

ASBESTOS AIR, LEAD AIR, AND LEAD DUST INVESTIGATION REPORT GOODFELLOW FEDERAL CENTER

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1.0 INTRODUCTION

1.1 Site Location and Description

The Goodfellow Federal Center is a former Army Ammunition Production Facility previously operated by the U.S. Army. The ownership and operation of the facility was transferred from the Army to the United States General Services Administration (GSA) on July 1, 1966. After the transfer was complete, GSA began the process of renovating the complex into a suburban office park. Currently, the facility comprises 23 buildings situated on 62.5 acres located east of Goodfellow Boulevard and southwest of Interstate 70, in suburban Saint Louis, Missouri.

1.2 General Scope of Services

OCCU-TEC, Inc. (OCCU-TEC) was contracted by GSA to conduct indoor air sampling and dust sampling throughout the facility in response to concerns regarding the possible spread of contamination previously identified in dirt crawlspaces on the facility by various consultants and documented at various reports prepared for the facility and submitted to GSA. These activities were completed under the OCCU-TEC GSA blanket purchase agreement GS-06-P-15-GX-A-7005, task order GS-P-06-16-GZ-7025.

Sampling activities were completed from February 10 through March 2, 2016 within the following buildings: 102E, 103, 103D, 103E, 103F, 104, 104E, 104F, 105, 105E, 105F, 105L, 106, 107, 110, 115 and 122B. All samples were collected in accordance with the methodologies detailed in the OCCU-TEC proposal and in accordance with the above stated task order. The proposed sampling scheme, numbers of samples, sample distribution and general methodology was developed by GSA. Sample locations and samples collected from discretionary locations were determined by OCCU-TEC field personnel during sampling activities.

2.0 SAMPLING METHODOLGY

2.1 Asbestos Air Sampling Methodology

Asbestos air samples were collected using 25 millimeter (mm) Transmission Electron Microscopy (TEM) cassettes with 0.45 micrometer (µm) mixed cellulose ester (MCE) filters using high-volume, electric, air sampling pumps in accordance with National Institute for Occupational Safety and Health (NIOSH) sampling methods. TEM refers to a method that uses an electron microscope to distinguish asbestos fibers from non-asbestos fibers. Samples duration and flow rates were determined using applicable methodology in an attempt to collect a minimum 1300 liter air sample without overloading the sample media. Air samples were submitted via FedEx under chain-of-custody to McCall and Spero Environmental, Inc. (McCall & Spero) in Louisville, Kentucky for independent analysis according to NIOSH Method 7402. McCall & Spero is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for "Airborne Asbestos Fiber Analysis" by TEM (NVLAP #101895-0).

2.2 Lead Air Sampling Methodology

Air sampling for lead was conducted in each building included in the investigation. The air samples for lead analysis were collected on 37 millimeter (mm) cassettes with 0.8 micrometer (µm) mixed cellulose ester (MCE) filters using powered air sampling pumps in accordance with National Institute for Occupational Safety and Health (NIOSH) sampling methods. Samples were collected in coordination with TEM air samples and were collected in a method sufficient to collect a minimum sample volume of 400 liters. Air samples were submitted under chain-of-custody to Schneider Laboratories (Schneider) for independent analysis of lead according to NIOSH method 7082. Schneider is accredited by the American Industrial Hygiene Association (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP) identification number 100527.

2.3 Lead Dust Sampling Methodology

Lead dust sampling was completed using two sampling methods. For surfaces where the base material was porous (carpet, wood, rough porous concrete etc.) OCCU-TEC utilized microvacuum sampling methodology. For smooth nonporous surfaces (I-beams, handrails, window sills, etc.) OCCU-TEC utilized lead dust wipe sampling methodology.

2.3.1 Micro-Vacuum Sampling

Lead Micro-vacuum samples were collected in accordance with ASTM standard D7144-05a (reapproved in 2011): Standard Practice for Collection of Surface Dust by Micro-vacuum Sampling for Subsequent Metals Determination. Samples were collected using an low flow sampling pump calibrated between 2 and 3 liters per min and 100 square centimeter (100 cm²) sampling templates. Samples were collected on commercially purchased micro-vacuum sample cassettes with a 0.8 micron filter as prescribed by the method. Samples were collected for duration of approximately one minute. By sweeping a 100 square centimeter template in a orthogonal pattern. After collection, sample cassettes were collected and delivered to Schneider Laboratories under chain of custody for independent analysis. Dust samples were submitted to Schneider Laboratories for lead according to Environmental Protection Agency (EPA) method SW846 350B/7420.

2.3.2 Lead Dust Wipe Sampling

Dust wipe sampling was conducted in accordance with ASTM Standard E1728-16: Standard Practice for Collection of Settled Dust Samples Using Wipe Sampling Methods for Subsequent Lead Determination. ASTM Standard E1728-16 is consistent with the methodology described in the Housing and Urban Development Guidelines and 40 CRF 745.63. Dust wipe sampling for lead was conducted on horizontal surfaces in each building included in the investigation. The dust wipe samples were collected using dedicated Ghost Wipes dust wipe cloths. Each dust wipe cloth was pre-moistened and individually wrapped. The horizontal surfaces selected for sampling consisted of areas that appeared to have consistent dust distribution. Areas not subject to regular cleaning were selected when available. Other surfaces included: desks; table tops; file cabinets; window sills. Each sample was collected by wiping in a back and forth "S" pattern over a measured sampling area of approximately one square foot (1 SF), folding the wipe in half again with the collected dust side folded inward, and repeat the wiping procedure one more time, concentrating on collecting settled dust from all corners within the selected surface area. Then the wipe was folded over itself and the area was wiped again in a direction perpendicular to the first wipe orientation followed by a perimeter wipe of the surface area. The wipe samples were

then placed into labeled, clean laboratory-supplied plastic centrifuge tubes with screw on caps. Dust wipe samples were submitted to Schneider Laboratories for lead according to Environmental Protection Agency (EPA) method SW846 350B/7420.

2.4 Sample Analysis and Results Evaluation

The proposed sampling scheme, numbers of samples, sample distribution and general methodology was developed by GSA. Sample locations and samples collected from discretionary locations were determined by OCCU-TEC field personnel on-site.

The criteria for the evaluation of sample results was determined by GSA and provided to OCCU-TEC. The sample results for the investigation were compared to the following criteria:

- Asbestos in air = 70 s/mm^2
- Lead in air = 30 ug/m^3
- Settled lead on surfaces = 200 ug/ft²

The above target levels for evaluation of data were derived by GSA from the EPA clearance level for asbestos TEM samples (AHERA 40 CFR part 63), and the OSHA action limit for lead in air (OSHA 1926.62) and OSHA lead level used for the decontamination of industrial hygiene facilities outlined in OSHA instruction CPL 2-2.58 (lead dust). As previously stated, these target values were determined by GSA and do not reflect the opinion of OCCU-TEC.

2.5 Quality Assurance/Quality Control

Quality Assurance and Quality Control (QA/QC) was accomplished using several methods that are in general conformance with the accepted sample methodology noted above. Calibration of all air pumps for samples collected was accomplished utilizing a secondary calibration method (rotameter). Each rotameter utilized for calibration in the field was calibrated utilizing a primary calibrator (Bios Drycal Model DC LITE Calibrator) prior to the start of field activities. Documentation of the primary calibration is maintained at OCCU-TECs office in accordance with applicable state and federal regulations. Every pump was pre and post calibrated in accordance with the applicable sampling methodology.

Field blank samples were maintained for each sample type collected for each building. In the event that detections were noted in samples collected, blanks were analyzed. In the event that all TEM samples analyzed for a given building indicated sample results below the laboratory detection limit, blank TEM samples for that building and type of sample were not analyzed.

In accordance with the contract between OCCU-TEC and GSA, a Z-Test was completed for TEM samples collected during this assessment. The Z-Test samples were recorded in the sample scheme and numbering for building 110 and are reported in the table below.

Z-Test Sample Results							
Sample ID	Result (structures/mm ²)						
110-AA-031	<17.7						
110-AA-032	<17.7						
110-AA-033	<17.7						
110-AA-034	<17.7						
110-AA-035	<17.7						

All samples were analyzed by properly trained and certified laboratories for the sample type and analysis type requested. Samples were shipped under proper chain of custody documentation. Each laboratory maintains a QA/QC process for the sample method which is available from the laboratory upon request.

3.0 BUILDING SAMPLE COLLECTION

3.1 Building 102E

In Building 102E, OCCU-TEC collected a total of nine (9) sets of air samples, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from each floor. Sample locations are identified by floor and column number, are noted in all documentation included in Appendix A and are visually identified on the attached maps. OCCU-TEC collected a total of fourteen (14) samples for analysis of lead dust. Seven (7) lead wipes samples and seven (7) micro-vacuum samples, including blanks, were collected from various locations and components located throughout the first and second floors of the building. Sample locations and components are noted in the tables and lab reports included in Appendix A and are visually identified on the attached maps.

3.2 Buildings 103, 103D, 103E, and 103F

In Building 103, OCCU-TEC collected a total of thirty-three (33) sets of air samples, including blanks, for Lead and Asbestos analysis. Twelve (12) sample sets were collected from each floor, five (5) sample sets were collected from the basement and three (3) sample sets were collected from penthouses. OCCU-TEC collected a total of twenty-six (26) samples for analysis of lead dust from Building 103. Thirteen (13) lead wipe samples and thirteen (13) micro-vacuum samples, including blanks, were collected from various locations and components on the first floor, second floor, basement and penthouses of the building.

In Building 103D, OCCU-TEC collected a total of twelve (12) air sample sets, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from each floor and three (3) sample sets were collected from the basement. OCCU-TEC collected a total of fourteen (14) samples for analysis of lead dust from Building 103D. Seven (7) lead wipe samples and seven (7) micro-vacuum samples, including blanks, were collected from various locations and components on the first and second floors of the building.

In Building 103E, OCCU-TEC collected a total of twelve (12) air sample sets, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor, three (3) samples sets were collected from the second floor, and four (4) samples sets were collected from the basement. OCCU-TEC collected a total of sixteen (16) samples for analysis of lead dust from Building 103E. Seven (7) lead wipe samples and nine (9) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor, second floor and basement of the building.

In Building 103F, OCCU-TEC collected a total of nine (9) air sample sets, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor and four (4) sample sets were collected from the basement. OCCU-TEC collected a total of fourteen (14) samples, including blanks, for analysis of lead dust. Seven (7) lead wipe samples and seven (7) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor and basement of the building.

3.3 Buildings 104, 104E, and 104F

In Building 104, OCCU-TEC collected a total of forty-four (44) sets of air samples, including blanks, for Lead and Asbestos analysis. Sixteen (16) sample sets were collected from each floor, six (6) sample sets were collected from the basement and five (5) sample sets were collected from penthouses. OCCU-TEC collected a total of forty-three (43) samples for analysis of lead dust from Building 104. Nineteen (19) lead wipe samples and twenty-four (24) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor, second floor, basement, and penthouses of the building.

In Building 104E, OCCU-TEC collected a total of twelve (12) air sample sets, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor, three (3) sample sets of each were collected from the second floor, and four (4) sample sets of each were collected from the basement. OCCU-TEC collected a total of seventeen (17) samples for analysis of lead dust from Building 104E. Seven (7) lead wipe samples and ten (10) microvacuum samples, including blanks, were collected from various locations and components throughout the first floor, second floor and basement of the building.

In Building 104F, OCCU-TEC collected a total of twelve (12) sets of air samples, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor, three (3) sample sets from the second floor, and four (4) sample sets from the basement. OCCU-TEC collected a total of sixteen (16) samples for analysis of lead dust from Building 104F. Six (6) lead wipe samples and ten (10) micro-vacuum samples, including blanks, were collected from various locations and components located throughout the first floor, second floor and basement of the building.

3.4 Buildings 105, 105E, 105F, and 105L

In Building 105, OCCU-TEC collected a total of forty-five (45) sets of air samples, including blanks, for Lead and Asbestos analysis. Seventeen sets of air samples on the first floor, sixteen (16) sample sets second floor, five (5) sample sets were collected from the penthouses and six (6) sample sets were collected from basement. OCCU-TEC collected a total of forty-three (43) samples for analysis of lead dust from Building 105. Nineteen (19) lead wipes samples and twenty-four (24) micro-vacuum samples, including blanks, were collected from various locations and components located throughout the building.

In Building 105E, OCCU-TEC collected a total of eleven (11) sets of air samples, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor, three (3) sample sets were collected from the second floor and three (3) sample sets were collected from the basement. OCCU-TEC collected a total of seventeen (17) samples for analysis of lead dust from Building 105E. Seven (7) lead wipe samples and ten (10) microvacuum samples, including blanks, were collected from various locations and components throughout the first floor, second floor, and basement of the building.

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In Building 105F, OCCU-TEC collected a total of eight (8) sets of air samples, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor and three (3) sample sets from the second floor. OCCU-TEC collected a total of fourteen (14) samples for analysis of lead dust from Building 105F. Seven (7) lead wipe samples and seven (7) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor and second floor of the building.

In Building 105L, OCCU-TEC collected a total of six (6) sets of air samples, including blanks, for Lead and Asbestos analysis. OCCU-TEC collected a total of eight (8) samples for analysis of lead dust from Building 105L. Four (4) lead wipe samples and four (4) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor of the building.

3.5 Building 106

In Building 106, OCCU-TEC collected a total of three (3) sets of air samples, including blanks, for Lead and Asbestos analysis. OCCU-TEC collected one (1) sample for analysis of lead dust from Building 106.

3.6 Building 107

In Building 107, OCCU-TEC collected a total of twelve (12) sets of air samples, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor, three (3) sample sets from the second floor and four (4) sample sets were collected from the basement. OCCU-TEC collected a total of sixteen (16) samples for analysis of lead dust from Building 107. Nine (9) lead wipe samples and seven (7) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor, second floor and basement of the building.

3.7 Building 110

In Building 110, OCCU-TEC collected a total of thirty (30) sets of air samples, including blanks, for Lead and Asbestos analysis. Twelve (12) sample sets were collected from the first floor, twelve (12) sample sets from the second floor and five (5) sample sets were collected from the basement. OCCU-TEC collected a total of thirty-five (35) samples for analysis of lead dust from Building 110. Sixteen (16) lead wipe samples and nineteen (19) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor, second floor and basement of the building.

3.8 Building 115

In Building 115, OCCU-TEC collected a total of nine (9) sets of air samples, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor and four (4) sample sets were collected from the basement. OCCU-TEC collected a total of eight (8) samples for analysis of lead dust from Building 115. Two (2) lead wipe samples and six (6) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor and second floor of the building.

3.9 Building 122B

In Building 122B, OCCU-TEC collected a total of nine (9) sets of air samples, including blanks, for Lead and Asbestos analysis. Four (4) samples sets were collected from the first floor and four (4) sample sets were collected from the basement. OCCU-TEC collected a total of five (5) samples for analysis of lead dust from Building 122B. Two (2) lead wipe samples and three (3) micro-vacuum samples were collected from various locations and components throughout the first floor and second floor of the building.

4.0 SAMPLE RESULTS

4.1 Building 102E

All air samples collected from Building 102E were below the applicable laboratory detection limit for the analysis method. All of the lead dust samples collected were below the laboratory detection limit with the exception of lead wipe samples 102E-PbW-003, 102E-PbW-004, and 102E-PbW-006. Sample 102E-PbW-003 collected from the top of a light fixture located on the first floor contained a detectable concentration of lead above the criteria established by GSA.

4.2 Buildings 103, 103D, 103E, and 103F

Of the samples collected from Building 103, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Eleven (11) of the dust samples collected contained concentrations of lead above the laboratory detection limit. Of the lead dust samples results with detections above the laboratory detection limit, four (4) lead wipe samples and three (3) lead micro-vacuum sample results were above the GSA established target level. These samples include 103-PbW-001, 103-PbW-002, 103-PbW-003, 103-PbW-012, 103-PbV-004, 103-PbV-005 and 103-PbV-012.

Of the samples collected from Building 103D, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected, one sample contained detectable concentrations of lead above the laboratory detection limit. The concentration detected in sample 103D-PbW-004 was below the target level established by the GSA.

Of the samples collected from Building 103E, all air sample concentrations reported were below the laboratory detection limit for the analysis conducted. Of the dust samples collected, five (5) samples contained detectable concentrations of lead above the laboratory detection limit. The concentrations detected in samples 103E-PbW-004, 103E-PbW-006, 103E-PbV-006 and 103E-PbW-008 were below the target level established by the GSA.

Of the samples collected from Building 103F, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected from building 103F, six (6) samples contained concentrations of lead above the laboratory detection limit. The concentrations detected in samples 103F-PbV-001, 103F-PbV-002, 103F-PbV-003, 103F-PbW-001, 103F-PbW-002, and 103F-PbW-003 were above the GSA established target level.

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4.3 Buildings 104, 104E, and 104F

Of the samples collected from Building 104, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Sixteen (16) of the dust samples collected contained concentrations of lead above the laboratory detection limit. Of the lead dust samples with concentrations above the laboratory detection limit, four (4) lead wipe samples and one (1) lead micro-vacuum sample contained detectable concentrations above the GSA established target level. These include samples 104-PbW-013, 104-PbW-014, 104-PbW-015, 104-PbW-018 and 104-PbV-020.

Of the samples collected from Building 104E, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected from 104E, eight (8) samples contained detectable concentrations of lead above the laboratory detection limit. Of the samples collected with concentrations above the laboratory detection, samples 104E-PbW-003, 104E-PbW-006, 104E-PbV-004, 104E-PbV-007 and 104E-PbV-008 were detected in concentrations above the GSA established target levels.

Of the samples collected from Building 104F, all air sample concentrations reported were below the laboratory detection limit for the analysis conducted. Of the dust samples collected, five (5) samples contained concentrations of lead above the laboratory detection limit. The concentrations in samples 104F-PbW-005, 104F-PbV-001, 104F-PbV-002 and 104F-PbV-004 were above the GSA established target levels.

4.4 Buildings 105, 105E, 105F, and 105L

Of the samples collected from Building 105, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Fifteen (15) of the dust samples collected contained concentrations of lead above the laboratory detection limit. Of the lead dust samples with detections above the laboratory detection limit, three (3) lead wipe samples and six (6) lead micro-vacuum sample results were above the GSA established target level.

Of the samples collected from Building 105E, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected from 105E, two (2) samples contained concentrations of lead above the laboratory detection limit. Of the samples collected with concentrations above the laboratory detection sample 105E-PbW-002 was detected at a concentration above the GSA established target levels.

Of the samples collected from Building 105F, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected, two (2) samples contained concentrations of lead above the laboratory detection limit. The concentration in sample 105F-PbW-003 was above the GSA established target levels.

Of the samples collected from Building 105L, all air sample and dust sample results were below the laboratory detection limit for the analysis method.

4.5 Building 106

Of the samples collected from Building 106, all air sample concentrations reported were below the laboratory detection limit for the analysis method. The dust sample collected contained a detectable concentration of lead above the laboratory detection limit and the GSA established target level.

4.6 Building 107

Of the samples collected from Building 107, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected, three (3) samples contained concentrations of lead above the laboratory detection limit. All concentrations of lead in dust samples were below the GSA established target levels.

4.7 Building 110

Of the samples collected from Building 110, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected from 110, nine (9) samples contained concentrations of lead above the laboratory detection limit. Of the samples collected with concentrations above the laboratory detection limit, samples 110-PbW-013, 110-PbW-014, 110-PbW-015 and 110-PbV-018 were detected at concentrations above the GSA established target levels.

4.8 Building 115

Of the samples collected from Building 115, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected from Building 115, two (2) samples contained concentrations of lead above the laboratory detection limit. Of the samples collected with concentrations above the laboratory detection limit, sample 115-PbV-005 contained lead at a concentration above the GSA established target levels.

4.9 Building 122B

Of the samples collected from Building 122B, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected from Building 122B, three (3) samples contained concentrations of lead above the laboratory detection limit. Of the samples collected with concentrations above the laboratory detection limit, sample 122B-PbW-001 contained lead at a concentration above the GSA established target levels.

5.0 LIMITATIONS AND DEVIATIONS

Several limiting conditions were noted or observed during field sampling activities that caused changes to the initially planned sample locations and sample counts in each location. In some of the basements at the facility, adequate power to properly run the required pumps was either unavailable or the power outlet was in a deteriorated condition and was deemed 'unsafe' by the sampling technician. Water intrusion also limited the ability for technicians to enter and thus sample the space. In one instance a steam leak had caused the basement to fill with steam making sampling conditions unsafe. In a second instance, the sump pump in the basement had failed leading to approximately six inches of water on the basement floor. Additionally, water on concrete surfaces in basements often limited the ability of technicians to collect dust samples. Some areas of the facility were of a secure nature and access to these areas was prohibited by the tenant.

This report is prepared for the sole use of GSA, who may rely on this report under the terms and conditions agreed to by the blanket purchase agreement and issued task order. Reliance to other parties is prohibited without OCCU-TEC's express written consent and in the event reliance is issued to other parties, said parties are bound by the terms and conditions detailed in the original proposal and agreed upon by GSA.

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6.0 SIGNATURES

OCCU-TEC appreciates the opportunity to provide investigation services to GSA. If you have any questions regarding this report, please contact us at (816) 231-5580. Thank you for choosing OCCU-TEC.

Sincerely,



Kevin Heriford Project Manager



Jeff Smith Senior Project Manager, Lead RA (QA/QC)

APPENDIX A

SAMPLE RESULTS SUMMARY TABLE, SAMPLE LOCATION MAPS, LABORATORY ANALYTICAL RESULTS AND CHAIN OF CUSTODY DOCUMENTATION

BUILDING 102E

	BUILDING	G 102E		
	Asbestos TEM A	Air Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
102E-AA-001	1st Floor Column N-21	<15.2	s/mm²	70 s/mm ²
102E-AA-002	1st Floor Column N-25	<15.2	s/mm²	70 s/mm ²
102E-AA-003	1st Floor Column L-27	<15.2	s/mm²	70 s/mm ²
102E-AA-004	1st Floor Column P-26	<15.2	s/mm²	70 s/mm ²
102E-AA-005	2nd Floor Column N-21	<15.2	s/mm²	70 s/mm ²
102E-AA-006	2nd Floor Column P-23	<15.2	s/mm ²	70 s/mm ²
102E-AA-007	2nd Floor Column N-27	<15.2	s/mm²	70 s/mm ²
102E-AA-008	2nd Floor Column L-28	<15.2	s/mm²	70 s/mm ²
102E-AA-009	Blank	<15.2	s/mm ²	70 s/mm ²
	Lead Air S	amples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
102E-PbA-001	1st Floor Column N-21	<3.33	μg/m ³	30 μg/m ³
102E-PbA-002	1st Floor Column N-25	<3.51	μg/m³	30 μg/m ³
102E-PbA-003	1st Floor Column L-27	<3.93	μg/m³	30 μg/m ³
102E-PbA-004	1st Floor Column P-26	<4.03	μg/m³	30 μg/m ³
102E-PbA-005	2nd Floor Column N-21	<3.95	μg/m³	30 μg/m ³
102E-PbA-006	2nd Floor Column P-23	<4.65	μg/m³	30 μg/m ³
102E-PbA-007	2nd Floor Column N-27	<4.00	μg/m ³	30 μg/m ³
102E-PbA-008	2nd Floor Column L-28	<4.10	μg/m ³	30 μg/m ³
102E-PbA-009	Blank	<2.00	μд	30 μg/m ³
,	Lead Surface Dust	Wipe Samples	-	
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
102E-PbW-001	1st Floor Janitor Closet Floor	<10	μg/ft²	200 μg/ft ²
102E-PbW-002	1st Floor Break Room Shelf	<10	μg/ft ²	200 μg/ft ²
102E-PbW-003	1st Floor Light Fixture	266	μg/ft²	200 μg/ft ²
102E-PbW-004	2nd Floor Elevator Room Floor	113	μg/ft²	200 μg/ft ²
102E-PbW-005	2nd Floor South Floor	<10	μg/ft²	200 μg/ft ²
102E-PbW-006	2nd Floor South West Light Fixture	47.4	μg/ft²	200 μg/ft ²
102E-PbW-007	Blank	<10	μg	200 μg/ft ²
	Lead Surface Dust M	icro-vac Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
102E-PbV-001	1st Floor Office Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²
102E-PbV-002	1st Floor Office Carpet	<92.9	μg/ft²	200 μg/ft ²
102E-PbV-003	1st Floor Break Room Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²
102E-PbV-004	2nd Floor Lobby Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²
102E-PbV-005	2nd Floor Break Room Carpet	<92.9	μg/ft²	200 μg/ft ²
102E-PbV-006	2nd Floor Office Carpet	<92.9	μg/ft²	200 μg/ft ²
102E-PbV-007	Blank	<10	μg	200 μg/ft ²

s/mm² = structures per square millimeter

 $\mu g/m^3$ = micrograms per cubic meter

 μ g/ft² = micrograms per square foot

NO SAMPLING DUE TO ACTIVE STEAM LEAK



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE

PbW = LEAD WIPE SAMPLE
PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by:	JWH
GOODFELLOW MO0605 (102E) - Basement	SUB. DATE:	03/04/16
CLIENT NAME: GENERAL SERVICES ADMINISTRATION		
PROJECT NAME:	SCALE:	NTS
GOODFELLOW GS-P-16-16-GZ7025	916029	1 of 3





▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH				
GOODFELLOW MO0605 (102E) - 1st FLOOR	SUB. DATE: 03/04/16				
GENERAL SERVICES ADMINISTRATION					
PROJECT NAME:	SCALE:	NTS			
GOODFELLOW GS-P-16-16-GZ7025	916029	1 of 2			

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159642

 Matrix
 Wipe

 Received
 02/23/16

 Analyzed
 02/23/16

 Reported
 02/23/16

Project Goodfellow Bldg 102E

Location St Louis, MO **Number** 916029

Hambon	010020						
Sample ID	Cust. Sample ID	Location	Sample	Date			
Parameter		Method		Area	Total	Conc.	RL*
159642-001	102E-PbV-001	1st FL Office CT	02/16/	16			
Lead		EPA 7000B - Vacwipe / 305	0B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159642-002	102E-PbV-002	1st FL Office Carpet	02/16/	16			
Lead		EPA 7000B - Vacwipe / 305	0B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159642-003	102E-PbV-003	1st FL BkRm Ceiling Tile	02/16/	16			
Lead		EPA 7000B - Vacwipe / 305	0B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159642-004	102E-PbV-004	2nd FL Lobby Ceiling Tile	02/16/	16			
Lead		EPA 7000B - Vacwipe / 305	0B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159642-005	102E-PbV-005	2nd FL Break Rm Carpet	02/16/	16			
Lead		EPA 7000B - Vacwipe / 305	0B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159642-006	102E-PbV-006	2nd FL Office Carpet	02/16/	16			
Lead		EPA 7000B - Vacwipe / 305	0B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159642-007	102E-PbV-007	Blank	02/16/	16			

EPA 7000B - Vacwipe / 3050B

Analyst IH 159642-02/23/16 08:03 PM

Lead

(b) (6)

10.0 µg/wipe

Reviewed By **Sultan Al-Johani**Metals Team Leader

<10.0 µg/wipe



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com



V:\159\159642

Submitting Co.	DCCU-TE	C Inc.			Lab WO#		·	Phone	816-230	5580			
151 N. Mulberry			·		Acct#	3505		Fax / Email	816-994	-3470 /j	jayhurst@occ	cutec.com	
131 N. Maiderry	Dilve, Ju	ille 275			**State of			**Cert. Required		Yes	⊠ No		
ansas City, MO	64116		nidad		Collection	Missouri	<u> - 270,74,574</u> 	Service Services	34 - 174 - 174 - 274		s. <u>18 (18 148) (18 14</u>	<u>je jalviji jaloj.</u> Jaka paakaa	ool
roject Name:	Goodfel	low	D, 4000	n 102 R	:	Specia	Instruction	s linciude re	equests to	rspeciai	reporting or	uala paukay	leal
roject Location:	St. Loui	s, MO											
roject Number:	916029												
O Number:				1X-									
Turn Around Tir	ne (TAT)	Ma	trix / Sample	Type (Select ONE)			Tes	ts / Analytes	(Select A	LL that A	(pply)		<u> </u>
2 hours*				n should be of SAME		Asbestos in	Air	Asbe	stos in Bu	lk		letals-Total	· · · · · · · · · · · · · · · · · · ·
Same day* †		matrix t	<u>ype.</u> Use addi	tional forms as needed.	☐ PCM	/I (NIOSH 740	0)	PLM			⊠ Lead		
1 business day	* †	⊠ Air		Solid .	☐ TEN	(AHERA)		PLM (Poir	t Count)		☐ RCRA M	etals	
2 business day	s* †	☐ Aquec	ous	☐ Waste	TEN	/ (EPA Level	1)	PLM (Qua	litative onl	y)		TCLP	3 S. 10
business day	's* †	☐ Bulk			M	iscellaneous	Tests	NYELAP			TCLP/L		
5 business day	rs* †	☐ Hi-Vol	Filter (PM10)		☐ Tota	al Dust (NIOS	1 0500)	CAELAP	(Point Cou	nt)		CRA Metals	
Not available for a	il tests	☐ Hi-Vol	Filter (TSP)	Compliance	Res	p. Dust (NIO	SH 0600)	TEM (Cha	atfield)		L TCLP / F	ull (w/ organ	iCS) 10 day
A job received pas				⊠ Wipe	1 .	a - FTIR (NIC	•····•-,	<u> </u>				licrobiology	- 11 12
† will begin its TAT next business day		☐ Paint		Wipe, Composite		a - XRD (NIC	SH 7500)	-	BESTOS		BACT (N		
Schedule rush orga		Sludg	e (Micro-Vac Dust		Other		TYPE OF RE	ESPIRATO	R	Mold Direct Exam		
advance		□ _{Soil}		<u> </u>	<u> </u>			USED:			Flow Rate ³ Tota		
0	5/0/80/986)ate	Time	Sample Ide (Employee, SSN, Bl			Wiped Area (ft²)	pH / Temp *	Start	me ² Stop		- Stop	Total ⁴ : Air
Sample #		npled** 6-16	Sampled** <i>I \$D O</i>	Ist Fl - Office			100 cm2	10110	- 01011	City		3336	
-00	30	l de la	ī	1st F1 - Offi			100cm2						
-00	93			Ist Fl - Bk Rn		<u> </u>	100cm2						
-00	4			2.1 F1 Lobb			100 1						
-00	5			LndFl Break	Rm C	erpet	100cm2						
-00	6	ا	V	2-dFI OFF	ne C	a-pet	100cm2					ļ.	
~00	7			Blank				:					
													ļ
and the the think of the think													
1	Type: A⊐Ar	ea B=Blank	P=Personal E≕l	t Excursion ² Beginning/Enc	of Sample	Period ³ Pump	Calibration in	Liters/Minute	Volume in	Liters [tim	ne in min × flow	in L/min]	
	All soil and due to	aqueous sa a lack of san	mples must be s nple quantity, wil	ent in adequate quantity for I lead to a disclaimer on the	ouplicate and report. All p	arysis to be perfo roblem jobs with	omea per EPA out customer n	requirements. esponse held o	railure to pe ver 30 days	will be void	iea ana disposed	OF.	
	Sampled	by SMI	tL	Relinquisi	ned to lai	by K	2		3	6	☐ Retu ☐ Disp	ample Disp m to Sender osal by lab	(Shipping fe
S. ATURE	(b) (6)			SIGNATURE (b) (6	5)							ne for excessive v	
DATE / TIME _	2-16	-16		DATE/TIME 2-2	1-16	1600	-	(6)			☐ FX	UPS DB	
Sample retu				☐ Ice CI_ Chain-of-Custody documer	tation contin	R S		eceive a physi		f report.	WB:	108	4

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

CustomerOCCU-TEC, INC. (3505)Address4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159641

 Matrix
 Wipe

 Received
 02/23/16

 Analyzed
 02/23/16

 Reported
 02/23/16

Project Goodfellow-Bldg 102E

Location St Louis, MO **Number** 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159641-001	102E-W-001	1st Fl Jan Closet Fl	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159641-002	102E-W-002	1st Fl Break Rm Shelf	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159641-003	102E-W-003	1st Fl Light Fixture	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	266 µg/wipe	266 μg/ft2	10.0 μg/ft2
159641-004	102E-W-004	2nd Elev Rm Fl	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	113 µg/wipe	113 μg/ft2	10.0 μg/ft2
159641-005	102E-W-005	2nd S Floor	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159641-006	102E-W-006	2nd Light Fixture	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	47.4 μg/wipe	47.4 μg/ft2	10.0 μg/ft2
159641-007	102E-W-007	Blank	02/16/16			
Lead		EPA 7000B / 3050B		<10.0 µg/wipe		10.0 μg/wipe

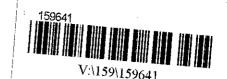
Analyst OHE 159641-02/23/16 04:36 PM (b) (6)

Reviewed By **Marti Baird**Analyst



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com



Submitting Co. Lab WO# Phone OCCU-TEC Inc. 816-230-5580 Fax / Acct# 4151 N. Mulberry Drive, Suite 275 Email 816-994-3470 / jayhurst@occutec.com **State of **Cert. Yes Yes X No Kansas City, MO 64116 Collection Missouri Required Goodfellow - Bldg LOZF Project Name: Special Instructions [include requests for special reporting or data packages] Project Location: St. Louis, MO Project Number: 916029 PO Number **Turn Around Time (TAT)** Matrix / Sample Type (Select ONE) Tests / Analytes (Select ALL that Apply) ☐ 2 hours* All samples on form should be of SAME Asbestos in Air Asbestos in Bulk Metals-Total matrix type. Use additional forms as needed. ☐ Same day* † PCM (NIOSH 7400) PLM. X Lead X Air 🔲 1 business day* † ☐ Solid TEM (AHERA) PLM (Point Count) RCRA Metals 2 business days* † ☐ Aqueous ☐ Waste TEM (EPA Level II) PLM (Qualitative only) TCLP X 3 business days* † Buik ☐ Wastewater ■ NYELAP Miscellaneous Tests ☐ TCLP / Lead 5 business days* † Hi-Vol Filter (PM10) Water Drinking ☐ Total Dust (NIOSH 0500) CAELAP (Point Count) TCLP / RCRA Metals * Not available for all tests ☐ Hi-Vol Filter (TSP) ☐ Compliance Resp. Dust (NIOSH 0600) TEM (Chatfield) TCLP / Full (w/ organics) 16 day □ oii A job received past 3PM † will begin its TAT the **⊠** Wipe Silica - FTIR (NIOSH 7602) Microbiology ☐ Paint next business day ☐ Wipe, Composite Silica - XRD (NIOSH 7500) FOR ASBESTOS AIR: ☐ BACT (MPN & P/A) Micro-Vac Dust ☐ Sludge Schedule rush organics, multi-☐ Mold Direct Exam Other TYPE OF RESPIRATOR etals & weekend tests in advance. USED: Date Time Flow Rate³ Sample Identification Wiped Time² pH / Total4 Sample # (Employee, SSN, Bldg, Material, Type1) Sampled* Sampled** Area (ft2) Temp * Start Stop Start Stop Air 102 E - W-001 2-16-16 ISOU Jan Closet Floor 155 Break Rm Shelf -W-002 1 SF Light Fixture SE -W-003 Eleu Rm Floor SF -W-004 SF South Floor -W-009 Light Fixture SF -W-006 -W-007 Blank Type: A=Area B=Blank P=Personal E=Excursion 2Beginning/End of Sample Period 3Pump Calibration in Liters/Minute 4Volume in Liters [time in min × flow in L/min] All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of Sampled by Sample Disposal Relinquished to lab by Return to Sender (Shipping fees) NAME Disposal by lab (b) (6) JURE Shipping Methods (b) (6) 2-16-DATE / TIME 2-2/-UPS USM DATE / TIME ☐ Sample return requested ☐ Ambient temp ☐ Ice R S X * Temperature taken with IR Gun A. Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505) Address:

4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn:

Project: Goodfellow-Bldg 102E

-Location: St Louis, MO Number: 916029

Order #: 159640

Matrix Air

Received 02/23/16 Analyzed 02/23/16 Reported 02/24/16

PO Number:

Mullibel.	910029			FO NU	iiibei.		
Sample ID	Cust. ID	Location	Date	Time	Flow	Volume)
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
159640-001	102E-PbA-001	1st Fl Column N21	02/16/16	180 min	3.34 L/mir	n 601 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.33 µg/m3	<1.25 µg/m3
159640-002	102E-PbA-002	1st FI Column N25	02/16/16	171 min	3.34 L/mir	n 571 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.51 µg/m3	<1.25 µg/m3
159640-003	102E-PbA-003	1st FI Column L27	02/16/16	167 min	3.05 L/mir	n 509 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.93 µg/m3	<1.37 µg/m3
159640-004	102E-PbA-004	1st FI Column P26	02/16/16	163 min	3.05 L/mir	n 497 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.03 µg/m3	<1.37 µg/m3
159640-005	102E-PbA-005	2nd Fl Column N21	02/16/16	166 min	3.05 L/mir	n 506 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.95 µg/m3	<1.37 µg/m3
159640-006	102E-PbA-006	2nd Fl Column P23	02/16/16	141 min	3.05 L/mir	n 430 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.65 µg/m3	<1.37 µg/m3
159640-007	102E-PbA-007	2nd Fl Column N27	02/16/16	164 min	3.05 L/mir	n 500 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.00 µg/m3	<1.37 µg/m3
159640-008	102E-PbA-008	2nd Fl Column L28	02/16/16	160 min	3.05 L/mir	n 488 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.10 μg/m3	<1.37 µg/m3
159640-009	102E-PbA-009	Field Blank	02/16/16				
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	! ! !	

Analyst: IH

159640-02/24/16 09:31 AM

Reviewed by: Apisola Kasali

Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter

 $0.0500 \text{ mg/m}^3 [50.0 \text{ } \mu\text{g/m}^3]$ Lead

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

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V:\159\159640

Submitting Co.	C inc.		Lab WO#			Phor	e 816-2	230-5580		· · · · · · · · · · · · · · · · · · ·	
4151 N. Mulberry Drive, S	uite 275		Acct#	3505		Fax Ema	1	94-3470 /	iavhurst@c	ccutec.co	100
Kansas City, MO 64116			**State of	Missouri	7 30 4 5 5 4 5 5 7	**Cei Requi	t	☐ Yes	X No		
	llow - Bla				cial Instruction	22.2521 <u>2</u> 2281-2234.08	L. XX New York	for encolai	ennortine	nasevija graja	<u> </u>
Project Location: St. Loui		. 3 . 0 2 12			out mondon	one fine and	requesa	i ioi special	reporting t	or data pac	Kagesj
Project Number: 916029		· · · · · · · · · · · · · · · · · · ·				~.	711				·
PO Number:				<u> </u>	<u> </u>			****	· · · · · · · · · · · · · · · · · · ·		
Turn Around Time (TAT)	Matrix / Samn	le Type (Select ONE)	T ::		<u> </u>				· · · · · · · ·		
2 hours*	All samples on fo	orm should be of SAMF		Asbestos i		1	es (Select estos in l	LALL that A		Maria T. 4	<u> </u>
☐ Same day* †	matrix type. Use a	dditional forms as needed.		NIOSH 7		☐ PLM	icalos III	our e	ズ Lead	Metals-Tot	<u>al </u>
1 business day+ †	⊠ A	Solid	☐ TEM	(AHERA)		PLM (P	oint Count)	RCRA	Vietais	•
2 business days* †	Aqueous	☐ Waste	☐ TEM	(EPA Leve	ł II)	PLM (Q	ualitative o	only)		TCLP	and the second
★ 3 business days* †	Bulk	☐ Wastewater		scellaneou		☐ NYELAI			TCLP /		
5 business days*† Not available for all tests	☐ Hi-Vol Filter (PM1) ☐ Hi-Vol Filter (TSP)		i —	Dust (NIO		CAELAI		ount)	i	RCRA Meta	
A job received past 3PM	Oil	Compliance Wipe	1	Dust (NIC	OSH 0600) OSH 7602)	TEM (C	natfield)		LI TCLP /	Full (w/ orga	anics) 10 day
† will begin its TAT the next business day	☐ Paint	☐ Wipe, Composite	i—	: - F (EOR A	SBESTO	S AID:	_	Microbiolog	
Schedule rush organics, multi-	☐ Sludge	Micro-Vac Dust			3 1 7 3 3 3	TYPE OF F			☐ BACT (I	•	,
etals & weekend tests in advance.	□ _{Soil}	. 🗖	<u> </u>			USED:	1,72				,
- Carrier and the carrier and	ate Time pled** Sampled**	Sample Iden (Employee, SSN, Bld		n T1\	Wiped	pH/		Γime ²		v Rate ³	Total ⁴
102 E-PBA-001		1st Fl Colum		1_21	Area (ft²)	Temp *	Start 842	Stop 1142	3.63	3.05	601.2
-002		1st FI Col		1-25			0901	1152	3.63	3.05	571.19
-003		1st FI (s)	1	27			0912	 - -	3.05	3.05	509.3
-004		IstFI Col	P	-26			0921	1204	3.05	3,05	497.
-005		2ndF/ Col	N	-21			939	1225	3.05	3,05	506.
-006	V	2nd Fl Col	<i>P</i> -	23			9:53	1214	3.05	3.05	430.
-007		2-171 - Col	N	-27			100]	1248	2.05	3.05	500.2
-008		2ndfl Col	1-1	28			1009	1249	3.65	3.05	488
-009		FICIS BI	la_K					_\$35m		-	
		ixcursion ² Beginning/End of Sent in adequate quantity for duplication a disclaration on the modern									
) q	isaa is a alooidiinor on the repo	it. All proble	en jous wimo	ut customer res	ponse held ovi	er 30 days v	norm a sample vill be voided a	nd disposed o	of.	:
Sampled by)	Relinquished	to lab by		2	-25	10	-	Return	mple Disp to Sender al by lab	(Shipping fees)
ATURE (b) (6) DATE / TIME 2-16-16		BIGNATURE (b) (6)) c	10001	(b)	(6)	· .		Shi	for excessive we oping Meti	hods
I Sample return requested	****	DATE/TIME Z-16-		1800					HD HD	DUPS D	JUSM
Temperature taken with IR Gun A.		☐ Ice CI		R 🗖 S 🔁 🔾	K X		W-1-1		WB:	200	W



1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 26, 2016

Attention:

Jay Hurst

OCCU-TEC, Inc.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2236OCCA.1

Goodfellow-Bldg 102 E. Project

OCC#916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 23, 2016. These samples represent the TEM samples for the Goodfellow- Bldg 102 E. Project - OCC#916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eight (8) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S. TEM Laboratory Director



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow- Bldg 102 E. Project - OCC#916029

McCall and Spero Project No: MSE-2236OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I01	102E-AA-001	NSD	NA	1473.15	0.0040	BDL (0.0040)*	BDL (15.2)*
I02	102E-AA-002	NSD	NA	1343.32	0.0044	BDL (0.0044)*	BDL (15.2)*
I03	102E-AA-003	NSD	NA	1344.35	0.0044	BDL (0.0044)*	BDL (15.2)*
I04	102E-AA-004	NSD	NA	1320.20	0.0044	BDL (0.0044)*	BDL (15.2)*
I05	102E-AA-005	NSD	NA	1352.4	0.0043	BDL (0.0043)*	BDL (15.2)*
106	102E-AA-006	NSD	NA	1360.5	0.0043	BDL (0.0043)*	BDL (15.2)*
I07	102E-AA-007	NSD	NA	1336.30	0.0044	BDL (0.0044)*	BDL (15.2)*
108	102E-AA-008	NSD	NA	1296.05	0.0045	BDL (0.0045)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

Date: 22616 TEM Laboratory Director:

^{*} Single fiber detection limits are used when no structures are detected.



1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: O	CCU-TEC INC.		Telephone #	816-23	I-5580 Fax	#: 816-994	-3470
Contact: Jay Hurst			_ Client Pr	oject Numb	er: 916029	9	
Relinquished by	Relinquished by: Date: Time:						
Written Report	To: jayhurst@occu	·	@occutec.	com			
Project Name:	Goodfellow > Blo	19 102E					
Turn-Around T	ime: (Circle One) 4 Ho	our 6-8 Hour(same day	() 24 Hour	2/3)Day	4-5 Day Wee	kend Rush Af	ter Hour Rush
To alchomo a	Üş'e:Qillik						
MSE Project #: Samples Receive Sample To Be A	MSE- (XMV) 223 ed by: (b) (6)		Date: _	ct 02/23	3/10	Time: <u>10</u>	30 Ag1
	red By: (b) (6)	Eldi, Elij (ocile)	Method	urdett	& Rood		
Samples Analyz			Date:	126	16		
Client ID Number	Sample Loca (I)inside(O)outside(B)blank		Start Time	Stop Time			
102 E -AA-001	IstFl Column	N-21	339	1142	183	8,05	1473.15
-002	1stFl (oi	N-25	9:00	1152	172	7.81	1343,32
003	1stfl Col	L-27	9:12	1159	167	8.05	1344.35
-004	1st Fl Cai	P-26	9:19	1203	164	8.05	1320,20
-005	2nd Fl Col	N-21	9:37	1225	177968	8.05	1384.6/
-006	2nd Fl Col	P-23	9:51	1240	17/169	8.05	1326,55
-007	2nd Fl Col	N-27	9:58	1244	166	805	1336.30
-008	Go 2ndf Col	L-28	10:07	1248	161	8.05	1296,05
-009	Field Blank			-		**	
							<u> </u>
			ļ <u>.</u>				·
			·				+ -
	-	-					-
							

Results Transmitted/Date: Fax/Phone By:

BUILDING 103, 103D, 103E, 103F

BUILDING 103				
	Asbestos TEM Ai	ir Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103-AA-001	1st Floor Column F-1	<15.2	s/mm ²	70 s/mm ²
103-AA-002	1st Floor Column J-3	<15.2	s/mm ²	70 s/mm ²
103-AA-003	1st Floor Column F-5	<15.2	s/mm ²	70 s/mm ²
103-AA-004	1st Floor Column B-10	<15.2	s/mm ²	70 s/mm ²
103-AA-005	2nd Floor Column C-2	<15.2	s/mm ²	70 s/mm ²
103-AA-006	2nd Floor Column B-6	<15.2	s/mm ²	70 s/mm ²
103-AA-007	2nd Floor Column G-2.5	<15.2	s/mm ²	70 s/mm ²
103-AA-008	2nd Floor Column G-6.5	<15.2	s/mm ²	70 s/mm ²
103-AA-009	2nd Floor Colum H-13	<15.2	s/mm ²	70 s/mm ²
103-AA-010	2nd Floor Column E-20	<15.2	s/mm ²	70 s/mm ²
103-AA-011	2nd Floor Column B-27	<15.2	s/mm ²	70 s/mm ²
103-AA-012	3-AA-012 Blank Not Analyzed			
103-AA-013	2nd Floor Column B-13	<15.2	s/mm ²	70 s/mm ²
103-AA-014	2nd Floor Column E-31	<15.2	s/mm ²	70 s/mm ²
103-AA-015	2nd Floor Column F-36	<15.2	s/mm ²	70 s/mm ²
103-AA-016	2nd Floor Column G-39	<15.2	s/mm ²	70 s/mm ²
103-AA-017	2nd Floor Column F-33	<15.2	s/mm ²	70 s/mm ²
103-AA-018	1st Floor Column H-32	<15.2	s/mm ²	70 s/mm ²
103-AA-019	1st Floor Column D-32	<15.2	s/mm ²	70 s/mm ²
103-AA-020	1st Floor Column D-36	<15.2	s/mm ²	70 s/mm ²
103-AA-021	1st Floor Column H-36	<15.2	s/mm ²	70 s/mm ²
103-AA-022	1st Floor Office Column B-27	<15.2	s/mm ²	70 s/mm ²
103-AA-023	1st Floor Mechanical Room Column B-21	<15.2	s/mm ²	70 s/mm ²
103-AA-024	1st Floor Column J-32	<15.2	s/mm ²	70 s/mm ²
103-AA-025	1st Floor Column F-31	<15.2	s/mm ²	70 s/mm ²
103-AA-026	Center East Penthouse	<15.2	s/mm ²	70 s/mm ²
103-AA-028	North East Penthouse	<15.2	s/mm ²	70 s/mm ²
103-AA-029	North East Penthouse	<15.2	s/mm ²	70 s/mm ²
103-AA-031	Basement East	<15.2	s/mm ²	70 s/mm ²
103-AA-032	Basement East	<15.2	s/mm ²	70 s/mm ²
103-AA-033	Basement Middle	<15.2	s/mm ²	70 s/mm ²
103-AA-034	Basement Middle	<15.2	s/mm ²	70 s/mm ²
103-AA-035	Basement Middle	<15.2	s/mm ²	70 s/mm ²

BUILDING 103				
	Lead Air San	mples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103-PbA-001	1st Floor Column F-1	<3.31	$\mu g/m^3$	$30 \mu g/m^3$
103-PbA-002	1st Floor Column J-3	<3.31	$\mu g/m^3$	$30 \mu g/m^3$
103-PbA-003	1st Floor Column F-5	<3.31	$\mu g/m^3$	$30 \mu g/m^3$
103-PbA-004	1st Floor Column B-10	<3.31	$\mu g/m^3$	$30 \mu g/m^3$
103-PbA-005	2nd Floor Column C-2	<3.51	$\mu g/m^3$	30 μg/m ³
103-PbA-006	2nd Floor Column B-6	<3.31	$\mu g/m^3$	30 μg/m ³
103-PbA-007	2nd Floor Column G-2.5	<3.31	$\mu g/m^3$	30 μg/m ³
103-PbA-008	2nd Floor Column G-6.5	<3.31	μg/m³	30 μg/m ³
103-PbA-009	2nd Floor Colum H-13	<3.31	μg/m³	30 μg/m ³
103-PbA-010	2nd Floor Column E-20	<3.29	μg/m³	30 μg/m ³
103-PbA-011	2nd Floor Column B-27	<3.31	μg/m³	30 μg/m ³
103-PbA-012	Blank	<2.00	μg	30 μg/m ³
103-PbA-013	2nd Floor Column B-13	<2.68	μg/m³	30 μg/m ³
103-PbA-014	2nd Floor Column E-31	<2.73	$\mu g/m^3$	30 μg/m ³
103-PbA-015	2nd Floor Column F-36	<2.74	$\mu g/m^3$	30 μg/m ³
103-PbA-016	2nd Floor Column G-39	<2.78	$\mu g/m^3$	30 μg/m ³
103-PbA-017	2nd Floor Column F-33	<3.30	μg/m³	30 μg/m ³
103-PbA-018	1st Floor Column H-32	<2.48	μg/m³	$30 \mu g/m^3$
103-PbA-019	1st Floor Column D-32	<2.76	μg/m³	30 μg/m ³
103-PbA-020	1st Floor Column D-36	<3.60	μg/m³	30 μg/m ³
103-PbA-021	1st Floor Column H-36	<3.17	$\mu g/m^3$	30 μg/m ³
103-PbA-022	1st Floor Office Column B-27	<3.10	μg/m³	30 μg/m ³
103-PbA-023	1st Floor Mechanical Room Column B-21	<3.27	μg/m³	30 μg/m ³
103-PbA-024	1st Floor Column J-32	<3.29	$\mu g/m^3$	30 μg/m ³
103-PbA-025	1st Floor Column F-31	<3.27	μg/m³	30 μg/m ³
103-PbA-026	Center East Penthouse	<1.85	μg/m³	30 μg/m ³
103-PbA-028	North East Penthouse	<1.92	μg/m ³	30 μg/m ³
103-PbA-029	North East Penthouse	<1.95	μg/m³	30 μg/m ³
103-PbA-031	Basement East	<2.69	μg/m³	30 μg/m ³
103-PbA-032	Basement East	<2.72	μg/m³	30 μg/m ³
103-PbA-033	Basement Middle	<2.72	μg/m³	30 μg/m ³
103-PbA-034	Basement Middle	<2.73	μg/m³	30 μg/m ³
103-PbA-035	Basement Middle	<2.61	μg/m³	30 μg/m ³

BUILDING 103					
Lead Surface Dust Wipe Samples					
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level	
103-PbW-001	Basement Top of Equipment	3450	μg/ft²	200 μg/ft ²	
103-PbW-002	Basement Top of Pipe Jacket	426	μg/ft²	200 μg/ft ²	
103-PbW-003	Basement Stairwell Hand Rail	316	μg/ft²	200 μg/ft ²	
103-PbW-004	Penthouse 2 Floor	112	μg/ft²	200 μg/ft ²	
103-PbW-005	Penthouse 2 Floor	45.3	μg/ft²	200 μg/ft ²	
103-PbW-006	Penthouse 1 Floor	31.3	μg/ft²	200 μg/ft ²	
103-PbW-007	1st Floor Column G-4 Top of Light Fixture	180	μg/ft²	200 μg/ft ²	
103-PbW-008	1st Floor Column F-51 Top of Shelf	<10	μg/ft²	200 μg/ft ²	
103-PbW-009	2nd Floor Column B-10.5 Window Sill	<10	μg/ft²	200 μg/ft ²	
103-PbW-010	2nd Floor Column C-05 Top of Divider Wall	<10	μg/ft²	200 μg/ft ²	
103-PbW-011	2nd Floor Column H-27 Top of Shelf	<10	μg/ft²	200 μg/ft ²	
103-PbW-012	1st Floor Column B-21 Top of Air Handler	1440	μg/ft²	200 μg/ft ²	
103-PbW-013	Blank	<10	μg	200 μg/ft ²	
	Lead Surface Dust Micro	-vac Samples			
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level	
103-PbV-001	Basement Floor West	<92.9	μg/ft²	200 μg/ft ²	
103-PbV-002	Basement Ledge West	<92.9	μg/ft²	200 μg/ft ²	
103-PbV-003	Basement Top of Pipe	<92.9	μg/ft²	200 μg/ft ²	
103-PbV-004	Basement Stair East	525	μg/ft²	200 μg/ft ²	
103-PbV-005	Basement Northwest Concrete Pad	1160	μg/ft²	200 μg/ft ²	
103-PbV-006	Basement Tunnel West	<92.9	μg/ft²	200 μg/ft ²	
103-PbV-007	1st Floor Column G-05 Carpet	<92.9	μg/ft²	200 μg/ft ²	
103-PbV-008	1st Floor Column F-05 Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²	
103-PbV-009	2nd Floor Freight Elevator Floor	<92.9	μg/ft²	200 μg/ft ²	
103-PbV-010	2nd Floor Column C-06 Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²	
103-PbV-011	2nd Floor Column H-27 Top of Couch	<92.9	μg/ft²	200 μg/ft ²	
103-PbV-012	1st Floor Column B-21 Floor Near Grate	200	μg/ft²	200 μg/ft ²	
103-PbV-013	Blank	<10	μg	200 μg/ft ²	



▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH		
GOODFELLOW MO0606 (103) - PENTHOUSE	SUB. DATE: 03/04/16		
GENERAL SERVICES ADMINISTRATION			
PROJECT NAME:	SCALE: NTS		
GOODFELLOW GS-P-16-16-GZ7025	916029		



▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE

PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH		
GOODFELLOW MO0606 (103) - Basement	SUB. DATE: 03/04/16		
CLIENT NAME:			
GENERAL SERVICES ADMINISTRATION	SCALE: NTS		
PROJECT NAME:	SCALL. 1115		
GOODFELLOW GS-P-16-16-GZ7025	916029		



▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE

PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



	DRAWN by: JWH
	SUB. DATE: 03/04/16
CLIENT NAME:	
GENERAL SERVICES ADMINISTRATION	

PROJECT NAME:

GOODFELLOW GS-P-16-16-GZ7025

SCALE: NTS 916029



▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH	
GOODFELLOW MO0606 (103) - 1st FLOOR	SUB. DATE: 03/04/16	
CLIENT NAME:		
GENERAL SERVICES ADMINISTRATION		
	SCALE: NTS	
DBO JECT NAME:	SUALE. NIS	

916029

GOODFELLOW GS-P-16-16-GZ7025



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

CustomerOCCU-TEC, INC. (3505)Address4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 160046

 Matrix
 Wipe

 Received
 02/26/16

 Analyzed
 02/26/16

 Reported
 02/27/16

Project Goodfellow 103
Location St. Louis, MO
Number 916029

Number	916029					
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
160046-001	103-PbW-001	Basement Top Of Equip	02/22/16			
Lead		EPA 7000B / 3050B	1.00 ft2	3450 µg/wipe	3450 μg/ft2	100 μg/ft2
160046-002	103-PbW-002	Basement Top Of Jacket	02/22/16			
Lead		EPA 7000B / 3050B	1.00 ft2	426 µg/wipe	426 µg/ft2	10.0 μg/ft2
160046-003	103-PbW-003	Basement Stairwell HR	02/22/16			
Lead		EPA 7000B / 3050B	1.00 ft2	316 µg/wipe	316 µg/ft2	10.0 μg/ft2
160046-004	103-PbW-004	Penthouse 2 Floor	02/22/16			
Lead		EPA 7000B / 3050B	1.00 ft2	112 µg/wipe	112 µg/ft2	10.0 μg/ft2
160046-005	103-PbW-005	Penthouse 2 Floor	02/22/16			
Lead		EPA 7000B / 3050B	1.00 ft2	45.3 μg/wipe	45.3 μg/ft2	10.0 μg/ft2
160046-006	103-PbW-006	Penthouse 1 Floor	02/22/16			
Lead		EPA 7000B / 3050B	1.00 ft2	31.3 µg/wipe	31.3 µg/ft2	10.0 μg/ft2
160046-007	103-PbW-007	1st G4 Light Fixture	02/22/16			
Lead		EPA 7000B / 3050B	1.00 ft2	180 μg/wipe	180 μg/ft2	10.0 μg/ft2
160046-008	103-PbW-008	1st FS1 Top Of Shelf	02/22/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
160046-009	103-PbW-009	2nd B10 Win Sill	02/22/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
160046-010	103-PbW-010	2nd CS Top	02/22/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
160046-011	103-PbW-011	2nd H27 Top Of Shelf	02/22/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
160046-012	103-PbW-012	1st B21 Top Of AH	02/22/16			
Lead		EPA 7000B / 3050B	1.00 ft2	1440 μg/wipe	1440 µg/ft2	50.0 μg/ft2
160046-013	103-PbW-013	Blank	02/22/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2

Minimum Total Reporting Limit: $10.0 \mu g/wipe$. EPA Clearance Std: $40 \mu g/ft^2$ for floors, $250 \mu g/ft^2$ for interior window sills, and $400 \mu g/ft^2$ for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

160046 Order #:

Matrix Wipe Received 02/26/16 Analyzed 02/26/16 Reported 02/27/16

Project Goodfellow 103 Location St. Louis, MO Number 916029

Sample ID Cust. Sample ID Location Sample Date **Parameter** Method

Total Conc. Area

Analyst SA

160046-02/27/16 12:12 PM

(b) (6)

Reviewed By Omar Elshowaya Analyst

RL*



SCHNEIDER LABORATORIES GLOBAL, INC.

160046 V:\160\160046

Submitting Co.	, ,				Lab WO#			Phone						
o o	CCU-TE	C Inc.			Lab WO#			Fax /	816-230-	5580				
4151 N. Mulberry (Drive, S	uite 275			Acct #	3505 Email 816-994-3470 / jayhurst@occute								
Kansas City, MO 6	64116				**State of Collection	Missouri	<u>.</u>	**Cert. Required		Yes	⊠ No			
Project Name: G	Goodfe	llow	103			Specia	al Instruction	ns [include re	quests fo	r special	reporting or	data packaş	ges]	
Project Location: S	St I ou	is MO												
Project Number: 9	,	13, 1410												
PO Number:														
Turn Around Time	e (TAT)	. N	latrix / Sample	Type (Select ONE)			Tes	sts / Analytes	(Select A	LL that A	pply)			
2 hours*				m should be of SAME		Asbestos in	Air	Asbes	tos in Bui	k	M	etais-Total		
Same day* †		matrix	type. Use add	ditional forms as needed.	PCN	1 (NIOSH 740	00)	PLM			⊠ Lead			
1 business day*	t (⊠ Air		Solid	☐ TEM	(AHERA)		PLM (Poin	t Count)		RCRA M	etals	r.	
2 business days*	* †	☐ Aqu	eous	☐ Waste	TEM	(EPA Level	II)	PLM (Qua	itative only	/)		TCLP		
≾ 3 business days*	*†	☐ Bulk		☐ Wastewater	Mi	scellaneous	Tests	NYELAP			TCLP / L	ead		
5 business days	* †	☐ Hi-V	ol-Filter (PM10)	Water, Drinking	☐ Tota	l Dust (NIOS	H 0500)	CAELAP (Point Cour	nt)	TCLP / R	CRA Metals	,	
* Not available for all t	tests	☐ Hi-V	ol Filter (TSP)	Compliance	Res	p. Dust (NIO	SH 0600)	TEM (Cha	field)		TCLP / F	ull (w/ orgar	nics) 10 day	
A job received past	зРМ	□ oil		⊠ Wipe	☐ Silic	a - FTIR (NIC	SH 7602)	<u> </u>		,	M	icrobiology		
† will begin its TAT the next business day		☐ Pair	ıt	☐ Wipe, Composite	☐ Silic	a - XRD (NIC	SH 7500)	FOR AS	BESTOS	AIR:	BACT (M	IPN & P/A)		
	shedule rush organics, multi-							TYPE OF RE	SPIRATO	R	☐ Mold Dir	ect Exam		
	retals & weekend tests in							USED:	The family and		<u> </u>	- hinder		
1		Date	Time	Sample Ide	entification	1	Wiped	pH /	Tir	ne²	Flow	Rate ³	Total ⁴	
Sample #	20.50	npled**	Sampled**	(Employee, SSN, Bl			Area (ft²)	Temp *	Start	Stop	Start	Stop	Air	
103 - PLW - 001	2/	29		Basement - To	en ef 6	que	1				1			
103 - PW - 001	-			Basement - To	•		1				,			
103-PLW -00	3			1 .	•	ell bendr								
103-Pbw-00	4			Penthouse 2	2-66	oo r	. (
103 - Pbw - 004	5		· · · · · · · · · · · · · · · · · · ·	Penthouse	2- F	luor	1		; ; ;					
103-76W-00	ပ			Penthouse	1- FI	.vv r	1	1,			٠.			
65 - P6W-007	7			15164-116	w fin	tue	()							
105-Pbw - 00T			·	1"- FS1 - To	10 of 5	4.1F	1							
103-6Pm - 00d	,		1	2nd_ B 10.5	- U:	NJ 20 5.11	1			,				
103-3PM-010	- 1	1		2nd - CS - T	unp.		(
¹Ту	ype: A=Ar	ea B=Blani	P=Personal E=	Excursion ² Beginning/End	of Sample F	Period ³ Pump	Calibration in	Liters/Minute 4	of ture to an	Liters [tim	e in min × flow	in L/min)		
	All soil and due to	aqueous s a lack of sa	ampies must be s ample quantity, wi	ent in adequate quantity for o	report. All pr	iysis to be perfo oblem jobs with	out customer n	requirements. P esponse held ove	ar 30 days l	will be void	ed and disposed	or.		
Sa	ampled	by	,	Relinquist	ed to lab	by			,	1-	1	ample Dis	•	
	e S0	nith	_	NAME				2/2	6	6	☐ Disp	irn to Sende osal by lab ee for excessive	of (Shipping feet	
ا الله	0) (6)			SIGNATURE								hipping M		
DATE / TIME 2	22-1	6	800	DATE / TIME				(b) (6)		目形			
☐ Sample return			Ambient temp	☐ Ice CI _ Chein-of-Custody documen		R S		_			VVB:	3	224	



SCHNEIDER LABORATORIES GLOBAL, INC.

Submitting Co.	occu-	TEC Inc.			Lab WO#			Phone	816-230-	5580				
4151 N. Mulberry	/ Drive	Suite 275			Acct #	3505		Fax / Email	816-994-	3470 / j	jayhurst@occutec.com			
Kansas City, MO					**State of Collection			**Cert. Required		Yes	X No			
Project Name:	Good	<u>fello</u> w	- 10	3		Speci	al Instructio	ns [include re	quests for	special	reporting or	data packa	ges]	
Project Location:	St. Lo	uis, MO	, ,											
Project Number:	91602	29						<u> </u>						
PO Number:				<i>,</i>										
Turn Around Tin	ne (TA	r) N	latrix / Sample	Type (Select ONE)			Te	sts / Analytes	(Select AL	L that A	pply)			
2 hours*				m should be of SAME	,	Asbestos in	Air	Asbes	tos in Bul	s in Bulk Metals-Total				
☐ Same day* †		matrix	<u>CType.</u> Use add	ditional forms as needed	PCN	M (NIOSH 74	00)	☐ PLM			☑ Lead			
☐ 1 business day¹	† †	⋉ Air		Solid	☐ TEM	(AHERA)		PLM (Poin	t Count)		RCRA M	etals		
2 business days	s* †	☐ Aqu	eous	Waste	☐ TEM	(EPA Level	II)	PLM (Qual	itative only	')	TCLP			
■ 3 business days	s* †	□ Bulk	:		Mi	iscellaneous	Tests	NYELAP			TCLP / L	ead		
5 business days	s* †	☐ Hi-∨	of Filter (PM10)) Water, Drinking	☐ Tota	al Dust (NIOS	H 0500)	CAELAP (Point Cour	ıt)	TCLP / F	CRA Metais	3	
* Not available for all	l tests	☐ Hi-V	ol Filter (TSP)	Compliance	Res	p. Dust (NIC	SH 0600)	TEM (Cha	(field)		TCLP / F	ull (w/ orgar	nics) 10 day	
A job received pas	at 3PM	∠ 🔲 Oil	40	⊠ Wipe	☐ Silic	a - FTIR (NIC	OSH 7602)				M	icrobiology	,	
† will begin its TAT to next business day		☐ Pain	ıt	☐ Wipe, Composite		a - XRD (NIC		FOR AS	BESTOS	AIR:	BACT (N	IPN & P/A)		
Schedule rush organ	nics, mu	(t)- ☐ Slud	ige	Micro-Vac Dus		Other		TYPE OF RE	SPIRATOR	₹	☐ Mold Direct Exam			
	etals & weekend tests in advance.							USED		-, 7		The second		
1	£3	Date	Time	Sample Id	dentification		Wiped	pH/	Time ²		Flow	Rate ³	Total⁴	
Sample #	Co.						Area (ft²)	Temp *	Start	Stop	Start	Stop	Air	
105-P6W-01	1	1/12		2nd- 427-	Top of	Shulf	1							
103-26-01	12			15 - 821-	Top of	AH	1		9					
103-6PM-01	3			Blank			1	,						
	100	15.65		<u> </u>										
	3.0		d tares.											
		1.0												
	:					,								
		****	<u> </u>											
		Auga D-21-										la I basta		
			Excursion ² Beginning/End ent in adequate quantity for											
			l lead to a disclaimer on the							d and disposed	of.			
					hed to lab	by	5	7 1	1	/_		ample Disp n to Sender		
NAME NAME							2 2	O	O		n to Sender osal by lab e for excessive v			
د KTURE (D) (o)		_ :	SIGNATURE			7	b) (6)			Sh	ipping Me	thods	
		2-16		DATE / TIME				0) (0)			HD HD	UPS DB	USM	
□ Sample return requested □ Ambient temp □ Ice * Temperature taken with IR Gun A. **Required. Chain-of-Custody.				Chain-of-Custody documen		ed in emally wi	X X R				VVB:	22	4	



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Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 160045

 Matrix
 Wipe

 Received
 02/26/16

 Analyzed
 02/27/16

 Reported
 02/27/16

Project Goodfellow 103
Location St Louis MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date				
Parameter	-	Method	Area		tal	Conc.	RL*
160045-001	103-PbV-001	Basement Floor W	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050	0B 0.10	8 ft2 <10	0.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160045-002	103-PbV-002	Basement Ledge W	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050	0B 0.10	8 ft2 <10	0.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160045-003	103-PbV-003	Basement P6 Pipe	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050	0B 0.10	8 ft2 <10	0.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
160045-004	103-PbV-004	Basement Stair E	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050	0B 0.10	8 ft2 56.	.5 μg/wipe	525 μg/ft2	92.9 μg/ft2
160045-005	103-PbV-005	Basement NW CC Pad	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050	0.10	8 ft2 125	5 μg/wipe	1160 µg/ft2	92.9 µg/ft2
160045-006	103-PbV-006	Basement Tunnel W	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050	0.10	8 ft2 <10	0.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160045-007	103-PbV-007	1st G5 Carpet	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050	0B 0.10	8 ft2 <10	0.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160045-008	103-PbV-008	1st F5 Ceiling Tile	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050	0.10	8 ft2 <10	0.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
160045-009	103-PbV-009	2nd Freight Eleve Floor	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050	0.10	8 ft2 <10	0.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
160045-010	103-PbV-010	2nd C6 Top Of CT	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050	0.10	8 ft2 <10	0.0 μg/wipe	<92.9 μg/ft2	92.9 µg/ft2
160045-011	103-PbV-011	2nd H27 Top Couch	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050	0.10	8 ft2 <10	0.0 μg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160045-012	103-PbV-012	1st B21 Floor Near Grate	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050	0B 0.10	8 ft2 21.	5 μg/wipe	200 μg/ft2	92.9 μg/ft2
160045-013	103-PbV-013	Blank	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050	0B	<10	0.0 μg/wipe		10.0 μg/wipe

Minimum Total Reporting Limit: $10.0 \mu g/wipe$. EPA Clearance Std: $40 \mu g/ft^2$ for floors, $250 \mu g/ft^2$ for interior window sills, and $400 \mu g/ft^2$ for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Matrix Received Analyzed

Reported

Total

Order #:

Wipe 02/26/16 02/27/16

02/27/16

160045

Project Goodfellow 103
Location St Louis MO
Number 916029

Sample ID Cust. Sample ID Loc
Parameter Me

Location Sample Date
Method Area

Conc.

RL*

Analyst HI

160045-02/27/16 05:25 PM

(b) (6)

Reviewed By Omar Elshowaya

Analyst



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com



V:\160\160045

7								\						
Submitting Co.	OCCU-TE	C Inc.			Lab WO#			Phone	816-230-5580					
4151 N. Mulberry	Drive, S	uite 275	5		Acct#	3505		Fax / Email	816-994-3470	/ jayhurst@oc	cutec.com	1		
Kansas City, MO	64116				**State of Collection	Missouri		**Cert. Required	☐ Yes	⊠ No				
Project Name:	Goodfe	llow	10				ial Instruction	ons [include re	quests for spec	ial reporting or	data packa	iges]		
Project Location:	St. Lou	is, MO						,						
Project Number:	916029													
PO Number:									· · · · · · · · · · · · · · · · · · ·					
Turn Around Tin	ne (TAT)	l n	/latrix / Sample	Type (Select ONE)			Te	sts / Analytes	(Select ALL that	Annly)				
☐ 2 hours*		All	samples on fo	rm should be of SAME		Asbestos in			tos in Bulk		/letals-Total			
☐ Same day*†		matri	x type. Use ad	ditional forms as needed.		(NIOSH 74		☐ PLM		⊠ Lead				
☐ 1 business day*	† .	⊠ Air		Solid	☐ TEM	(AHERA)		PLM (Poin	t Count)	☐ RCRA M	letals	İ		
2 business days	s* †	☐ Aqu	ecus	☐ Waste	TEM	(EPA Level	II)	PLM (Quai	itative only)		TCLP			
☑ 3 business days	i* †	☐ Bulk	•		Mi	scellaneous	Tests	☐ NYELAP		☐ TCLP / L	.ead			
5 business days	5* † ·	☐ Hi-V	ol Filter (PM10) Mater, Drinking	☐ Total	Dust (NIOS	H 0500)	CAELAP (Point Count)	☐ TCLP / F	RCRA Metals	в :		
* Not available for all	tests	☐ Hi-V	oi Filter (TSP)	Compliance	☐ Resp	o. Dust (NIO	SH 0600)	TEM (Cha	field)	TCLP / F	ull (w/ organ	nics) 10 day		
A job received pasi	TAT the					- FTIR (NIC	OSH 7602)			N	licrobiology	,		
† will begin its TAT the next business day	iness day LI Paint LI Wipe, Composite					- XRD (NIC	SH 7500)	FOR ASI	BESTOS AIR:	BACT (N	Microbiology BACT (MPN & P/A)			
						Other		TYPE OF RE	SPIRATOR	` ` ` ` ` ` ` ' ` ' ' ' ' ' ' '				
advance.	16212 111	☐ Scil			_ <u> </u>			USED:		П				
	Contractor Company	ate	- Time -	- Sample Ide			Wiped	pH/	7lme ²	Flow	/Rate ³	Total ⁴		
Sample #		pled**	Sampled**	(Employee, SSN, Blo	lg, Materi	al, Type¹)	Area (ft²)	Temp *	Start Sto	p Start	Stop	Air		
103 160 00	2,	22		Basemend -	- Floo	r W	100 2							
103-P6V-00	2			Basement -	Leda	e W	1							
103-864-00	3			Basement -	(P6=	Pipe FI	VA TOC							
103-767-00	1			Busement - St	mir E				·					
103-Pbu-00	5			Businest . 1	Jw - (CL Pad								
103-760-00	6			0 1 7	٠.									
103-964-00-	1			131-65-6	س مد)	t.								
103-760-00	۲			151 - F5 - C	دائمد	tile								
103-960-00	9			2nd - Freight	Elw	Floor								
103-764-610	2	}		2nd - C6	Top of	CT	4							
. 1Ty	pe: A=Area	a B=Blank	P=Personal E=I	Excursion ² Beginning/End o ent in adequate quantity for du	f Sample Pe	riod ³ Pump (Calibration in	Liters/Minute 4V	otume in Liters [tir	ne in min × flow i ample duplicate =	in Umin]			
	due to a	lack of sa.	mple quentity, wil	l lead to a disclaimer on the re	port. All prot	olem jobs with	out customer n	sponse held over	30 days will be voi	ded and disposed	of.			
S	ampled I	Э	,	Relinquishe	d to lab b	ру		220	5/16		ample Disp in to Sender			
N- = JA	<u> 4</u> 5	mitl	1850	NAME JORS	m. +(☐ Dispo	osal by lab			
ture (b)	(6)		ľ	signature (b) (6)				(1) (0)			e for excessive w			
G MASOINE D	O CONTRACTOR				-16			(b) (6)		FX HD	ups Ups	USM		
☐ Sample return	☐ Sample return requested ☐ Ambient temp ☐ Ice CI_					RUSIN	X X Re			WB:	<i>و</i> رُرِّح	ا مد		
* Temperature taken				0								- /		

SLG

SCHNEIDER LABORATORIES GLOBAL, INC.

Submitting Co.	OCCU-T	EC inc.			Lab WO#			Phone	816-23	0.5580		•		
4151 N. Mulberry	Drive,	Suite 27	5		Acct#	Fax / S505 Email 816-994-347					0 / jayhurst@occutec.com			
Kansas City, MO	-			,	*State of	Missouri		**Cert.	ř	4-3470 /] Yes	jaynurst@oo ⊠ No	ccutec.con		
Project Name:	Goodf	ellow	103			į.	ial Instruction		1	or special	reporting o	r data nacka	ngest	
Project Location:	St. Lo	is. MO				Special Instructions [include requests for special reporting or data packs								
Project Number:				******		·								
PO Number:										·				
Turn Around Tin	e (TAT)		Matrix / Samul	e Type (Select ONE)	<u></u>									
2 hours*				rm should be of SAME		Asbestos ir	pply)	Satala Tatal	,					
☐ Same day* †		matr	ix type. Use ac	ditional forms as needed.	Asbestos in Air Asbestos in Bulk						Metals-Total			
☐ 1 business day*	†	⊠ Air		Soiid		(AHERA)	•	PLM (Poin	t Count)		RCRA N	letals		
2 business days	*†	☐ Aqı	ieous	☐ Waste	I	(EPA Level	ti)	PLM (Qua	-	lv)				
🗵 3 business days	*†	☐ Bull	k	☐ Wastewater	***************************************	cellaneous	· · · · · · · · · · · · · · · · · · ·	NYELAP		,	TCLP / Lead			
5 business days	† †	☐ H⊱/	ol Filter (PM10	Water, Drinking	☐ Total Dust (NIOSH 0500) ☐ CAELAP (I					int)			3	
* Not available for all	tests	☐ Hi-\	/ol Filter (TSP)	Compliance	Resp	. Dust (NIO	SH 0600)	TEM (Char		·	TCLP / RCRA Metals TCLP / Full (w/ organics) 10 day			
A job received past † will begin its TAT th		□ Oii		☑ Wipe	☐ Silica	- FTIR (NIC	SH 7602)							
next business day	G	☐ Pair	••	☐ Wipe, Composite	☐ Silica	- XRD (NIC	SH 7500)	FOR AS	BESTOS	AIR:	Microbiology BACT (MPN & P/A)			
Schedule rush organ ಿetals & weekend	& weekend tests in					Other		TYPE OF RE	SPIRATO	R	☐ Mold Direct Exam			
advarice.		LI Soil												
Sample #	# 25 Pe TeCA	Date npled**	Time Sampled**	Sample Iden (Employee, SSN, Bido		1v	Wiped	pH / _		me ²		Rate ³	Total ⁴	
103-760-011	2	7	Joannier	(Linployee, SSN, Bigg	i, iviateria	ii, (ype)	Area (ft²)	Temp *	Start	Stop	Start	Stop	Air	
103-100 011	_	22		2 - H27 -	· Top o	f Couch	10cm							
103-499-015				154-821- FL	uct Nec	ur Grah								
103-860-01	3	\bigvee		Blank			-							
				j				-						
	- 10 and	Total Service												
	1. 1.									•				
				· · · · · · · · · · · · · · · · · · ·										
												}		
'Тур	e: A=Are	a B=Blank	P=Personal E=E	xcursion ² Beginning/End of 5	Sample Peri	od ³ Pump C	alibration in L	Iters/Minute ⁴ Vo	lume in Li	iters [time l	n min × flow i	ı L/min]		
	due to a	lack of sar	mple quantity, will	nt in adequate quantity for dupli lead to a disclaimer on the repo	rt. Ali proble	s to be perfori em jobs withou	ned per EPA re ut customer res	equirements. Fai ponse held over	ure to perf 30 days wi	form a samp II be volded	le duplicate an and disposed o	alysis, of		
Sai	mpled I	oy ,		Relinquished	to lab by	/)		<u> </u>	/1		mple Disp		
Mir isleft	S	<u> </u>		IAME JOFF S	mith	<u> </u>	12	516		5	Returr Dispos	n to Sender (sal by lab	Shipping fees)	
ture (b)	(6)		5	SIGNATURE (b) (6)			(b) (6)				for excessive we		
DATE / TIME 122-16 1800 DATE / TIME 2-					25-10		(b) (0)			ET FX	pping Met!	_	
☐ Sample return requested ☐ Ambient temp ☐ Ice CI						R SIB)					HD WE-			
* Temperature taken wi				Chain-of-Custody documentation							,,,e,	11/		



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Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn:

Project: Goodfellow 103
Location: St Louis, MO

Order #: 159780

02/25/16

 Matrix
 Air

 Received
 02/24/16

 Analyzed
 02/25/16

Reported

Number:	916029			PO Nu	mber:		
Sample ID	Cust. ID	Location	Date	Time	Flo	ow Volun	ne
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
159780-001	103-PbA-001	1st Floor 1F	02/19/16	165 min	3.67	L/min 606	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-002	103-PbA-002	1st Floor J3	02/19/16	165 min	3.67	L/min 606	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-003	103-PbA-003	1st Floor F5	02/19/16	165 min	3.67	L/min 606	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-004	103-PbA-004	1st Floor B10	02/19/16	165 min	3.67	L/min 606	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-005	103-PbA-005	2nd Floor C2	02/19/16	165 min	3.67	L/min 606	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-006	103-PbA-006	2nd Floor B6	02/19/16	165 min	3.67	L/min 606	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-007	103-PbA-007	2nd Floor G2.8	02/19/16	165 min	3.67	L/min 606	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
		Endcaps missi	ng; possible cross-d	ontamination or s	sample los	SS.	
159780-008	103-PbA-008	2nd Floor G6.5	02/19/16	165 min	3.67	L/min 606	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-009	103-PbA-009	2nd Floor H13	02/19/16	165 min	3.67	L/min 606	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-010	103-PbA-010	2nd Floor E20	02/19/16	166 min	3.67	L/min 609	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.29 μg/m3	<1.14 µg/m3
159780-011	103-PbA-011	2nd Floor B27	02/19/16	165 min	3.67	L/min 606	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-012	103-PbA-012	Blank	02/19/16				
Lead		NIOSH 7082M		<2.00 µg	2.00 µg		
159780-013	103-PbA-013	2nd B13	02/22/16	204 min	3.67	L/min 749	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<2.68 µg/m3	<1.14 µg/m3
159780-014	103-PbA-014	2nd E31	02/22/16	200 min	3.67	L/min 734	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<2.73 µg/m3	<1.14 µg/m3
159780-015	103-PbA-015	2nd F36	02/22/16	199 min	3.67	L/min 730	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<2.74 µg/m3	<1.14 µg/m3
159780-016	103-PbA-016	2nd G39	02/22/16	196 min	3.67	L/min 719	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<2.78 μg/m3	<1.14 µg/m3
159780-017	103-PbA-017	1st F33	02/22/16	193 min	3.14	L/min 606	L

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.

Accrediting bodies: AIHA-LAP, LLC 100527
Page 1 of 3



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn:

Project: Goodfellow 103
Location: St Louis, MO
Number: 916029

Order #: 159780

 Matrix
 Air

 Received
 02/24/16

 Analyzed
 02/25/16

 Reported
 02/25/16

PO Number:

-Number:	910029				PU	nun	ibei.				
Sample ID	Cust. ID	Location	Dat	te	Tin	пе	FI	ow	Volu	me	
Parameter		Method			Total	F	RL*		Conc.		8 Hr TWA
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<3.30 µg/m3		<1.33 µg/m3
159780-018	103-PbA-018	1st H32	02/22	/16	220	min	3.67	L/min	807	7 L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<2.48 µg/m3		<1.14 µg/m3
159780-019	103-PbA-019	1st D32	02/22	/16	198	min	3.67	L/min	727	7 L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<2.76 µg/m3		<1.14 µg/m3
159780-020	103-PbA-020	1st D36	02/22	/16	177	min	3.14	L/min	556	3 L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<3.60 µg/m3		<1.33 µg/m3
159780-021	103-PbA-021	1st H36	02/22	/16	172	min	3.67	L/min	631	I L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<3.17 µg/m3		<1.14 µg/m3
159780-022	103-PbA-022	1st B27	02/22	/16	176	min	3.67	L/min	646	3 L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<3.10 µg/m3		<1.14 µg/m3
159780-023	103-PbA-023	1st B21	02/22	/16	167	min	3.67	L/min	613	3 L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<3.27 μg/m3		<1.14 µg/m3
159780-024	103-PbA-024	1st J32	02/22	/16	166	min	3.67	L/min	609	L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<3.29 µg/m3		<1.14 µg/m3
159780-025	103-PbA-025	1st F31	02/22	/16	167	min	3.67	L/min	613	3 L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<3.27 μg/m3		<1.14 µg/m3
159780-026	103-PbA-026	Penthouse 2	02/22	/16	295	min	3.67	L/min	108	0 L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<1.85 µg/m3		<1.14 µg/m3
159780-027	103-PbA-028	Penthouse 1	02/22	/16	284	min	3.67	L/min	104	0 L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<1.92 µg/m3		<1.14 µg/m3
159780-028	103-PbA-029	Penthouse 1	02/22	/16	280	min	3.67	L/min	103	0 L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<1.95 µg/m3		<1.14 µg/m3
159780-029	103-PbA-031	Basement East	02/22	/16	203	min	3.67	L/min	745	5 L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<2.69 µg/m3		<1.14 µg/m3
159780-030	103-PbA-032	Basement East	02/22	/16	201	min	3.67	L/min	738	3 L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<2.72 µg/m3		<1.14 µg/m3
159780-031	103-PbA-033	Basement Center	02/22	/16	201	min	3.67	L/min	738	3 L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<2.72 µg/m3		<1.14 µg/m3
159780-032	103-PbA-034	Basement Center	02/22	/16	200	min	3.67	L/min	734	1 L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<2.73 µg/m3		<1.14 µg/m3
159780-033	103-PbA-035	Basement Center	02/22	/16	209	min	3.67	L/min	767	7 L	
Lead		NIOSH 7082M			<2.00 µg	2	2.00 µg		<2.61 µg/m3		<1.14 µg/m3
159780-034	103-PbA-036	Blank	02/22	/16					·		

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.

Accrediting bodies: AIHA-LAP, LLC 100527 Page 2 of 3



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Kansas City, MO 64116

Project: Goodfellow 103 Location: St Louis, MO

Number: 916029

Order #: 159780

Matrix Air

 Received
 02/24/16

 Analyzed
 02/25/16

 Reported
 02/25/16

PO Number:

Sample ID Cust. ID Time Location Date Flow Volume **Parameter** Method Total RL* 8 Hr TWA Conc. NIOSH 7082M <2.00 µg Lead 2.00 µg

Analyst: MHB

Attn:

159780-02/25/16 04:33 PM

(b) (6)

Reviewed By: Abisola Kasali

Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter PEL

Lead $0.0500 \text{ mg/m}^3 [50.0 \text{ } \mu\text{g/m}^3]$

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.

Accrediting bodies: AIHA-LAP, LLC 100527 Page 3 of 3

SLG

SCHNEIDER LABORATORIES GLOBAL, INC.

159780

V:\159\159780

Submitting Co.	OCCU-TE	C Inc.				ab WO#			Phone	816-230)-5580					
4151 N. Mulberry	/ Drive, Su	rite 275				Acct#	3505		Fax / Email	ayhurst@occutec.com						
Kansas City, MO					*	*State of ollection	Missouri		**Cert. Require		Y May ye and	⊠ No				
Project Name:	Goodfel	low	- 103				Spec	ial Instructio	ns [include	equests fo	or special :	reporting or	data packa	ges]		
Project Location:	St. Loui	s, MO					·									
Project Number:	916029															
PO Number:													٠.			
Turn Around Tin	ne (TAT)		// Natrix / Sample	Type (Selec	t ONE)			Te	sts / Analyte	s (Select A	LL that Ap	ply)				
2 hours*			samples on fo				Asbestos ir	ı Air	ılk	Metals-Total						
Same day* †		<u>matn</u>	x type. Use ad	ditional forms	as needed.	□ РСМ	(NIOSH 74	00)		X Lead						
1 business day	't	X Air		Solid		☐ TEM	(AHERA)		PLM (Pol	nt Count)		RCRA M	etais			
2 business days	S* †	☐ Aqu	eous	☐ Waste		TEM (EPA Level Ii) PLM (Qualitative only)						·	TCLP			
Ⅲ 3 business days	s* †	☐ Bulk	:		ater	Miscellaneous Tests NYELAP						TCLP / Le	ead			
5 business days	3* †	☐ Hi-V	of Filter (PM10) 🔲 Water,D	rinking	☐ Total	Dust (NIOS	H 0500)	CAELAP	(Point Cou	int)	TCLP / R	CRA Metals			
* Not available for all			of Filter (TSP)	Complia	ince	Resp	Dust (NIC	SH 0600)	TEM (Ch	atfield)		TCLP / F	ull (w/ organ	liCS) 10 dey		
A job received past † will begin its TAT th		□ Oil		▼ Wipe		☐ Silica	- FTIR (NIC	OSH 7602)	<u> </u>			M	crobiology			
next business day	•	☐ Pair			omposite	☐ Silice	- XRD (NIC	OSH 7500)	FOR AS	BESTOS	AIR:	BACT (M	PN & P/A)			
Schedule rush organ		Sluc		<u> </u>	-Vac Dust		Other		TYPE OF R	R .	☐ Mold Direct Exam					
advance.	. 10010 117	□ _{Soil}		<u> </u>					USED:	` <u> </u>	0					
Committee #	100	ate	Time		Sample Iden		4.	Wiped	pH/		me ²		Rate ³	Total ⁴		
Sample #	100	pled** /	Sampled**	_	e, SSN, Bldg	g, Materia	al, Type')	Area (ft²)	Temp *	Start	Stop	Start	Stop	Air		
103-PbA-00	1 7º	<u>1/14</u>		15+ Floor	<u> </u>					0715	1000	3.67	3.67	605.55		
103-PbA-60;	2			1st 6/00	or <u>J3</u>					0722	1007	3.47	3.47	605.55		
106-PbA -003				18+ flox	or F5					073Z	1617	3.47	3.47	605.55		
103-PDA-00	<u>u </u>	er ver		1st Flo	or BIC	<u> </u>				6745	1030	3.67	3.47	605.53		
163-PbA-003	5			Zno flo	or CZ	2				0757	1042	3,47	3.67	(₀ 05.55		
103-PBA-000				2nd fle	or BG	2				0800	1045	3.47	3.47	COS.55		
103-PbA-007				2nd flo	wr Gi	2.8				0805	1050	3.67	3.47	605.55		
103-PsA-009	3			2nd fl	our 6	G.5	• :			0810	1055	3.47	3.47	605.55		
103-PBA-00	9				oor H	13				0813	1058	3.47	3.47	405-55		
163-PbA-010		OwDian!	B-B	Sun t	loor E	20				0817	1103	3.47	3.67	405.55		
	Ali soil and a	queous sa	P=Personal E=E imples must be se	ent in adequate	quantity for dup	licate analys	sis to be perfo	med per FPA d	equirements F	allune to ne	form a samo	le dunlicate an	alveis			
		****	mple quantity, will					out customer re	sponse held ov	er 30 days w	/III be voided		of. mple Disp	neal		
N' 7 Just	ampled b	ممارا		NAME	elinquished (b) (6)		ру	2	12	4-0	6	Return Dispos	to Sender sal by lab	(Shipping fees)		
ture (b) (6)								(1) (2)				for excessive w				
DATE / TIME	// 2 IS male					O	850	'	(b) (6)			HD HD	<u> </u>	□ ∪sm		
□ Sample return requested □ Ambient temp □ Ice CI *Temperature taken with IR Gun A. **Required. Chain-of-Custody document							R□S☑ I internally with			age 2.		WB:_	Z	13		



SCHNEIDER LABORATORIES GLOBAL, INC.

Acct # 3505			
**State of Collection St. Louis, MO Project Number: St. Louis, MO Project Number: St. Louis, MO Project Number: St. Louis, MO **Special Instructions Include requests for special reporting or data packages **Project Number: St. Louis, MO **Turn Around Time (TAT) Matrix / Sample Type (Select ONE) Tests / Analytes (Select ALL that Apply) **Project Number: All samples on form should be of SAME matrix type. Use additional forms as needed PCM (NIOSH 7400) PLM Lead PCM (NIOSH 7400) PLM (Qualitative only) TCLP **State of Collection St. Louis, MO **Turn Around Time (TAT) Matrix / Sample Type (Select ONE) Tests / Analytes (Select ALL that Apply) **All samples on form should be of SAME matrix type. Use additional forms as needed PCM (NIOSH 7400) PLM Selectional forms as needed PCM (NIOSH 7400) PLM (Qualitative only) TCLP **State of Collection St. Louis, MO **All samples on form should be of SAME matrix type. Use additional forms as needed PCM (NIOSH 7400) PLM (Qualitative only) TCLP **State of Collection St. Louis, Mo **Include Tests All samples on form should be of SAME matrix type. Use additional forms as needed PCM (NIOSH 7400) PLM (Qualitative only) TCLP **State of Collection St. Louis, Mo **Include Tests Select ALL that Apply) **Include Tests All samples on form should be of SAME matrix type. Use additional forms as needed PCM (NIOSH 7400) PLM (Qualitative only) TCLP **Turn Around Time (TAT) PLM (AHERA) PLM (Point Count) TCLP / RCRA Metals **Total Dust (NIOSH 0500) TEM (Chatfield) TCLP / Full (Worganics) **Not available for all tests PL Vol Filter (TSP) Compliance Resp. Dust (NIOSH 0500) TEM (Chatfield) TCLP / Full (Worganics) **A job received past 3PM Will begin its TAT the met business day Micro-Vac Dust Micro-Vac Dust Other TYPE OF RESPIRATOR Mold Direct Exam Othe	whyrst@occutec.com		
Project Name: Goodfellow ~ { \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Project Number: 916029 Project Number: 916029 Turn Around Time (TAT)			
Project Number: Turn Around Time (TAT) Matrix / Sample Type (Select ONE) All samples on form should be of SAME matrix type. Use additional forms as needed. Same day* † All amples on form should be of SAME matrix type. Use additional forms as needed. PCM (NIOSH 7400) PLM PLM (Point Count) RCRA Metals TCLP Aquecus Waste TEM (EPA Level II) Aquecus Test Bulk Wastewater Miscellaneous Tests Not available for all tests A job received past 3PM of will begin its TAT the next business day Schedule rush orgenics, multi- Sudge Micro-Vac Dust Micro-Vac Dust Other Tests / Analytes (Select ALL that Apply) Asbestos in Bulk Metals-Total Asbestos in Bulk Metals-Total Asbestos in Bulk Metals-Total Asbestos in Bulk Metals-Total PCM (NIOSH 7400) PLM (Qualitative only) TCLP TCLP / Lead TCLP / Lead TCLP / Exch Metals TCLP / Fill (w/ organics) Microblology FOR ASBESTOS AIR: DANG Add Direct Exam	\dashv		
Project Number: Turn Around Time (TAT) Matrix / Sample Type (Select ONE) All samples on form should be of SAME matrix type. Use additional forms as needed. Same day* † All amples on form should be of SAME matrix type. Use additional forms as needed. PCM (NIOSH 7400) PLM PLM (Point Count) RCRA Metals TCLP Aquecus Waste TEM (EPA Level II) Aquecus Test Bulk Wastewater Miscellaneous Tests Not available for all tests A job received past 3PM of will begin its TAT the next business day Schedule rush orgenics, multi- Sudge Micro-Vac Dust Micro-Vac Dust Other Tests / Analytes (Select ALL that Apply) Asbestos in Bulk Metals-Total Asbestos in Bulk Metals-Total Asbestos in Bulk Metals-Total Asbestos in Bulk Metals-Total PCM (NIOSH 7400) PLM (Qualitative only) TCLP TCLP / Lead TCLP / Lead TCLP / Exch Metals TCLP / Fill (w/ organics) Microblology FOR ASBESTOS AIR: DANG Add Direct Exam			
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All samples on form should be of SAME matrix type. Use additional forms as needed. Same day* † All samples on form should be of SAME matrix type. Use additional forms as needed. PCM (NIOSH 7400) PLM Cannot plum (Point Count) RCRA Metais TCLP TCLP TCLP TCLP TOTAL Dust (NIOSH 0500) TCLP NYELAP TCLP / Lead TCLP / RCRA Metais TCLP / Full (w/ organics) A job received past 3PM Total Dust (NIOSH 0600) TEM (Chatfield) TCLP / Full (w/ organics) Microbiology Will begin its TAT the next business day TYPE OF RESPIRATOR Mold Direct Exam Mold Direct Exam			
All samples on form should be of SAME matrix type. Use additional forms as needed. Same day*† All samples on form should be of SAME matrix type. Use additional forms as needed. PCM (NIOSH 7400) PLM (Point Count) RCRA Matais TEM (EPA Level II) PLM (Qualitative only) TCLP Abbestos in Bulk Metais-Total RCRA Matais TCLP RCRA Matais TCLP TCLP / Lead TCLP / Lead TCLP / Lead TCLP / Lead TCLP / RCRA Metais NYELAP TOTAL Dust (NIOSH 0500) A job received past 3PM will begin its TAT the next business day TOTAL Dust (NIOSH 7602) Schedule rush organics, multi- Studge Micro-Vac Dust Nicro-Vac Dust Nicro-Vac Dust TYPE OF RESPIRATOR Metais-Total PLM (Point Count) TCLP / Lead TCLP / RCRA Metais TCLP / RCRA Metais TCLP / Full (w/ organics) Microbiology TEM (Chatfield) TCLP / Full (w/ organics) Microbiology TYPE OF RESPIRATOR Mold Direct Exam			
Same day* † 1 business day* † Air Solid TEM (AHERA) PLM (Point Count) RCRA Metals 2 business days* † Aqueous Waste TEM (EPA Level II) PLM (Qualitative only) TCLP 3 business days* † Bulk Wastewater Miscellaneous Tests NYELAP TCLP / Lead 5 business days* † Hi-Vol Filter (PM10) Water, Drinking Total Dust (NIOSH 0500) CAELAP (Point Count) TCLP / RCRA Metals * Not available for all tests Hi-Vol Filter (TSP) Compliance Resp. Dust (NIOSH 0600) TEM (Chatfield) TCLP / Full (w/ organics) * A job received past 3PM Oil Wipe Silica - FTIR (NIOSH 7602) Microbiology * twill begin its TAT the next business day Paint Wipe, Composite Silica - XRD (NIOSH 7500) TYPE OF RESPIRATOR Mold Direct Exam			
☐ 1 business day* † ☐ Air ☐ Solid ☐ FEM (AHERA) ☐ FEM (CHERA) ☐ FEM (Qualitative only) TCLP ☐ 2 business days* † ☐ Aqueous ☐ Wastewater ☐ TEM (EPA Level II) ☐ PLM (Qualitative only) ☐ TCLP / Lead ☑ 3 business days* † ☐ Bulk ☐ Wastewater ☐ Miscellaneous Tests ☐ NYELAP ☐ TCLP / Lead ☑ 5 business days* † ☐ Hi-Vol Filter (PM10) ☐ Water, Drinking ☐ Total Dust (NIOSH 0500) ☐ CAELAP (Point Count) ☐ TCLP / RCRA Metals ↑ Not available for all tests ☐ Hi-Vol Filter (TSP) ☐ Compliance ☐ Resp. Dust (NIOSH 0600) ☐ TEM (Chatfield) ☐ TCLP / Full (w/ organics) A job received past 3PM will begin its TAT the next business day ☐ Oil ☑ Wipe, Composite ☐ Silica - XRD (NIOSH 7500) FOR ASBESTOS AIR: ☐ BACT (MPN & P/A) Schedule rush organics, multi- ☐ Sludge ☑ Micro-Vac Dust Other TYPE OF RESPIRATOR ☐ Mold Direct Exam			
2 business days* † Aqueous Waste Item (EFX Ester III) NYELAP TCLP / Lead ☑ 3 business days* † Bulk Wastewater Miscellaneous Tests NYELAP TCLP / Lead ☑ 5 business days* † Hi-Vol Filter (PM10) Water, Drinking Total Dust (NIOSH 0500) CAELAP (Point Count) TCLP / RCRA Metals * Not available for all tests Hi-Vol Filter (TSP) Compliance Resp. Dust (NIOSH 0600) TEM (Chatfield) TCLP / Full (w/ organics) A job received past 3PM will begin its TAT the next business day Oil Wipe, Composite Silica - XRD (NIOSH 7500) FOR ASBESTOS AIR: BACT (MPN & P/A) Schedule rush organics, multi- Sludge Micro-Vac Dust Other TYPE OF RESPIRATOR Mold Direct Exam	\neg		
Image: State of the control of the			
5 business days* † Hi-Vol Filter (PM10) Water, Drinking Total Dust (NIOSH 0500) TEM (Chatfield) TCLP / Full (w/ organics)	ļ		
A job received past 3PM Oil X Wipe Silica - FTIR (NIOSH 7500) TYPE OF RESPIRATOR Microbiology Microbiology Microbiology TYPE OF RESPIRATOR Microbiology Microbiology Microbiology Microbiology Microbiology Microbiology Microbiology Microbiology Microbiology FOR ASBESTOS AIR: BACT (MPN & P/A) Microbiology Microbiology Microbiology Microbiology Microbiology TYPE OF RESPIRATOR Microbiology Microbiology Microbiology Microbiology Microbiology Microbiology Microbiology Microbiology TYPE OF RESPIRATOR Microbiology Microbio	0 day		
A job received past 3PM † will begin its TAT the next business day Schedule rush organics, multi- Studge Sludge Sludge Slica - XRD (NIOSH 7500) FOR ASBESTOS AIR: BACT (MPN & P/A)			
Schedule rush organics, multi-			
Schedule rush organics, multi-	1		
t advance IU Soll	_		
O to be the Wiscolan Winged put Time ² Flow Rate ³ Time ³	tai ⁴		
Sample # Sampled** Sampled** (Employee, SSN, Bldg, Material, Type*) Area (ft²) Temp * Start Stop Start Stop	Air		
165-P6A-013 2/22 2nd 8-13 757 1121 3.67 3.67 74	80.8		
103-P6A-014 2nd - E31 0TOG 1126 3.67 3.67 7	34		
103-PbA-015 2nd - F36 0813 1132 3.67 3.67 7	10. [3		
103-P6H-016 2nd-639 0820 1136 3.67 7	19.52		
103-P6A-017 151- 432 K4 F33 0726 1139 3.67 2.61 (03.1		
103-P64-018 13t D32 kH H32 0834 1214 3.67 8	67,4		
103-PbA-019 15+ B36KM D32 0F40 1168 3.67 3.67 7	26.66		
102-P6H-020 151 H=3664 D36 0905 1202 3.67 2.61 5	55.78		
103-964-021 151 - 827 M H36 0913 205 3.67 3.67 6	31.24		
103-864-022 V 15-827 0923 1219 3.67 3.67 6	45,92		
Type: A=Area B=Blank P=Personal E=Excursion **Beginning/End of Sample Period **Pump Calibration in Liters/Minute **Volume in Liters [time in min × flow in L/min] All soil and equeous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Fail ure to perform a sample duplicate analysis, All soil and equeous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Fail ure to perform a sample duplicate analysis, All soil and equeous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Fail ure to perform a sample duplicate analysis, All soil and equeous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Fail ure to perform a sample duplicate analysis, All soil and equeous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Fail ure to perform a sample duplicate analysis, All soil and equeous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Fail ure to perform a sample duplicate analysis, All soil and equeous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements.			
due to a lack of sample quantity, will lead to a disclaimer of the region. All problem jobs without disclaims response the order of the problem jobs without disclaims response to the problem jobs response to the pro	al		
Sampled by Relinquished to lab by Relinquished to lab by Comparison Relinquished to lab by Disposal by lab	ipping fees)		
(1) (0)			
DATE / TIME 2-22-16 DATE / TIME 2 / 2.5 O \(\delta \) (b) (6) Shipping Methods DATE / TIME 2 / 2.5 O \(\delta \) 50 DATE / TIME 2 / 2.5 O \(\delta \) 50			
□ Sample return requested □ Ambient temp □ Ice □ □ □ □ □ □ □ □ R□ S□ X ☑ Re *Temperature taken with IR Gun A. **Required. Chein-of-Custody documentation continued internally within lab.Terms	<u> </u>		

SLG

SCHNEIDER LABORATORIES GLOBAL, INC.

Submitting Co.							}		· · · · · · · · · · · · · · · · · · ·			T	· · · · · ·	~···					
- Continuing Co.	OCCU-TI	EC Inc.				Lab WO#	ab WO#					Phone 816-230-5580							
4151 N. Mulbern	/ Drive, S	uite 27	5			Acct#	3505				Fax / Email	818-994-3470 / jayhurst@occutec.com				m			
Kansas City, MO	64116					**State of Collection	Misso	url			**Cert. Required	1,	Yes	⊠ No					
Project Name:	Goodfe	liow		53					ial instruct	ions [li	ıclude re	quests	for special	reporting o	r data naci	(ages)			
Project Location:	St. Lou	is, MO										-							
Project Number:	916029								·	··					· · · · · · · · · · · · · · · · · · ·				
PO Number:						·					· · · · · · · · · · · · · · · · · · ·					· 1////			
Turn Around Tim	ne (TAT)		Astriy / S	amnia	Type (Select ONE)									<u> </u>					
2 hours		All	samples	on for	m should be of SAME					ests / A			ALL that A	at Apply)					
Same day* †		matrix	x type. U	se ado	ditional forms as needed.							tos in B	uik	Metals-Total					
☐1 business day*	†	⊠ Air			☐ Sofid	☐ TEM				P	- ^{.w} -M (Point	Count		☑ Lead					
2 business days	* †	☐ Aque	eous		☐ Waste	1	•	•	10		.M (Punt .M (Quali	•	nha)	☐ RCRA N					
3 business days	* †	☐ Bulk			☐ Wastewater	TEM (EPA Level II) Miscellaneous Tests					/ELAP	restive of	"97	TCLP / I	TCLP	··			
☐ 5 business days						☐ Total		4-	\ELAP (F	oist Cou	int)	TCLP /		la					
* Not available for all	Constitution of Constitution					1			SH 0600)	ļ—	M (Chatf		1	TCLP /					
A job received past † will begin its TAT the						☐ Silica	- FTIR	(NIO	SH 7602)		•	•		-	dicrobiolog				
next business day	kt business day					☐ Silica	- XRD	(NIO	SH 7500)	F	OR ASB	ESTOS	S AIR:	BACT (A		<u>y</u>			
ানুtals & weekend :							her		TYPE	OF RES	PIRATO	1	Mold Direct Exam						
advance.	advance. Soil Soil):	- 500							
Sample #	Date Time Sample ide								Wiped	pH		Ti	me ²	Flow	Rate ³	Total ⁴			
103-964-023	152 HZ	(M.E.)	· · · · · ·		(Employee, SSN, Bld	g, Materia	l, Type	<u>}')</u>	Area (ft²)	Ten	1p *	Start	Stop	Start	Stop	Air			
	21	<u> </u>			1st - BZL						_ 0	935	1222	3.67	3.67	612.89			
103-74-604					14- 732			ĺ				~~~							
103-P64-025					. 41			+				945	1231	3.67	5.0	609.22			
162 214	33.5				1" - F31			_			0'	950	1237	3.67	3.67	612.89			
103-761-026	>	1-1			Penthouse.	. 2					[1	037	1532	3.67	2 1.7	15726			
103-764-028	;	1. 1			D. Ch	1									_				
103-P6A-029				\dashv	Peathouse	- 1						110	1354	3.67	3.67	1642.28			
	144			_	Pouthouse	- \					H	14	1554	3.67	3 67	1027.6			
163-164-631					2	Eas 4				-		144							
103-164-32			*		a	<u>C(15 4</u>	· · · · · · · · · · · · · · · · · · ·	\dashv			- 15	120	1743	3.67	3.67	745.61			
	 	+	· · · · · ·		Basement -	Enst					[4	12. <u>Z.</u>	1743	3.67	3.67	737.67			
103-PLA-33					Basement - 1	ent.	,				11	126	1747	3.67	21.7	237,67			
103-P64-034		اخر			7	/ \					l I	_	165	3.61					
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SCHNEIDER LABORATORIES GLOBAL, INC.

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Submitting Co.	066U-TI	EC inc.				Lab WO#			P	hone	816-230	-5580		,	
4151 N. Mulbern	/ Drive, S	uite 275	i			Acct#	3505			Fax / Imail	816-994	-3470 / ja	ayhurst@oc	cutec.com	
Kansas City, MO	64116					**State of Collection	e of "Cert. Yes No Required Yes No								
Project Name:	Goodfe	llow	103					ial Instructio	ons (incl	lude red	uests fo	r special ı	reporting or	data packa	ges]
Project Location:	St. Lou	is. MO					****					 			
Project Number:		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		-		·		· · · · · · · · · · · · · · · · · · ·					
PO Number:	010020														
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2 hours					uld be of SAME		Asbestos ir				os in Bu	LL that Ap		letals-Total	
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2 business days	6* †	☐ Aqu	eous	□ v	Vaste	TEM	(EPA Level	lí)	PLN	/ (Quali	tative only	n - [TCLP	
☑ 3 business days	3* †	☐ Bull	,	□ v	Vastewater	Mis	scellaneous	Tests	☐ NYE	ELAP			TCLP / L	ead	
5 business days	s*†	☐ Hi-V	ol Filter (PM10) 🔲 V	Vater Drinking	☐ Total	Dust (NIOS	H 0500)	CAE	ELAP (F	oint Cour	nt)	TCLP / R	CRA Metal:	s
* Not available for all	tests	☐ Hi-V	of Fifter (TSP)		ompliance	Resp	. Dust (NIC	SH 0600)	TEM	/ (Chatf	ield)		TCLP / F	ull (w/ orga	nics) 10 day
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DATE / TIME				DATE	TIME 2/23	PB	<u>50</u>	-	(b) (6	D)			IZ-FX-	UPS DB	🛘 изм
☐ Sample return				□ lc	e CI		ROSO	X 🗷 Re					WB:	<u> </u>	_10
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Specialists in Microanalysis

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 29, 2016

Attention:

Jay Hurst

Occu-Tec, Inc.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2246OCCA.5

Goodfellow 103 Project

OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 23, 2016. These samples represent the final clearance TEM samples for the Goodfellow 103 Project -OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the ten (10) samples taken inside the work area are summarized in Table I. TEM sample analysis printouts are also attached. Please note that the average number of asbestos structures per square millimeter (s/mm²) is 17.7 s/mm², which is below the specified clearance level of 70 s/mm² (40CFR Part 763).

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

Kevin R. Bean, B.A. Senior Analyst



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow 103 Project - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.5

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I026	103-AA-026	NSD	NA	2368	0.0029	BDL (0.0029)*	BDL (17.7)*
1028	103-AA-028	NSD	NA	2280.5	0.0030	BDL (0.0030)*	BDL (17.7)*
I029	103-AA-029	NSD	NA	2248.4	0.0030	BDL (0.0030)*	BDL (17.7)*
· I031	103-AA-031	NSD	NA	1630.1	0.0042	BDL (0.0042)*	BDL (17.7)*
I032	103-AA-032	NSD	NA	1614.0	0.0042	BDL (0.0042)*	BDL (17.7)*
I034	103-AA-034	NSD	NA	1606	0.0043	BDL (0.0043)*	BDL (17.7)*
I035	103-AA-035	NSD	NA	1614	0.0042	BDL (0.0042)*	BDL (17.7)*
1033	103-AA-033	NSD	NA	1614	0.0042	BDL (0.0042)*	BDL (17.7)*
			•		Average	0.0038	17.7

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 6 Area Analyzed Per Sample: 0.0564mm² Non-Asbestos Debris: Non-Fibrous Debris

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6) Date: 2/29/16 Senior Analyst

^{*} Single fiber detection limits are used when no structures are detected.



Results Transmitted/Date:

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E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

	20011 750 1120		040.00	4 5500	040 001 1	170
Company		Telephone #	<u>816-23</u>		x #: 816-994-3	3470
	ay Hurst	_ Client Pr	oject Numb	er: 91602	9	
Relinquished b	by: (b) (b)	Date: _	1-23-	(6	Time: 085	0
	t To: jayhurst@occutec.com; jsmith@	Doccutec.	com		·	
Project Name:	Goodfellow 103					
Turn-Around	Fime: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour	2(3 Day)	4-5 Day Wee	ekend Rush Afte	r Hour Rush
Kor Laboraco s	SECOTO					
MSE Project#	: MSE- 1746OCCA. SComments					
Samples Recei	_{ved by: [} (b) (6)	-Date: _	7.24.	16	Time: 10	as Am
Sample To Be	Analyzed by: TEM AHERA / EPA 40CFR Pa	rt 763		· · · · · · · · · · · · · · · · · · ·		
Samples Prepa	red By:	Method:	Burdett	& Rood		
Samples Analy	zed By:	Date:				
			 		· · · · · · · · · · · · · · · · · · ·	
Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time	x Liters/Minute =	= Volume
103-AH-013	2 nd - B-13	0757	1121	204	8.03	1638.1
103 - AA - 014	2M - E31	0806	1126	200	8.03	1606.0
103-AA-015	2nd - F36	0113	1132	199	8.03	1598
103 -AA- OLG	2nd - 639	0820	1136	196	8.03	1573.9
103-AA-017	2ml - F 33	0526	1139	(43	7.03	1549.8
103-AA-018	1 (1	0534	1214	220	1.03	1766.6
103 - AA-019	15+ - D32	0840	1158	198	8.03	1589.9
103-AA-020	12+ - D36	0905	1202	177	8.03	1421.3
103-AL-021	15t - H36	0913	1205	172	9.07 1381, 2-KM	1351.2
103-AA-022		0923	1219	176	8.03	1413.3
103 - AA -023	44 000	0935	1222	167	5.03	1341
103-AA-024		0945	1231	166	8.03	1333
103-AA-025		0950	1237	1107	8.03	1341
103-AA-026	10 11	1037	1532	295	8.03	2368
1 03-44-02 1	1 1		+			
•						

Fax/Phone By:



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E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: O	CCU-TEC INC.	Гelephone #	: 816-23°	I-5580 Fa	ıx #: <u>816-994</u>	-3470
Contact: Ja	y Hurst	_ Client Pi	oject Numb	er: 91602	29	
Relinquished by	(b) (6)	_ Date: _	2-23-10		Time: 08	50
Written Report	To: jayhurst@occutec.com; jsmith@	occutec	.com			
Project Name:	Goodfellow 103					
Turn-Around T	ime: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour	2-3 Day	4-5 Day We	ekend Rush A	fter Hour Rush
Powedowa Care	750077B			<u>.</u>		
Policio (nacional de la companya de	and the state of t		1-			
MSE Project #:	MSE- 2246 OCCA, 5 Comments	: Into	act_			
Samples Receive	ed by: _(b) (6)	- Date:	2.24	.16	Time: 10	OS AV
Sample To Be A	nalyzed by: TEM AHERA / EPA 40CFR Pa	rt 763	·			
Samples Prepar	ed By:	Method	: Burdett	& Rood		
Samples Analyz	ed By:	Date:				
<i>.</i>		_	- -	 -		
Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time	x Liters/Minute	e = Volume
102-AA - 02T	Penthouse 1	1110	1554	274	8.03	7280.5
103-AA - 029	Penthouse 1	1114	1554	280	5.03	2748.4
103 AA 030						
103-AA-031	East	1420	1743	203	8.03	1630.7
103-44-632	Basement East	1422	1743	201	T-03	1614.0
103-AA-034	Busement Middle	1428	1748	200	8.03	160%
103-AA -035	Casend Moddle	1430	1751	201	8.03	1614
103-AA-033	Baserent Middle	1426	1747	201	8.03	1614
						
						-
				• • • • • • • • • • • • • • • • • • •		
					L	1
Results Trans	nitted/Date:	Fax	«/Phone B	v:		

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Specialists in Microanalysis

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 29, 2016

Attention:

Jay Hurst

Occu-Tec, Inc.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2246OCCA.4

Goodfellow 103 Project

OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 24, 2016. These samples represent the TEM samples for the Goodfellow 103 Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the twelve (12) samples are summarized in Tables I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

Kevin R. Bean, B.A. TEM Senior Analyst



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow 103 Project - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.4

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I013	103-AA-013	NSD	NA	1638.1	0.0036	BDL (0.0036)*	BDL (15.2)*
I014	103-AA-014	NSD	NA	1606.0	0.0036	BDL (0.0036)*	BDL (15.2)*
I015	103-AA-015	NSD	NA	1598	0.0037	BDL (0.0037)*	BDL (15.2)*
I016	103-AA-016	NSD	NA	1573.9	0.0037	BDL (0.0037)*	BDL (15.2)*
I017	103-AA-017	NSD	NA	1549.8	0.0038	BDL (0.0038)*	BDL (15.2)*
I018	103-AA-018	NSD	NA	1766.6	0.0033	BDL (0.0033)*	BDL (15.2)*
I019	103-AA-019	NSD	NA	1589.9	0.0037	BDL (0.0037)*	BDL (15.2)*
I020	103-AA-020	NSD	NA	1421.3	0.0041	BDL (0.0041)*	BDL (15.2)*
1021	103-AA-021	NSD	NA	1381.2	0.0042	BDL (0.0042)*	BDL (15.2)*
I022	103-AA-022	NSD	NA	1413.3	0.0041	BDL (0.0041)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable

BDL = Below Detectable Limit CH = Chrysotile A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6) Senior Analyst:

^{*} Single fiber detection limits are used when no structures are detected.

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow 103 Project - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.4

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I023	103-AA-023	NSD	NA	1341	0.0044	BDL (0.0044)*	BDL (15.2)*
I024	103-AA-024	NSD	NA	1333	0.0044	BDL (0.0044)*	BDL (15.2)*
I025	103-AA-025	NSD	NA	1341	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)		
	Date: 2/29/16	
Senior Analyst:	Date.	_

s/mm² - asbestos structures per square millimeter

^{*} Single fiber detection limits are used when no structures are detected.



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E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: _	OCCU-TEC INC.	Telephone #	: 816-23	1-5580 Fa	x #: 816-994-	3470
Contact: Ja	ay Hurst	_ Client Pr	oject Numl	er: 91602	9	
Relinquished b	y: (b) (6)	_ Date: _	1-23-	16	Time: 07	٥
Written Repor	t To: jayhurst@occutec.com ; jsmith@	occutec.	com			
Project Name:	Goodfellow 03					
Turn-Around	Fime: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour	2 3 Day	4-5 Day Wee	kend Rush Aft	er Hour Rush
rasizaba da j	145C14C11					
MSE Project #	MSE- 1746-OCCA 4 comments	: Into	act			
Samples Receive	ved by: (b) (6)		2.24.	16	_ Time: <u>\</u> 02	s Am
Sample To Be	Analyzed by: TEM AHERA / EPA 40CFR Pa	ırt 763	<u>. </u>			
Samples Prepa	red By: (b) (6)	Method	Burdett	& Rood		
Samples Analy	zed By:	_ Date:	12/2	4116		
		_				
Client ID	Sample Location / Type	Start	Stop	Total Time	x Liters/Minute	- Volume
Number	(I)inside(O)outside(B)blank (P)personal(A)ambient	Time	Time	Total Time	x Liters/Minute	= volume
103-AH-013	2 ml - 8-13	0757	1121	204	8.03	1638.1
103 - AA - 014	2m - E31	0806	1126	200	7.03	1606.0
103-AA-015	2nd - F36	0113	1132	199	8.03	1598
103 -AA-016	2nd - 639	0820	1136	196	8.03	1573.9
103-AA-017	2ml - F 33	0826	1139	(43	1.03	1549.8
103-AA-018	15t - H32	0534	1214	220	1.03	1766.6
103-AA-019	15+ - D32	0840	1158	198	8.03	1589.9
103-AA-020	12t - D36	0905	1202	177	8.03	1421.3
103-AK-021	154 - H36	0913	1205	172	7.07 1381.24	1381.2
103-AA-022		0923	1219	176	8.03	1413.3
103-AA-023		0935	1222	167	5.03	1341
103-44-024	154 - 7 32	0945	1231	166	8-03	1333
103-AA-025	151 - F31	0950	1237	167	8.03	1341
103-AA-026	Penthouse 2	1037	1532	295	8.03	2368
1 03-44-02 1	- V.H.	<u> </u>				<u> </u>

Results Transmitted/Date: _____ Fax/Phone By: _____

1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

Specialists in Microanalysis

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 29, 2016

Attention:

Jay Hurst

Occu-Tec, Inc.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2246OCCA.1

Goodfellow 103 Project

OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 24, 2016. These samples represent the TEM samples for the Goodfellow 103 Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eleven (11) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

(b) (6)

S. Dewayne Lear, B.S. TEM Laboratory Director



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow 103 Project - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I001	103-AA-001	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
1002	103-AA-002	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
1003	103-AA-003	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I004	103-AA-004	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
1005	103-AA-005	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
1006	103-AA-006	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
1007	103-AA-007	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
1008	103-AA-008	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
1009	103-AA-009	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I010	103-AA-010	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable

BDL = Below Detectable Limit CH = Chrysotile

ile A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director:

Date: 22916

McCall and Spero Environmental, Inc.

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

^{*} Single fiber detection limits are used when no structures are detected.

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow 103 Project - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I011	103-AA-011	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 285

Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite SAED=Selected Area Electron Diffraction EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

^{*} Single fiber detection limits are used when no structures are detected.



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TEM AHERA CHAIN OF CUSTODY FORM

Company: O	CCU-TEC INC.	т	Telephone #:	816-231		«#: <u>816-994</u>	-3470
Contracti	y Hurst		_ Client Pro	oject Numb	er: 91602	9	
Relinquished by	(b) (6)		_ Date: _7	2-23-1	6	Time: 08	50
		ccutec.com; jsmith@	occutec.	com			······································
Project Name:	Goodfellow ()3					
Turn-Around T	ime: (Circle One)	4 Hour 6-8 Hour(same day)	24 Hour	2(3 Day)	4-5 Day Wee	kend Rush Af	fter Hour Rush
Barbara (6.78	ST-2004/4				·		
			, ,	,			
MSE Project #:	MSE-10-241	OCCA . Comments		act			,
Samples Receive	ed by: (b) (6)			2.24.	16	Time: 10	00 AM
		AHERA / EPA 400 R Pa					
Samples Prepar	red By: (b) (6)		Method:	Burdett	& Rood		
Samples Analyz	zed By:		Date:	212	416		
Client ID	Sample I	ocation / Type	Start	Stop		T. 1. (2.51)	-
Number		plank (P)personal(A)ambient	Time	Time	Total Time	x Liters/Minute	e = Volume
103-AN-GO(1 ⁶⁷ Floor	IF	0715	1000	165	8.03	1324.95
103-44-002	15+ Floor	73	0722	1007	165	8.03	1324.95
103-AA-GO3	1st Floor	F5	0732	1017	165	8.03	1324.95
163-AB-004	15t Floor	810	0745	1030	165	8.03	1324.95
103-411-005	2nd Floor	<u> </u>	0757	1047	165	8.03	1324.95
103-AA -006	2nd Floor	Ble	0000	1045	165	8.03	1324.95
103-AA -007		6 2.5	0105	1050	165	5.03	1324.95
103-4 A -008		6 6.5	0810	1055	165	8.03	1324.95
103-Ak -009	2nd Floor	H-13	0813	1058	165	8.03	1324.95
103 -AA -010	Znd Floor	F20	0817	1103	165	8.03	1324.95
103-AA -011		B-27	0812	1107	165	8.03	1324.95
103-AA-012	Blunk		_	_			
		······································	<u> </u>		<u></u>		
Results Trans	smitted/Date:		Fax	k/Phone B	y:		
TODAKO TIGILO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				-		

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDIN	NG 103D		
	Asbestos TEM	I Air Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103D-AA-001	1st Floor Column L-38	<15.2	s/mm ²	70 s/mm ²
103D-AA-002	1st Floor Column N-36	<15.2	s/mm ²	70 s/mm ²
103D-AA-003	1st Floor Column L-35.5	<15.2	s/mm ²	70 s/mm ²
103D-AA-004	1st Floor Column N-31	<15.2	s/mm ²	70 s/mm ²
103D-AA-005	2nd Floor Column N-31.5	<15.2	s/mm ²	70 s/mm ²
103D-AA-006	2nd Floor Column N-37	<15.2	s/mm ²	70 s/mm ²
103D-AA-007	2nd Floor Column P-35	<15.2	s/mm ²	70 s/mm ²
103D-AA-008	2nd Floor Column L-34	<15.2	s/mm ²	70 s/mm ²
103D-AA-009	Basement	<15.2	s/mm ²	70 s/mm ²
103D-AA-010	Basement	<15.2	s/mm ²	70 s/mm ²
103D-AA-011	Basement	<15.2	s/mm ²	70 s/mm ²
103D-AA-012	Blank		Not Analyzed	
	Lead Air	Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103D-PbA-001	1st Floor Column L-38	<3.07	μg/m³	30 μg/m ³
103D-PbA-002	1st Floor Column N-36	<3.03	μg/m³	30 μg/m ³
103D-PbA-003	1st Floor Column L-35.5	<3.15	μg/m³	30 μg/m ³
103D-PbA-004	1st Floor Column N-31	<3.19	μg/m³	30 μg/m ³
103D-PbA-005	2nd Floor Column N-31.5	<3.17	μg/m³	30 μg/m ³
103D-PbA-006	2nd Floor Column N-37	<3.31	μg/m³	30 μg/m ³
103D-PbA-007	2nd Floor Column P-35	<3.27	μg/m³	30 μg/m ³
103D-PbA-008	2nd Floor Column L-34	<3.31	μg/m³	30 μg/m ³
103D-PbA-009	Basement	<3.52	$\mu g/m^3$	30 μg/m ³
103D-PbA-010	Basement	<2.69	μg/m³	30 μg/m ³
103D-PbA-011	Basement	<2.69	μg/m³	30 μg/m ³
103D-PbA-012	Blank	<2.00	μg	30 μg/m ³

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDING	G 103D								
Lead Surface Dust Wipe Samples										
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level						
103D-PbW-001	2nd Floor Column N-36 Desk Top	<10	μg/ft²	200 μg/ft ²						
103D-PbW-002	2nd Floor Column N-34 Copier Table	<10	μg/ft ²	200 μg/ft ²						
103D-PbW-003	2nd Floor Column L-33 Shelf	<10	μg/ft²	200 μg/ft ²						
103D-PbW-004	1st Floor Column N-33 Top of Light	164	μg/ft²	200 μg/ft ²						
103D-PbW-005	1st Floor Column P-34 Window Sill	<10	μg/ft ²	200 μg/ft ²						
103D-PbW-006	1st Floor Column L-37 Floor Tile	<10	μg/ft²	200 μg/ft ²						
103D-PbW-007	Blank	<10	μg	200 μg/ft ²						
	Lead Surface Dust Mi	cro-vac Samples								
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level						
103D-PbV-001	2nd Floor Column N-36 Carpet	<92.9	μg/ft²	$200 \mu g/ft^2$						
103D-PbV-002	2nd Floor Column N-34 Carpet	<92.9	μg/ft²	200 μg/ft ²						
103D-PbV-003	2nd Floor Column L-33 Ceiling Tile	<92.9	μg/ft ²	200 μg/ft ²						
103D-PbV-004	1st Floor Column N-33 Ceiling Tile	<92.9	μg/ft²	$200 \mu g/ft^2$						
103D-PbV-005	1st Floor Column P-34 Carpet	<92.9	μg/ft²	200 μg/ft ²						
103D-PbV-006	1st Floor Column L-37 Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²						
103D-PbV-007	Blank	<10	μg	200 μg/ft ²						



SAMPLE LEGEND

▲ = SAMPLE LOCATION

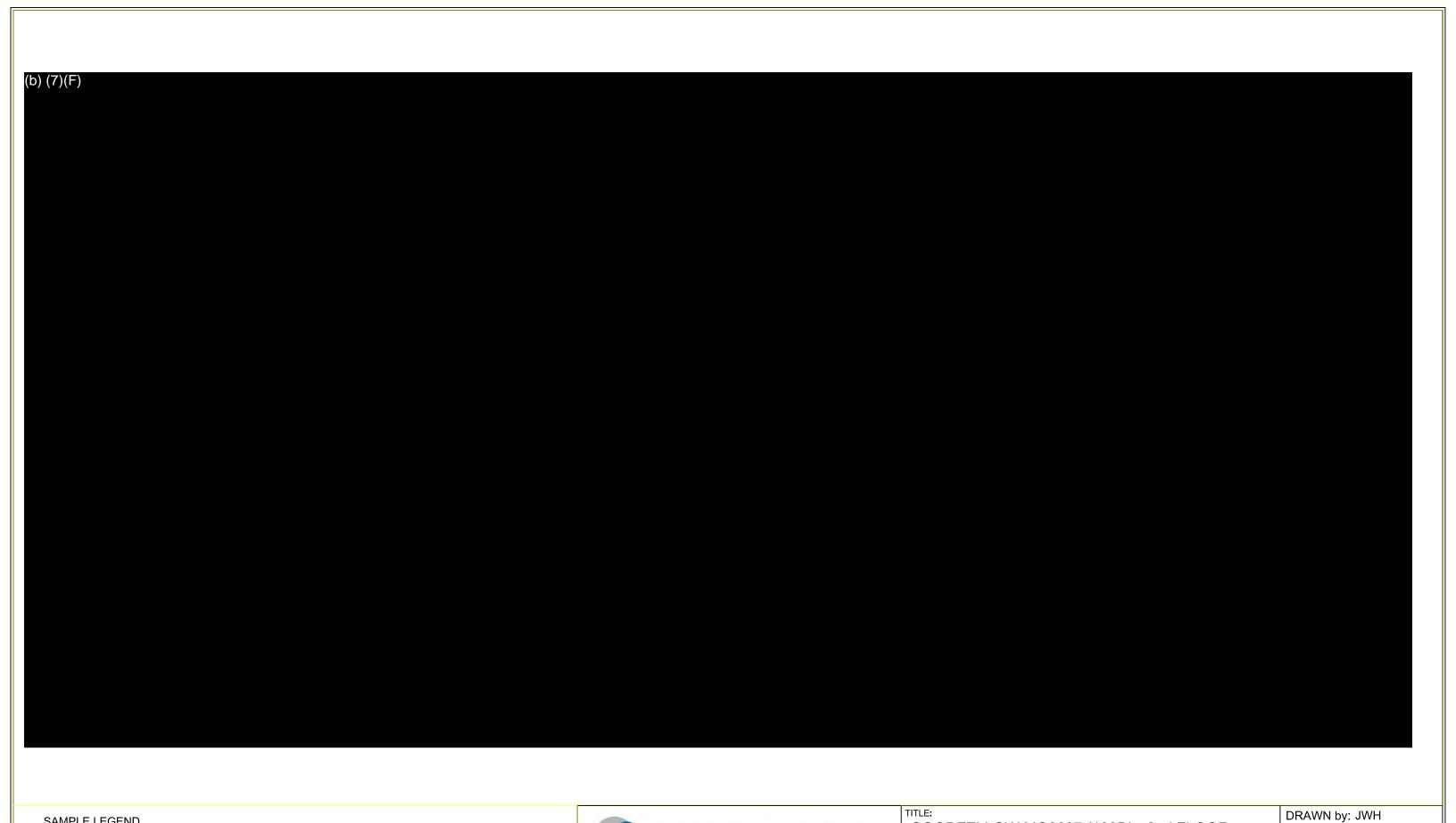
AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH
GOODFELLOW MO0607 (103D) - Basement	SUB. DATE: 03/04/16
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	
PROJECT NAME:	SCALE: NTS
T NOSECT NAME.	

916029



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



	DRAWN by: JWH
GOODFELLOW MO0607 (103D) - 2nd FLOOR	SUB. DATE: 03/04/16
CLIENT NAME:	
GENERAL SERVICES ADMINISTRATION	

GOODFELLOW GS-P-16-16-GZ7025

SCALE: NTS 916029



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE

PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



GOODFELLOW MO0607 (103D) - 1st FLOOR
CLIENT NAME:
CENTED AT CEDVICES ADMINISTRATION

GENERAL SERVICES ADMINISTRATION

GOODFELLOW GS-P-16-16-GZ7025

SUB. DATE: 03/04/16 SCALE: NTS 916029

DRAWN by: JWH



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505)

Address: 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn:

Project: Goodfellow 103D St Louis, MO

Location: 016020 Order #: 159452

Matrix Air

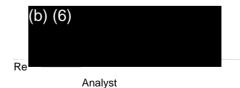
Received 02/22/16 Analyzed 02/23/16 02/29/16 Reported

DO Number

Number:	916029				PC) Nu	mber:				
Sample ID	Cust. ID	Location	Da	te	Tir	ne	FI	ow	Volu	me	
Parameter		Method		To	otal		RL*	1 1 1 1	Conc.		8 Hr TWA
159452-001	103D-PbA-001	L38 1st Floor	02/16	/16	178	min	3.67	L/min	65:	3 L	
Lead		NIOSH 7082M		1 1 1	<2.00 µg	1	2.00 µg	 	<3.07 µg/m3		<1.14 µg/m3
159452-002	103D-PbA-002	N36 1st Floor	02/16	/16	180	min	3.67	L/min	66 ⁻	1 L	
Lead		NIOSH 7082M		 	<2.00 µg	1	2.00 µg	 	<3.03 µg/m3		<1.14 µg/m3
		Endcaps miss	ing; possible cr	oss-conta	amination	or s	•				
159452-003	103D-PbA-003	L35.5 1st Floor	02/16	/16	173	min	3.67	'L/min	63	5 L	
Lead		NIOSH 7082M		1 1 1	<2.00 µg	1	2.00 µg	 	<3.15 μg/m3		<1.14 µg/m3
159452-004	103D-PbA-004	N31 2nd Floor	02/16	/16	171	min	3.67	L/min	628	3 L	
Lead		NIOSH 7082M		 	<2.00 µg		2.00 µg	1 	<3.19 µg/m3		<1.14 µg/m3
159452-005	103D-PbA-005	N31.5 2nd Floor	02/16	/16	172	min	3.67	L/min	63 ⁻	1 L	
Lead		NIOSH 7082M		 	<2.00 µg	-	2.00 µg	 	<3.17 μg/m3		<1.14 µg/m3
159452-006	103D-PbA-006	N37 2nd Floor	02/16	/16	165	min	3.67	L/min	600	6 L	
Lead		NIOSH 7082M		! ! !	<2.00 µg		2.00 µg		<3.31 µg/m3		<1.14 µg/m3
159452-007	103D-PbA-007	2nd Floor P35	02/16	/16	167	min min	3.67	L/min	613	3 L	
Lead		NIOSH 7082M		! ! !	<2.00 µg		2.00 µg		<3.27 μg/m3		<1.14 µg/m3
159452-008	103D-PbA-008	2nd Floor L34	02/16	/16	165	min	3.67	L/min	600	6 L	
Lead		NIOSH 7082M		! ! !	<2.00 µg		2.00 µg		<3.31 µg/m3		<1.14 µg/m3
159452-009	103D-PbA-009	Basement	02/16	/16	155	min	3.67	L/min	569) L	
Lead		NIOSH 7082M		!	<2.00 µg	1	2.00 µg	 	<3.52 μg/m3		<1.14 µg/m3
159452-010	103D-PbA-010	Basement	02/16	/16	203	min	3.67	L/min	74	5 L	
Lead		NIOSH 7082M		! ! !	<2.00 µg	1	2.00 µg	! ! !	<2.69 µg/m3		<1.14 µg/m3
159452-011	103D-PbA-011	Basement	02/16	/16	203	min	3.67	L/min	74	5 L	
Lead		NIOSH 7082M		1 1 1 1	<2.00 µg	1	2.00 µg	1 	<2.69 µg/m3		<1.14 µg/m3
159452-012	103D-PbA-012	Blank	02/16	/16							
Lead		NIOSH 7082M		1 1 1	<2.00 µg	1 1 1	2.00 µg	1 			

Analyst: OHE

159452-02/29/16 11:02 AM



OSHA 8 Hr Permissible Exposure Limit (PEL)

PEL **Parameter**

Lead $0.0500 \text{ mg/m}^3 [50.0 \, \mu\text{g/m}^3]$

Report Amended. Revised location for samples 103D-PbA002, and 005 per customer request.

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



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V:\159\159452

Submitting Co. OCCU-TE	C Inc.		Lab WO#			Phon	816.23	0-5580		<u>-</u>	$\overline{}$
4151 N. Mulberry Drive, St	uite 275		Acct#	3505		Fax Emai		816-994-3470 / jayhurst@occutec.com			
Kansas City, MO 64116			**State of Collection	7 (84) 7 7		**Cer Reguir	ե	Yes	aynurst@oc ⊠ No	cutec.com	
Project Name: Goodfel	llow - (03 D				ial instructi	ons [include		or special	reporting or	data packa	:ges]
Project Location: St. Loui	s, MO										
Project Number: 916029							:		······································	<u> </u>	
PO Number:			·····								
Turn Around Time (TAT)	Matrix / Sample	e Type (Select ONE)			Te	sts / Analyte	s (Select)	Al Lithat A	anlu\		
2 hours*	All samples on fo	rm should be of SAME		Asbestos i			estos in B			letals-Total	
☐ Same day• †	шашх iypa. Use ad	ditional forms as needed.	PCM	(NIOSH 74	00)	☐ PLM			⋉ Lead		
1 business day †	⊠ Air	Solid Solid	☐ TEM	(AHERA)		PLM (Po	int Count)		RCRA M	etals	
2 business days* †	Aqueous	☐ Waste	TEM	(EPA Level	11)	PLM (Qu	alitative on	ly)		TCLP	
3 business days⁺ †	☐ Bulk		Mis	cellaneou	Tests	☐ NYELAP			TCLP/L	ead	.:
☐ 5 business days* †	☐ Hi-Vol Filter (PM10	Water, Drinking	☐ Total	Dust (NIOS	H 0500)	CAELAP	(Point Cou	int)	TCLP / R	CRA Metals	3 .
* Not available for all tests	☐ Hi-Vol Filter (TSP)	Compliance	Resp.	Dust (NIC	SH 0600)	TEM (Ch	atfield)		TCLP / F	ull (w/ orgar	1 CS) 10 day
t will begin its TAT the	Oit	⊠ Wipe	☐ Silica	- FTIR (NIC	OSH 7602)		·	<u> </u>	м	icrobiology	,
next business day	Paint	☐ Wipe, Composite	Silica - XRD (NIOSH		SH 7500)	FOR ASBESTOS AIR:			☐ BACT (MPN & P/A)		
motole & wookened teets in	Słudge	Micro-Vac Dust		Other		TYPE OF R	ESPIRATO	R	☐ Mold Direct Exam		
advance.	□ _{Soil}		<u> </u>				a en				
Da Sample # Samo	Branch and Alberta Committee of the Comm	Sample Iden			Wiped	pH/	Ti	me ²	Flow	Rate ³	Total ⁴
V.4V.5533	CAR SERVICE CONTRACTOR	(Employee, SSN, Bldc		I, Type¹)	Area (ft²)	Temp *	Start	Stop	Start	Stop	Air
1038-PSA-001 2/4/1	4	L38 1st floor	•				842	1140	347	3.47	५५ ७. १५
1030-PbA-002		L36 15+ Floor	or				850	1150	3.47	3.47	<u>دړ</u> ن.ږ
1630-PLA-665		L 35.5 1 st flo	206				859	1152	3.47	3.67	634.91
1030-PbA-004		N31 2nd fla	201				905	1134	3.67	3.47	627.57
108D-PBA-005		P31.5 2nd F1	001				918	1210	3.47	3.47	C31.24
1030-PbA-004		N37 2nd floo	o(951	1234	3.47	3.47	405.55
103D-PbA-607		2nd floor P	35				985	1242	3.47		612.9
1050-9611-008		2nd floor L3	34				1000	1245	3.47	3.47	605.55
1030-964-007		Basement				JA	1113	1348	3.67	3.47	568.9
103D-PBA-010		Basement					1150	1513	3.47	3.47	745.0
¹ Type: A=Area I All soil and and	B=Blank P=Personal E=E	xcursion ² Beginning/End of t nt in adequate quantity for dupli	Sample Peri	od ³ Pump C	allbration in L	iters/Minute 4	o Lume in L	iters [time in	min × flow in	L/min]	
due to a ta	ick of sample quantity, will	lead to a disclaimer on the repo	ort. All proble	em jobs witho	ut customer ret	sponse held ove	ar 30 days w	rill be voided	and disposed o	of.	
Sampled by	1	Relinquished	to lab by	1				_	l	mple Disp to Sender	
N: - Justia Arno		NAME Keyon	Here	tard	一つ	1-2	2 - (ର 🏻	Dispos	sal by lab	
t (τυκε (b) (6)	GIGNATURE (b) (6)								for excessive w	······································	
DATE / TIME 2-			-16,	160	(D)	(6)				UPS I	
Sample return requested		Chain-of-Custody documentation		R Str				`	WB:	772	<u>. </u>

SLG

SCHNEIDER LABORATORIES GLOBAL, INC.

Submitting Co.				Lab WO#	T .							
	CCU-TEC In	c.		CSD WOR			Phone	816-23	0-5580	<u> </u>		
4151 N. Mulberry	Drive, Suite	275		Acct#	3505		Fax / Email		4-3470 /	jayhurst@o	ccutec.com	n .
Kansas City, MO	4116			**State of Collection	Missouri		**Cert Require] Yes	. ⊠ No		
Project Name: G	ioodfellow	· -103 1]	cial instructi	ons [include	equests 1	or special	reporting o	r data pack	ages]
Project Location: S	t. Louis, N	10									· · · · · · · · · · · · · · · · · · ·	
Project Number: 9	16029											
PO Number:											: 1	
Turn Around Time	(TAT)	Matrix / Samo	le Type (Select ONE)			T.		(Coloot				
2 hours*		All samples on t	orm should be of SAME		Asbestos I		98ts / Analytes	stos in B			fietals-Tota	1
☐ Same day* †	m	<u>atrix type.</u> Use a	dditional forms as needed.		(NIOSH 7		PLM	3100 HI D	WIN .	X Lead	netals-10ta	<u> </u>
1 business day †	(X		☐ Solid	TEM	(AHERA)		PLM (Poir	nt Count)		RCRA N	letals	
☐ 2 business days*† ☐ Aqueous ☐ 3 business days*† ☐ Bulk		☐ Waste	TEM	(EPA Leve	l II)	PLM (Qua				TCLP		
		Bulk		Mit	scellaneou	s Tests	NYELAP		•	TCLP / L		
		0) 🔲 Water, Drinking				CAELAP (Point Count)			TCLP / RCRA Metals			
* Not available for all te	sts 🔲 H	li-Vol Filter (TSP)	Compliance	Resp	Dust (NIC	OSH 0600)	TEM (Cha	tfield)		TCLP / F	ull (w/ orga	nics) 10 day
A job received past 3 † will begin its TAT the	1—		☑ Wipe	☐ Silica	FTIR (NI	OSH 7602)			· · ·		licroblolog	
next business day	□ F		☐ Wipe, Composite	☐ Silice	- XRD (NI	OSH 7500)	FOR AS	BESTOS	S AIR:	BACT (N		
Schedule rush organic ngtals & weekend te		ilu dg e	Micro-Vac Dust	-	Other		TYPE OF RE	SPIRATO	R	Mold Dir	ect Exam	
advance.	sts in D s	Soil			المسارية والمساور		USED:	2	ريد ريد ده			<u> </u>
Sample #	-Date Sampled	Time ** Sampled**	Sample Ider (Employee, SSN, Bid		al Type¹)	Wiped Area (ft²)	pH/ Temp*	Ti Start	me ² Stop	Flow Start	Rate ³ Stop	Total ⁴ Air
1030-PbA-011	2/14/1	4				_	-	1(50	1513	3.47	3.47	745.0
1030-124-012	V		Base ment BLANK			_	_	_	-	-	*****	
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[†] Tvne:	A=Area R=Ris	nk Paparanai Sal	voussian 20 minute (Feb.									
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DATE / TIME			DATE / TIME		·		(5) (5)			Ø FX □ HD	UPS !	🗖 пем
I Sample return re	quested 🗆	Ambient temp	□ lce C!		R S	Rece	oiv.			WB/_	42	



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Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159409

 Matrix
 Wipe

 Received
 02/22/16

 Analyzed
 02/22/16

 Reported
 02/29/16

Project Goodfellow-103D
Location St. Louis, MO
Number 916029

Number	916029						
Sample ID	Cust. Sample ID	Location	Sample Date			•	D1 *
Parameter 159409-001	103D-PbW001	Method 2nd Floor N36 Desk	02/16/16	a	Total	Conc.	RL*
Lead	103D-PDVV001	EPA 7000B / 3050B) ft2	<10.0 µg/wipe	-10.0 ua/#2	10.0 µg/ft2
				J 112	<10.0 μg/wipe	<10.0 µg/ft2	10.0 μg/π2
159409-002	103D-PbW002	2nd Floor N34 Table	02/16/16	2 (10	40.0		10.0 (10.0
Lead		EPA 7000B / 3050B	1.00	0 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159409-003	103D-PbW003	2nd Floor L33 Shelf	02/16/16				
Lead		EPA 7000B / 3050B	1.00	0 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159409-004	103D-PbW004	1st Floor N33 Light	02/16/16				
Lead		EPA 7000B / 3050B	1.00	0 ft2	164 µg/wipe	164 µg/ft2	10.0 μg/ft2
159409-005	103D-PbW005	1st Floor P34 Win Sill	02/16/16				
Lead		EPA 7000B / 3050B	1.00	0 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159409-006	103D-PbW006	1st Floor L37 Floor	02/16/16				
Lead		EPA 7000B / 3050B	1.00	0 ft2	<10.0 µg/wipe	<10.0 μg/ft2	10.0 μg/ft2
159409-007	103D-PbW007	Blank	02/16/16				
Lead		EPA 7000B / 3050B			<10.0 µg/wipe		10.0 μg/wipe
159409-008	103D-PbV001	2nd Floor N36 Carpet	02/16/16				
Lead		EPA 7000B - Vacwipe / 305	0B 0.10	08 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159409-009	103D-PbV002	2nd Floor N34 Carpet	02/16/16				
Lead		EPA 7000B - Vacwipe / 305	0B 0.10	08 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159409-010	103D-PbV003	2nd Floor L33 CT	02/16/16				
Lead		EPA 7000B - Vacwipe / 305	0B 0.10	08 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159409-011	103D-PbV004	1st Floor N33 CT	02/16/16				
Lead		EPA 7000B - Vacwipe / 305	0B 0.10	08 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159409-012	103D-PbV005	1st Floor P34 Carpet	02/16/16				
Lead		EPA 7000B - Vacwipe / 305	0B 0.10	08 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159409-013	103D-PbV006	1st Floor L37 Ceil. Tile	02/16/16				
Lead		EPA 7000B - Vacwipe / 305	0B 0.10	08 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159409-014	103D-PbV007	Blank	02/16/16				

Report Amended. Revised location for sample 103D-PbV005 per customer request.

Minimum Total Reporting Limit: $10.0 \,\mu\text{g/wipe}$. EPA Clearance Std: $40 \,\mu\text{g/ft}^2$ for floors, $250 \,\mu\text{g/ft}^2$ for interior window sills, and $400 \,\mu\text{g/ft}^2$ for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159409

 Matrix
 Wipe

 Received
 02/22/16

 Analyzed
 02/22/16

Project Goodfellow-103D Location St. Louis, MO Number 916029 **Reported** 02/29/16

Sample ID Cust. Sample ID Location Sample Date
Parameter Method Area Total

Lead EPA 7000B - Vacwipe / 3050B <10.0 µg/wipe

Analyst MHB 159409-02/29/16 10:59 AM (b) (6)

Reviewed by Derek Jackson

RL*

10.0 µg/wipe

Analyst

Conc.

Report Amended. Revised location for sample 103D-PbV005 per customer request.

Minimum Total Reporting Limit: 10.0 μg/wipe. EPA Clearance Std: 40 μg/ft² for floors, 250 μg/ft² for interior window sills, and 400 μg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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V:\159\159409

Submitting Co.	Submitting Co.				Lab WO#		1.	Phone	816-230-558					
4151 N. Mulberry D					Acct#	3505		Fax / Email	816-994-347) / im	uhurst@occ	utec.com	ļ	
Kansas City, MO 64		te 2/3			**State of Collection			**Cert. Required	Пу		⊠ No			
Project Name: Go	odfell	ow -	1030	-			ai Instructio	ns [include re	quests for spe	cial re	porting or	lata packag]	
Project Location: St														
Project Number: 91		,												
PO Number:	0010								······································					
Turn Around Time	(TAT)	M	fatrix / Sample	Type (Select ONE)			Ter	ats / Analytes	(Select ALL th	at App	oly)			
2 hours*				m should be of SAME		Asbestos in			tos in Bulk			etals-Total		
			litional forms as needed.	☐ PCM	(NIOSH 74	00)	☐ PLM		[2	I Lead				
1 business day* †	İ	X Air		Solid	□ ТЕМ	(AHERA)	.	PLM (Point	Count)		RCRA Me	tals		
2 business days* †		Aque	eous .	☐ Waste	TEM	(EPA Level		PLM (Qual	itative only)			TCLP		
☑ 3 business days* †	- 1	☐ Bulk		Wastewater	Mi	scellaneous		☐ NYELAP			TCLP / Le			
5 business days* † Hi-Vol Filter (PM			ol Filter (PM10)	Water, Drinking	-	Dust (NIOS		CAELAP (F	Point Count)		∐ TCLP / R			
* Not available for all tests Hi-Vol Filter (TSF			ol Filter (TSP)	Compliance	Resp	o. Dust (NIO	SH 0600)	TEM (Chat	field)	-	TCLP / FI	ıll (w/ organi	iCS) 10 day	
A job received past 3PM Oil t will begin its TAT the			(₩ Wipe		a - FTIR (NIC	· · ·)	<u> </u>			Microbiology			
next business day	. i.	☐ Pain		☐ Wipe, Composite Micro-Vac Dust		Silica - XRD (NIOSH 7500)			BESTOS AIR	I.				
Schedule rush organics netals & weekend tes	4-7-	□ Slud	•	Micro-vac Dust	-	Other		TYPE OF RES	SPIRATOR	☐ Mold Direct Exam				
advance.	1500000000	Soil	1 To 1 1 Tab Villa 1 Tab 1 1 1 1		-1		122	USED:	Time ²		Flow	Rate ³	Total*	
Sample #	Samp		Time Sampled**	Sample Ide (Employee, SSN, Bio			VViped Area (ft²)	pH / Temp *		lop	Start	Stop	Air	
103.0-PbW-001	2/14	14	10:15	2" floor N 3	4 Des	k	1sf			- 68,	/ 44	*		
103D-PbW-002			lozo	2nd floor N3	4 Tab	le_	156							
103D-PbW-003			J025	2nd floor L3	3 8h	df	Isf							
1030-PbW-004			035	1st floor N33	Ligh	<u> </u>	Ist			:				
163D-PbW-005			1040	1st floor P34 1	مانىدلىم	Sil	1sf							
1030-PbW-00Ce			1045	1st floor L37	floor		15F							
1030-95W-007	V	/		BLANK		-	-							
				,										
¹Type	: A=Area	B=Blank	P=Personal E=E	Excursion ² Beginning/End o	of Sample Po	eriod ³ Pump (Calibration in i	iters/Minute ⁴ V	o Lume in Liters	[time ir	min × flow i	n L/min]		
Alls	soil and aq due to a le	ueous sa ack of sa	amples must be se mple quantity, will	ent in adequate quantity for du lead to a disclaimer on the re	iplicate analy aport. All pro	vsis to be perfo blem jobs with	rmed per EPA i out customer re	requirements. Fa sponse held over	30 days will be	voided a	ana aisposea	Of.		
Sam	Sampled by Relinquis											ample Disp n to Sender		
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DATE / TIME 2-16 DATE / TIME 2-1					2 / 1	600		(b) (6	5)		FX HD	UPS DB		
Sample return re				Chain of Circledy documents	Line continue	RISI	X Rec	ceive a			- WB:_	11/2	_	

Phone

SLG

Submitting Co.

SCHNEIDER LABORATORIES GLOBAL, INC.

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Lab WO#

	OCCU-T	EC Inc.					·	7 = -	816-230	-2350				
4151 N. Mulberry	/ Drive. !	Suite 275	5		Acct#	3505		Fax / Email	816-994	-3470 / J	ayhurst@oc	cutec.com		
Kansas City, MO					**State of Collection			""Cert. Required		Yes	⊠ No			
Project Name:	Goodf	ellow	-1030	-		Spec	ial Instruction	ns [include r	quests fo	r special	reporting or	data packaç	je8]	
Project Location:		······································												
Project Number:														
PO Number:														
Turn Around Tin	ne (TAT)		Natrix / Sample	Type (Select ONE)			Tes	ts / Analytes	(Select A	LL that A	pply)			
☐2 hours*				m should be of SAME		Asbestos in			tos in Bu		' '	letais-Total		
☐ Same day* †		matri	x type. Use add	ditional forms as needed.	PCN	1 (NIOSH 74	00)	☐ PLM		1.5	⊠ Lead	. 33		
1 business day	+	⊠ Air		Solid.	TEM	(AHERA)	. [1	PLM (Poir	t Count)		RCRA M	etals		
2 business days*† Aqueous		eous	☐ Waste	TEM	(EPA Level	R)	PLM (Qua	litative only	()		TCLP			
☑ 3 business days*† ☐ Butk		c .		M	scellaneous	Tests	NYELAP			TCLP / L	ead			
5 business days	s* †	☐ Hi-/	ol Filter (PM10) Water, Drinking	☐ Tota	Dust (NIOS	H 0500)	CAELAP (Point Cou	nt)	TCLP / R			
* Not available for all	tests .	☐ Hi-\	/ol Filter (TSP)	Compliance	Res	Dust (NIC	SH 0600)	TEM (Cha	tfield)		TCLP / Full (w/ organics) 10 day			
A job received past 3PM Oii			⊠ Wipe	☐ Silic	a - FTIR (NiC	OSH 7602)			!.	Microbiology				
† will begin its TAT the next business day		nt	Wipe, Composite		a - XRD (NIC	SH 7500)	FOR AS	BESTOS	AIR:	BACT (M	PN & P/A)			
Schedule rush organics, multi-			Micro-Vac Dust	<u>- </u>	Other			SPIRATO	R	Mold Direct Exam				
advance.	7 (500) 111	□ _{Soil}	·	<u> </u>				USED:	· · · · · · · · · · · · · · · · · · ·					
Samula #	0.00 7.00	Date	Time	Sample Ide			Wiped	pH / _	Start	ne ² Stop	Start	Rate ³ Stop	Total ⁴ Air	
Sample #		npled**	Sampled**	(Employee, SSN, BI	og, materi	ai, (ype)	Area (ft²)	Temp *	Olari .	GiOD	Giait	Olop	7-01	
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1030-PbU-60	Z			2nd floor N34	1 Car	oct								
1030-PbU -00	3			2nd floor JA	_33 C	<u></u>				:				
163D-PbV-004	(1		1st Floor N	33 C	T								
103D-PBV-00	5			1st Floor P34	Windo	W	·							
103D-P6U-00	χę			1st floor L37	Cilia	Tile				:			<u> </u>	
103 A PBU-60	7 0			BLANK		,	_		÷					
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ידי י	ype: A=Ar	ea B=Blank	P=Personal E=F	xcursion ² Beginning/End ant in adequate quantity for d	of Sample Po	eriod ^s Pump (Calibration in Li	iters/Minute 4	o Lume in L	iters (time	In min × flow i	n Umin]		
· · · · · · · · · · · · · · · · · · ·	due to	a lack of sa	mple quantity, will	l lead to a disclaimer on the n	eport. All pro	blem jobs with	out customer res	sponse held ove	r 30 days w	ill be voide	d and disposed	of.		
S	ampled	by \		Relinquish	ed to lab	by					1	ample Disp n to Sender		
M Jus		rnolv		NAME Kevia		Ec		2	2-1	6	Dispo	sal by lab		
ture (b)	(6)			SIGNATURE (b) (6)			(le	o) (6)			Sh	ipping Met		
DATE / TIME VZ				DATE / TIME 2019	7	0 <u>0</u>		7 (9)			HD HD	UPS DB	USM	
Sample return				Chain-of-Custody documents		R S				ort.	WB:	161		

1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 25, 2016

Attention:

Jay Hurst

OCCU-TEC INC.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2226OCCA.1

Goodfellow Project

OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 22, 2016. These samples represent the TEM samples for the Goodfellow Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eleven (11) samples are summarized in Tables I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely. (b) (6)

Kevin R. Bean, B.A. Senior Analyst



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow Project - OCC# 916029

McCall and Spero Project No: MSE-2226OCCA.1

MSE		# of			Calculated Analytical		
Lab ID	Client ID	Asb. Struc.	Asb. Type	Sample Vol. (1)	Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
1001	103D-AA-001	NSD	NA	1437.4	0.0041	BDL (0.0041)*	BDL (15.2)*
1002	103D-AA-002	NSD	NA	1445.4	0.0040	BDL (0.0040)*	BDL (15.2)*
1003	103D-AA-003	NSD	NA	1392.7	0.0042	BDL (0.0042)*	BDL (15.2)*
1004	103D-AA-004	NSD	NA	1365.1	0.0043	BDL (0.0043)*	BDL (15.2)*
1005	103D-AA-005	NSD	NA	1381.1	0.0042	BDL (0.0042)*	BDL (15.2)*
1006	103D-AA-006	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
1007	103D-AA-007	NSD	NA	1341.01	0.0044	BDL (0.0044)*	BDL ₍ 15.2)*
1008	103D-AA-008	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
1009	103D-AA-009	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I010	103D-AA-010	NSD	NA	1630.1	0.0036	BDL (0.0036)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

Senior Analyst:

s/cc = asbestos structures per cubic centimeter

^{*} Single fiber detection limits are used when no structures are detected.

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow Project - OCC# 916029

McCall and Spero Project No: MSE-2226OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I011	103D-AA-011	NSD	NA	1630.1	0.0036	BDL (0.0036)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle NA = Not Applicable BI C=Cluster

M=Matrix

NSD=No Structures Detected

SAED=Selected Area Electron Diffraction

BDL = Below Detectable Limit CH = Chrysotile A = A extron Diffraction EDS-Energy Dispersive Spectrometry

A = Amosite

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

Senior Analyst:

Date: 2/25/16

^{*} Single fiber detection limits are used when no structures are detected.



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E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: O	CCU-TEC INC.	Telephone #:	816-231	-5580 Fa	x #: 816-994	-3470
Contact: Ja\	/ Hurst		oject Numb	04000	9	<u> </u>
Relinquished by	(b) (6)			16	Time: 170	<u>e</u>
Written Report	To: jayhurst@occutec.com; jsmith@	_	• •			
Project Name:	Goodfellow					
ŭ	ime: (Circle One) 4 Hour 6-8 Hour(same day)) 24 Hour	2-6 Day	4-5 Day Wee	ekend Rush A	fter Hour Rush
					 	
Topic Congression						
MSE Project #:	MSE- 77.7 LOCCA Comments	: Inta	ct			
Samples Receive	/I- \	Date:	2.22	:16	Time: 9	00 AM
Sample To Be A		rt 763				
	ed By: (b) (6)	Method	Burdett	& Rood		
Samples Analyz		Date:	2/2	216		
Client ID	Sample Location / Type	Start	Stop	m	- I :4 / M: 4	- Vol
Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Time	Time	Total Time	x Liters/Minute	e = voiume
1030-44-	LST 1st FLr	0842	1141	179	7.03	1437.4
- 44 - 0 201	1st Floor N36	6850	1150	180	 	1445.4
1030 - AA	15+ L35.5	0859	1152	173	-	1392.7
1030 - AA - 004	15+ N31	0905	1156	171	 	1366.1
1030 - AA	2nd N 31.5	0918	1210	172		1381.1
1030 - AA	2nd N 37	0951	1230	145		1324.95
103D-HA	2nd P 35	0955	1247	167		1341.01
1030 - AA-005	Businet	1000	1245	165		1324,95
63 D-44-009	Barnert	1113	1348	165	<u> </u>	1324.95
030-AA-010	Basement	1150	1513	203		1636.1
1030-AA-011	Blanks Kh Raserent	1150	1513	203	¥	1630.1
1030-AA-012	Blank	_	_			
					·	
		ļ				
			<u></u>			
				-		

Results Transmitted/Date: Fax/Phone By: _____

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDI	NG 103E		
	Asbestos TEM	I Air Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103E-AA-001	1st Floor Column N-27	<15.2	s/mm ²	70 s/mm ²
103E-AA-002	1st Floor Column L-28	<15.2	s/mm ²	70 s/mm ²
103E-AA-003	2nd Floor Column N-28	<15.2	s/mm ²	70 s/mm ²
103E-AA-004	2nd Floor Column L-27	<15.2	s/mm ²	70 s/mm ²
103E-AA-005	1st Floor Column N-21	<15.2	s/mm ²	70 s/mm ²
103E-AA-006	1st Floor Column P-21	<15.2	s/mm ²	70 s/mm ²
103E-AA-007	2nd Floor Column P-20.5	<15.2	s/mm ²	70 s/mm ²
103E-AA-008	Basement Column N-24	<15.2	s/mm ²	70 s/mm ²
103E-AA-009	Basement Column P-24	<15.2	s/mm ²	70 s/mm ²
103E-AA-010	Basement Column P-23	<15.2	s/mm ²	70 s/mm ²
103E-AA-011	Basement West Tunnel	<15.2	s/mm ²	70 s/mm ²
103E-AA-012	Blank		Not Analyzed	
	Lead Air	Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103E-PbA-001	1st Floor Column N-27	<3.41	μg/m³	30 μg/m ³
103E-PbA-002	1st Floor Column L-28	<3.08	μg/m³	30 μg/m ³
103E-PbA-003	2nd Floor Column N-28	<3.98	μg/m³	30 μg/m ³
103E-PbA-004	2nd Floor Column L-27	<4.13	μg/m³	30 μg/m ³
103E-PbA-005	1st Floor Column N-21	<3.98	μg/m³	30 μg/m ³
103E-PbA-006	1st Floor Column P-21	<4.13	μg/m³	30 μg/m ³
103E-PbA-007	2nd Floor Column P-20.5	<4.15	μg/m³	30 μg/m ³
103E-PbA-008	Basement Column N-24	<3.93	μg/m³	30 μg/m ³
103E-PbA-009	Basement Column P-24	<3.95	μg/m³	30 μg/m ³
103E-PbA-010	Basement Column P-23	<3.91	μg/m³	30 μg/m ³
103E-PbA-011	Basement West Tunnel	<3.95	$\mu g/m^3$	30 μg/m ³
103E-PbA-012	Blank	<2.00	μg	30 μg/m ³

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

BUILDING 103E											
	Lead Surface Dust Wij	oe Samples									
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level							
103E-PbW-001	2nd Floor - Column P-21 - Floor Tile	<10	μg/ft²	200 μg/ft ²							
103E-PbW-002	1st Floor - Column N-21 - Floor Tile	<10	μg/ft²	200 μg/ft ²							
103E-PbW-003	1st Floor - Column P-21.5 - Floor Tile	<10	μg/ft²	200 μg/ft ²							
103E-PbW-004	1st Floor - Column N-27.5 - Top of Duct	251	μg/ft²	200 μg/ft ²							
103E-PbW-005	2nd Floor - Column L-27 - Closet Floor	111	μg/ft²	200 μg/ft ²							
103E-PbW-006	Basement - Tunnel Floor	259	μg/ft²	200 μg/ft ²							
103E-PbW-007	Blank	<10	μg	$200~\mu g/ft^2$							
Lead Surface Dust Micro-vac Samples											
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level							
103E-PbV-001	2nd Floor - Column P-20 - Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²							
103E-PbV-002	1st Floor - Column N-L -20.5 - Top of Water Heater	<92.9	μg/ft²	$200~\mu g/ft^2$							
103E-PbV-003	1st Floor - Column L-N-21 - Top of Ceiling Tile	<92.9	μg/ft²	$200~\mu g/ft^2$							
103E-PbV-004	1st Floor - Column L-28 - Top of Mechanical Duct	<92.9	μg/ft²	200 μg/ft ²							
103E-PbV-005	2nd Floor - Column L-28 - Stair Tread	<92.9	μg/ft²	200 μg/ft ²							
103E-PbV-006	Basement - Column N-24 - Concrete Floor	1680	μg/ft²	200 μg/ft ²							
103E-PbV-007	Basement - Column P-23 - Concrete Stair to Tunnel	<92.9	μg/ft²	200 μg/ft ²							
103E-PbV-008	Basement - Column P 23 - Concrete Floor in Tunnel	1090	μg/ft²	200 μg/ft ²							
103E-PbV-009	Blank	<10	μg	200 μg/ft ²							



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



	DRAWN by: JWH		
,	SUB. DATE: 03/04/16		
CLIENT NAME:			
GENERAL SERVICES ADMINISTRATION			
	GOODFELLOW MO0608 (103E) - Basement		

PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025 SCALE: NTS 916029



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE

PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH
GOODFELLOW MO0608 (103E) - 2nd FLOOR	SUB. DATE: 03/04/16
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	
PROJECT NAME:	SCALE: NTS
GOODFELLOW GS-P-16-16-GZ7025	916029



▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE

PbW = LEAD WIPE SAMPLE

PbV = LEAD MICRO-VAC SAMPLE



GOODFELLOW MO0608 (103E) - 1st FLOOR
CLIENT NAME:
CENTED AL CEDY (ICEC ADMINISTRATION)

GENERAL SERVICES ADMINISTRATION

GOODFELLOW GS-P-16-16-GZ7025

SUB. DATE: 03/04/16

SCALE: NTS
916029



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 160223

 Matrix
 Wipe

 Received
 02/29/16

 Analyzed
 02/29/16

 Reported
 03/01/16

Project Goodfellow 103E
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
160223-001	103E-PbW-01	2nd FI Stair FI Tile	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
160223-002	103E-PbW-02	1st Fl Jan Closet Fl	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
160223-003	103E-PbW-03	1st FI N Entrance FI	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
160223-004	103E-PbW-04	1st FI S Mech Duct	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	251 μg/wipe	251 μg/ft2	10.0 μg/ft2
160223-005	103E-PbW-05	2nd Fl Jan Closet Fl	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	111 µg/wipe	111 μg/ft2	10.0 μg/ft2
160223-006	103E-PbW-06	Bsmt Fl Concrete	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	259 μg/wipe	259 μg/ft2	10.0 μg/ft2
160223-007	103E-PbW-07	Blank	02/25/16			
Lead		EPA 7000B / 3050B		<10.0 µg/wipe		10.0 μg/wipe

Analyst IH 160223-03/01/16 09:05 AM (b) (6)

Reviewed By Marti Baird Analyst



SCHNEIDER LABORATORIES GLOBAL, INC.

160223

V:\160\160223

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com

Submitting Co.	Co. OCCU-TEC Inc.					Lab WO#				Phone	816-230-5580						
4151 N. Mulberr	y Driv	e, Suite 2	275			Acct#	3505			Fax / Email			70 / jayhurst@occutec.com				
Kansas City, MO	6411	6	<u>.</u> .		·	**State of Collection	Missouri	Straight in 19 Fragan (A.)		**Cert. Required		Yes	X No	Company of the Company	m Normalis Care villo		
Project Name:	Goo	dfellow		03 <u>E</u>				cial Instructi		n DANIER THE STATE	days, T.	for specia	l reporting	or data naci	(Agos)		
Project Location:	St. L	ouis, M	0				·	7		· · ·			· roporting	outa paci	vades!		
Project Number:	9160	29										······································					
PO Number:						-											
Turn Around Tin	ne (TA	\T)	Matrix	/ Sampl	e Type (Select ONE)			-	4- 1				· · · · · · · · · · · · · · · · · · ·				
☐ 2 hours*		1997	All same	oles on fo	orm should be of SAME	Asbestos in Air				Tests / Analytes (Select ALL that A Asbestos in Bulk							
☐ Same day* †		Hic	шіх цуре	. Use ac	dditional forms as needed.		(NIOSH 74		ПP			<u> </u>	☑ Lead	Metals-Tota	<u>U</u>		
1 business day		⊠ A	ir		Solid	☐ TEM	(AHERA)		□₽	LM (Point	Count)	9.11	RCRA	/letals			
2 business days*† Aqueous				☐ Waste	☐ TEM	(EPA Leve	l II)	□₽	LM (Quali	tative or	ily)		TCLP	e e e e e e e e e e e e e e e e e e e			
☑ 3 business days † ☐ Bulk ☐ 5 business days † ☐ Hi-Vol Filter (PI				Wastewater	Mis	cellaneou	s Tests	N 🗖	YELAP			TCLP /	Lead	- 1			
	available for all tests) Water, Drinking		Dust (NIOS		□ C.	AELAP (F	oint Co	int)	☐ TCLP / RCRA Metals				
	job received past 3PM			er (ISF)	Compliance		Dust (NIC		TEM (Chatfield)				TCLP / Full (w/ organics) 10 day				
† will begin its TAT the next business day				Wipe, Composite	Silica - FTIR (NIOS							Microbiology					
Schedule rush organ			udge	(Micro-Vac Dust	Silica - XRD (NIOSH 7500) Other			FOR ASBESTOS AIR: TYPE OF RESPIRATOR				BACT (MPN & P/A) Mold Direct Exam				
etals & weekend advance	tests in	['] □ _s	ii		Ĭ_		Other	<u>e da l'est de la colo</u> lo. La colonne de la colonne d	1	9: <u></u>	PIRATC	JK	Mola Di	ect Exam			
C		Date	T	ime 🔻	Sample Iden			Wiped		47 L	Ti	me ²	Flov	Rate ³	Total ⁴		
Sample #	1000	ampled*	3 5 3	ıpled*⁺	(Employee, SSN, Bldg	g, Materia	I, Type ¹)	Area (ft²)			Start	Stop	Start	Stop	Air		
103E-PbW	0	2 - 2 5-10	16	00	End Fl Star	Floor	The	1SF									
-02					1st Fl Jan C.	loset F	low Tike	1SF									
-03					Ist FI NEnt												
-04	1				1	ch-l		1 SF									
- 05					2ndFl Jan C	loset-	Floor	/SF									
-06				- 14	Bsmt-Floo	-Conc.	e te	15F									
-07		L	•		Blank									-1			
- Elika																	
																	
<u> </u>									7	1							
¹ Τур	e: A=Aı	rea B=Blan	k P=Pers	onal E=E	ccursion ² Beginning/End of S	Sample Perio	od ³ Pump C	alibration in Li	iters/Mi	inute ⁴ Volu	ıme in Li	ters [time in	min × flow ir	L/min]			
					nt in adequate quantity for duplic lead to a disclaimer on the repo										*		
Sar	npled	l by ⊸			Relinquished					- · · 	· · · · · · · · · · · · · · · · · · · ·		Sa	nple Dispo	I.		
Jaff	<u>:</u> <u>S</u>	~, / \	-	_ _N	AME Joff	2m. 76							Return Dispos	to Sender (s al by lab	Shipping fees)		
TURE (b)	(6)			_ s	IGNATURE (b) (6)							٠	(\$50 fee for excessive weight)				
ATE / TIME		6-11	1	 D	ATE / TIME Z-ZC	-16	1800						☐ FX	oping Meth □ ∪PS □			
] Sample return r	eaues	sted [] A	mbient	temp [lce C		₹□S□X			hysical co			☐ HD WB:	☐ DB			



Schneider Laboratories Global, Inc

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CustomerOCCU-TEC, INC. (3505)Address4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 160222

 Matrix
 Wipe

 Received
 02/29/16

 Analyzed
 02/29/16

 Reported
 03/01/16

Project Goodfellow 103E
Location St Louis, MO
Number 916029

Number	910029					
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
160222-001	103-PbV-01	2nd FL W Ceiling Tile	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
160222-002	103-PbV-02	1st FL Jan Closet Water	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
160222-003	103-PbV-03	1st FL Ceiling Tile	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160222-004	103-PbV-04	1st FL Ceiling Tile	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
160222-005	103-PbV-05	2nd FL Stair Tread	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160222-006	103-PbV-06	Bsmt Floor Concrete	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	181 µg/wipe	1680 µg/ft2	92.9 μg/ft2
160222-007	103-PbV-07	Bsmt Stair To Tunnel	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160222-008	103-PbV-08	Bsmt In Tunnel	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	118 µg/wipe	1090 μg/ft2	92.9 μg/ft2
160222-009	103-PbV-09	Blank	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
160222-010	103-PbV-10	Blank	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 μg/wipe

Minimum Total Reporting Limit: 10.0 μ g/wipe. EPA Clearance Std: 40 μ g/ft² for floors, 250 μ g/ft² for interior window sills, and 400 μ g/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Schneider Laboratories Global, Inc

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Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 160222

 Matrix
 Wipe

 Received
 02/29/16

 Analyzed
 02/29/16

 Reported
 03/01/16

Project Goodfellow 103E
Location St Louis, MO
Number 916029

Sample ID Cust. Sample ID Location Sample Date

Parameter Method Area Total Conc. RL*

Analyst IH

160222-03/01/16 10:33 AM

(b) (6)

Reviewed By **Marti Baird**Analyst



SCHNEIDER LABORATORIES GLOBAL, INC.

V;\160\160222

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com

Submitting Co.	CU-TEC	Inc.			L	Lab WO#				Phone 816-230-5580						
	51 N. Mulberry Drive, Suite 275				Acct#	3505	13 11 1	Fax / Email	816-994	3470 / ja	yhurst@occ	utec.com				
(ansas City, MO 64		·			Ċ	*State of ollection	Missouri		**Cert. Required		Yes	⊠ No				
	- 102E						I Instruction	s [include re	quests fo	r special r	eporting or	lata packa	ges]			
roject Location: St					*************************************									-		
roject Number: 91													÷,			
O Number:												e de la companya de l		<u>.</u> .		
Turn Around Time	(TAT)	Ma	trix / Sam	ple Ty	pe (Select ONE)			Test	s / Analytes	(Select A	LL that Ap	ply)				
2 hours*		All s	amples on	form s	should be of SAME		Asbestos in	Air	Asbes	tos in Bu	lk .	M	etals-Total			
Same day* †		matrix 1	ype. Use	additio	onal forms as needed.	☐ PCM	I (NIOSH 740	0) [PLM		(X)	⊠ Lead				
1 business day* †		A ir		,] Solid	☐ TEM	(AHERA)	E	PLM (Poin	t Count)		RCRA Me	tals			
t business days* †	. [Aque	ous] Waste	☐ TEM	(EPA Level	<u>()</u>] PLM (Qual	itative only	n)	<u> </u>	TCLP			
3 business days*	, [Bulk			Wastewater	M	scellaneous	Tests	NYELAP			TCLP / Le	ad			
] 5 business days* †	. [] Hi-Vo	i Filter (PN	10) 🗀] Water,Drinking	☐ Tota	l Dust (NIOS	H 0500)	CAELAP (Point Cou	nt)	TCLP / R	CRA Metals	3		
Not available for all tes	1	Hi-Vo	l Filter (TS	P) 🖵	Compliance	☐ Res	p. Dust (NIO	SH 0600)	TEM (Char	tfield)		TCLP / F	ıll (w/ orgar	11CS) 10 dey		
A job received past 3F	-w [⊒ oii		∕ 🖫	Wipe	☐ Silic	a - FTIR (NIC	SH 7602)	<u> </u>			M	croblology			
will begin its TAT the next business day	[☐ Paint		Ţ	Wipe, Composite	☐ Silic	a - XRD (NIO	SH 7500)	FOR ASI	BESTOS	AIR:	☐ BACT (M	PN & P/A)			
Schedule rush organics		☐ Sludg	te `		Micro-Vac Dust		Other		TYPE OF RE	SPIRATO	R	☐ Mold Dire	ct Exam			
netals & weekend te advance.	sts in	Soil	د دد د يو					<u> </u>	USED:					<u> </u>		
- A	Da	J. 1965 A. 1962	Time		Sample Ide	ntification	ì	Wiped	pH/		ne ²		Rate ³	Total ⁴		
Sample #	Samp	led**	<u>Sampled</u>	(I	Employee, SSN, Bld	g, Mater	ial, Type¹)	Area (ft²)	Temp *	Start	Stop	Start	Stop	Air		
53E-PBV-01	2-25	-16	1600	2.	nd File. Co.	ling Till	,	100cm2		·				ļ		
-02				1	adfilw. Co.	loset	water heater	100 cm								
-03				A 1	st F1 Celling			100cm2								
-04					stFl (en		Tle !	100 em								
-05					nd Fl Sta			100cm								
-06	No. of the			1	Bomt - Flour	Conc	rete	100em								
-07				1	Ssmt - Star	to f	unne!	100cm		(,	50,00	ple 15	OK			
-08		γ			Bomb to	-tun	nel -	10000	10	D	9	\$				
-09					Blan	K			_		Υ,			1		
									-							
¹Typ	e: A=Area	B=Blank	P=Personal	E=Exc	cursion ² Beginning/End of in adequate quantity for de	of Sample F	Period 3Pump	Calibration in L	iters/Minute 4	Volume in	Liters [time aform a san	in min × flow	in L/mln] nalysis			
	due to a l	ack of sar	npie quantity	, will lea	ad to a disclaimer on the re	eport. Ali pr	oblem jobs with	out customer res	sponse held ove	er 30 days	will be voide	a ana aisposeu	Οł. 			
Sai	mpled b	y		NI A	Relinquish		=	2	25	7	6	☐ Retu ☐ Disp	ample Dis rn to Sende osal by lab	er (Shipping		
			11	.								<u> </u>	e for excessive			
DATE / TIME					GNATURE				(b) (6)			SI D FX D HD	nipping Me UPS DB	1		
☐ Sample return	requeste	ed 🔲 A	mbient te	mp [lce Cl_		ROSD	Red Red				WB:	24	2		
* T	W- 20 O	4 ***			hair of Custody documents	ation continu	and internative w	thin In Torme					•	\sim		



Attn:

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Project: Goodfellow Federal Center 103E

Location: St Louis, MO **Number:** 916029

Order #: 160220

Matrix Air

Received 02/29/16

Analyzed 02/29/16

Reported 03/01/16

PO Number:

-Number:	910029			PU	number:		
Sample ID	Cust. ID	Location	Date	Tim	ie Flo	ow Volu	me
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
160220-001	103E-PbA-01	1st FI S Mech	02/25/16	176	min 3.34	L/min 588	B L
Lead		NIOSH 7082M	!	<2.00 µg	2.00 µg	<3.41 µg/m3	<1.25 µg/m3
160220-002	103E-PbA-02	1st S Stairwell	02/25/16	179	min 3.63	L/min 650) L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.08 µg/m3	<1.15 µg/m3
160220-003	103E-PbA-03	2nd S Top Of Stairs	02/25/16	165	min 3.05	L/min 503	B L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.98 µg/m3	<1.37 µg/m3
160220-004	103E-PbA-04	2nd Bridge To 103	02/25/16	159	min 3.05	L/min 485	i L
Lead		NIOSH 7082M	 	<2.00 µg	2.00 µg	<4.13 µg/m3	<1.37 µg/m3
160220-005	103E-PbA-05	1st N By RR	02/25/16	165	min 3.05	L/min 503	B L
Lead		NIOSH 7082M	 	<2.00 µg	2.00 µg	<3.98 µg/m3	<1.37 µg/m3
160220-006	103E-PbA-06	1st Entrance	02/25/16	159	min 3.05	L/min 485	i L
Lead		NIOSH 7082M	1	<2.00 µg	2.00 µg	<4.13 µg/m3	<1.37 µg/m3
160220-007	103E-PbA-07	2nd N Stairwell	02/25/16	158	min 3.05	L/min 482	? L
Lead		NIOSH 7082M	 	<2.00 µg	2.00 µg	<4.15 µg/m3	<1.37 µg/m3
160220-008	103E-PbA-08	Bsmt Middle	02/25/16	167	min 3.05	L/min 509	L
Lead		NIOSH 7082M	1 1 1	<2.00 µg	2.00 µg	<3.93 µg/m3	<1.37 µg/m3
160220-009	103E-PbA-09	Bsmt Middle	02/25/16	166	min 3.05	L/min 506	6 L
Lead		NIOSH 7082M	!	<2.00 µg	2.00 µg	<3.95 µg/m3	<1.37 µg/m3
160220-010	103E-PbA-10	Bsmt W Tunnel 95	02/25/16	168	min 3.05	L/min 512	? L
Lead		NIOSH 7082M	1	<2.00 µg	2.00 µg	<3.91 µg/m3	<1.37 µg/m3
160220-011	103E-PbA-11	Bsmt W Tunnel	02/25/16	166	min 3.05	L/min 506	6 L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.95 μg/m3	<1.37 µg/m3
160220-012	103E-PbA-12	Blank	02/25/16				
Lead		NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: IH

160220-03/01/16 10:44 AM

(b) (6)

Reviewed By: **Marti Baird**Analyst

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter PEL

Lead $0.0500 \text{ mg/m}^3 [50.0 \text{ } \mu\text{g/m}^3]$

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.

SLG

SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com



V:\160\160220

Submitting Co. OCCU-TEC, Inc.					Lab W	0#			Ph	one	816-23	0-5580				1	
4151 N. Mulberry Di	rive, Su	ite 275				Acct	#	3505	· · · · · · · · · · · · · · · · · · ·		ax / nail	816-99	4-3470 / ja	yhurst@oc	cutec.com	·	-
Kansas City, MO 64	1116					**State Collect		Missouri		1.00	ert. uired	Ĺ	Yes	X No			
Project Name: Go	oodfel	low Fe	deral C	enter	- 103 E	1 4878.9		Spec	ial Instructi	ons [inclu	de re	quests f	or special i	reporting o	r data pack	ages]	27.8
Project Location: St	. Louis	s, MO			:				· · · · · · · · · · · · · · · · · · ·						4		7
Project Number: 91	6029		172	٠								.* :	: ,		·		
PO Number:						: 7			-				-				
Turn Around Tin	ne	М	atrix <i>i</i> Saı	nple T	ype (Select ONE)				Te	ests / Ana	vtes	(Select A	ALL that Ap	wly)			1
2 hours*	· į	All .	samples o	n form	should be of SAME	Ast	es	os Air / Fii	er Counts			Bulk / A		41.000	als-Total C	onc.	
☐ Same day*		1110011	TAbe: Os	auunk	onal forms as neede	". DP	CM	(NIOSH 74	00)	PLM	(EPA	600/R-93	3/116)	X Lead		V - 1	
1 business day*	\triangleleft	X] Solid	□ 7	EM	(AHERA)		☐ PLM	(EPA	Point Co	unt)	RCRA M	letals		
2 business day*		Aque	ous] Waste	Пπ	EM.	(EPA Leve	II)	☐ PLM	(Qual	itative on	ly)	□		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
☑ 3 business-days*)	Bulk		_	Wastewater	П_				☐ NYEL	AP 1	98.1/.4/.6	}	<u> </u>			_
5 business days*	1				Water,Drinking		-	cellaneou	:	CAEL	AP (E	EPA Inter	im)	M	etals-Extra	ct	_
Full TCLP (10d) Weekend*	- 1		ol Filter (T		Compliance	. (=		Dust (NIOS	•	TEM	(Chat	field)	1	TCLP/L	_ead	, ,	
* not available for all te	. [☐ Oil ☐ Paint		×		- 1=		. Dust (NIC		<u> </u>				TCLP / F			
Schedule rush organics		⊒ Paint □ Siudo		i ×	- 10 14 5	.		- FTIR (NIC - XRD (NIC	OSH 7602)			SESTOS	F	TCLP / F	ull (w/ orga	nics)	_
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advanos.	Da		Time	- T	Sample Id		_		Wiped	pH /	- r-	Ti	me²	- Flow	Rate ³	Total ⁴	<u>.</u>
Sample#	Samp	led**	Sample	1 77 (I	Employee, SSN, B				Area (ft²)	Temp	*	Start	Stop	Start	Stop	Air	
103F-PBA-01	2-25	-16	8 30	1	stFl - S	Mecl	1				. !	830	1126	3.63	3.05	587.8	14
-02	14 24 (15) 16 (16)]	st S S	farm	e	11			ç	33/	1130	3.63	3.63	649.	77
-03				2	end'STO	pof	Si	airs			9	848	1133	3.05	3.05	598.	75
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-12			Nowe Live		Blank	ر د			-	_				1			
¹ Type: A=area B=bl			E=excur	sion	² Beginning/End of	Sample P	eric	od ³ Pump	Calibration	in Liters	Minu	te ⁴ Vo	lume in Lite	ers [time in	min * flow	in L/min]]
Samp	pled by	-	,		Relinquish	ed to lai	b b	у . :		7	25	7-	45	Sa If sa	mple Disp mples over red. efer to Fee Sche	OSAİ welght dule)	
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GNATURE (b) (6	6)			SIG	MATURE (b) (6)					(b) (6)					ol by lab (\$50 pping Met		-
DATE/TIME 2	-25	-16		DAT	елтіме <u>2</u>	-16.	-,	6		(U) (U)				□ FX	□ UPS [□ DB		
☐ Sample return red * Temperature taken with fi					in-of-Custody documents	ation continu		R S S Sinternally with	X ☐ Re	поволител	s pau	. z.		WBS	1/8		_]

1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

March 2, 2016

Attention:

Jay Hurst

OCCU-TEC, Inc.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2296OCCA.4

Goodfellow - 103E Project

OCC#916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 29, 2016. These samples represent the TEM samples for the Goodfellow - 103E Project - OCC#916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eleven (11) samples are summarized in Tables I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S. TEM Laboratory Director



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow - 103E Project - OCC#916029

McCall and Spero Project No: MSE-2296OCCA.4

MSE Lab	Client	# of Asb.	Asb.	Sample	Calculated Analytical Sensitivity	Conc.	Conc.
ID	ID	Struc.	Type	Vol. (1)	(s/cc)	(s/cc)	(s/mm²)
I01	103E-AA-01	NSD	NA	1441	0.0041	BDL (0.0041)*	BDL (15.2)*
I02	103E-AA-02	NSD	NA	1344.20	0.0044	BDL (0.0044)*	BDL (15.2)*
I03	103E-AA-03	NSD	NA	1352.40	0.0043	BDL (0.0043)*	BDL (15.2)*
I04	103E-AA-04	NSD	NA	1296.10	0.0045	BDL (0.0045)*	BDL (15.2)*
I05	103E-AA-05	NSD	NA	1320.20	0.0044	BDL (0.0044)*	BDL (15.2)*
106	103E-AA-06	NSD	NA	1280	0.0046	BDL (0.0046)*	BDL (15.2)*
I07	103E-AA-07	NSD	NA	1296.10	0.0045	BDL (0.0045)*	BDL (15.2)*
108	103E-AA-08	NSD	NA	1344.40	0.0044	BDL (0.0044)*	BDL (15.2)*
I09	103E-AA-09	NSD	NA	1328.30	0.0044	BDL (0.0044)*	BDL (15.2)*
I10	103E-AA-10	NSD	NA	1336.30	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director:	(b) (6)	ì	Date: <u>312116</u>	

McCall and Spero Environmental, Inc.

^{*} Single fiber detection limits are used when no structures are detected.

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow - 103E Project - OCC#916029

McCall and Spero Project No: MSE-2296OCCA.4

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I11	103E-AA-11	NSD	NA	1336.30	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

NSD=No Structures Detected M=Matrix C=Cluster B=Bundle F=Fiber BDL = Below Detectable Limit CH = Chrysotile A = AmositeNA = Not Applicable EDS-Energy Dispersive Spectrometry SAED=Selected Area Electron Diffraction

s/mm² - asbestos structures per square millimeter s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director:

^{*} Single fiber detection limits are used when no structures are detected.



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E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: O	CCU-TEC INC.	Telephone #:	816-231	1-5580 Fa	_{x #:} 816-994-	3470
Company	y Hurst		ject Numb		.9	
Relinquished by	1 00 (1)	_ Date:	2-26		Time: /80	20
	To: jayhurst@occutec.com; jsmith@					1
Project Name:	Goodfellow - 103 E					
1	ime: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour	2-3 Day	4-5 Day We	ekend Rush Aft	er Hour Rush
to lactor cont	<u> See Olor</u>	. 1				
MSE Project #:	MSE- 229 WOCCA A Comments	. Lita	cts			
Samples Receive			rlal	lu	Time: 10%	OSAM
	analyzed by: TEM AHERA / EPA OCFR Pa	_	11			
Samples Prepar		Method	Burdett	& Rood		
Samples Analyz		Date:	311			
Client ID	Sample Location / Type	Start	- Stop	Total Time	x Liters/Minute	= Volume
Number	(I)inside(O)outside(B)blank (P)personal(A)ambient	Time	Time			
103E-AA-01	1st S. Mech	828	1127	179	8,05	1441
-02	1st 5 Stairwell	8:38	1130	172	7,82	1344,2
-03	2nd S Tap of Stair	8:46	1134	168	8,05	1352.4
1-04	2nd S Bridge to 103	854	1135	161	8,05	1296.1
-05	IST-N BURR	9:09	1153	164	8,05	1320.2
-06	1st - by Entrance	9:15	1154	159	8.05	1280
-07	2nd Fl - N Stairwell	921	1202	161	8.05	1296.1
-08	Bont - Middle	815	1102	167	8,05	1344,4
-09	Bsmt - Middle	819	1104	165	8.05	13283
-10	Bsmt- W Tunnel	822	1108	166_	8,05	1336.3
-//	Bsmt - W Tunnel	8:24	1110	166	8.05	1336.3
-12	Blank	<u> </u>				
		ļ				-
				<u></u>		

Results Transmitted/Date: _____ Fax/Phone By: _____

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDI	NG 103F		
	Asbestos TEM	I Air Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103F-AA-001	1st Floor Column F-09	<15.2	s/mm ²	70 s/mm ²
103F-AA-002	1st Floor Column B-08	<15.2	s/mm ²	70 s/mm ²
103F-AA-003	1st Floor Column C-12	<15.2	s/mm ²	70 s/mm ²
103F-AA-004	1st Floor Column F-04.5	<15.2	s/mm ²	70 s/mm ²
103F-AA-005	Basement East	<15.2	s/mm ²	70 s/mm ²
103F-AA-006	Basement Center	<15.2	s/mm ²	70 s/mm ²
103F-AA-007	Tunnel	<15.2	s/mm ²	70 s/mm ²
103F-AA-008	Basement West	<15.2	s/mm ²	70 s/mm ²
103F-AA-009	Blank		Not Analyzed	•
	Lead Air	Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103F-PbA-001	1st Floor Column F-09	<3.34	μg/m³	30 μg/m ³
103F-PbA-002	1st Floor Column B-08	<3.34	$\mu g/m^3$	30 μg/m ³
103F-PbA-003	1st Floor Column C-12	<3.34	$\mu g/m^3$	30 μg/m ³
103F-PbA-004	1st Floor Column F-04.5	<3.30	$\mu g/m^3$	30 μg/m ³
103F-PbA-005	Basement East	<3.34	μg/m³	30 μg/m ³
103F-PbA-006	Basement Center	<3.34	μg/m³	30 μg/m ³
103F-PbA-007	Tunnel	<3.34	μg/m³	30 μg/m ³
103F-PbA-008	Basement West	<3.34	μg/m³	30 μg/m ³
103F-PbA-009	Blank	<2.00	μg	30 μg/m ³

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDING 103F									
	Lead Surface Dust Wipe Samples									
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level						
103F-PbW-001	Basement Fiberglass Plastic Jacket Pipe Elbow	759	μg/ft²	$200 \mu g/ft^2$						
103F-PbW-002	Basement Support Bar	220	μg/ft²	200 μg/ft ²						
103F-PbW-003	Basement Top of Non-Insulated Pipe	323	μg/ft²	200 μg/ft ²						
103F-PbW-004	1st Floor Column E-08 Top of Shelf	<10	μg/ft²	200 μg/ft ²						
103F-PbW-005	1st Floor Column D-08 Condiment Wall Top	<10	μg/ft²	$200 \mu g/ft^2$						
103F-PbW-006	1st floor Column B-08 Window Sill	<10	μg/ft²	$200 \mu g/ft^2$						
103F-PbW-007	Blank	<10	μg	200 μg/ft ²						
	Lead Surface Dust Micro	-vac Samples								
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level						
103F-PbV-001	Basement Concrete Floor	5110	μg/ft²	200 μg/ft ²						
103F-PbV-002	Tunnel Floor Concrete Floor	1120	μg/ft²	200 μg/ft ²						
103F-PbV-003	Basement Top of Pipe Insulation	920	μg/ft²	200 μg/ft ²						
103F-PbV-004	1st Floor Column E-08 Top of Brick Shelf	<92.9	μg/ft²	200 μg/ft ²						
103F-PbV-005	1st Floor Column B-10 Brick Ledge	<92.9	μg/ft²	200 μg/ft ²						
103F-PbV-006	1st Floor Column E-11 Carpet	<92.9	μg/ft²	200 μg/ft ²						
103F-PbV-007	Blank	<10	μg	200 μg/ft ²						

BASEMENT PLANS NOT PROVIDED TO OCCU-TEC

SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

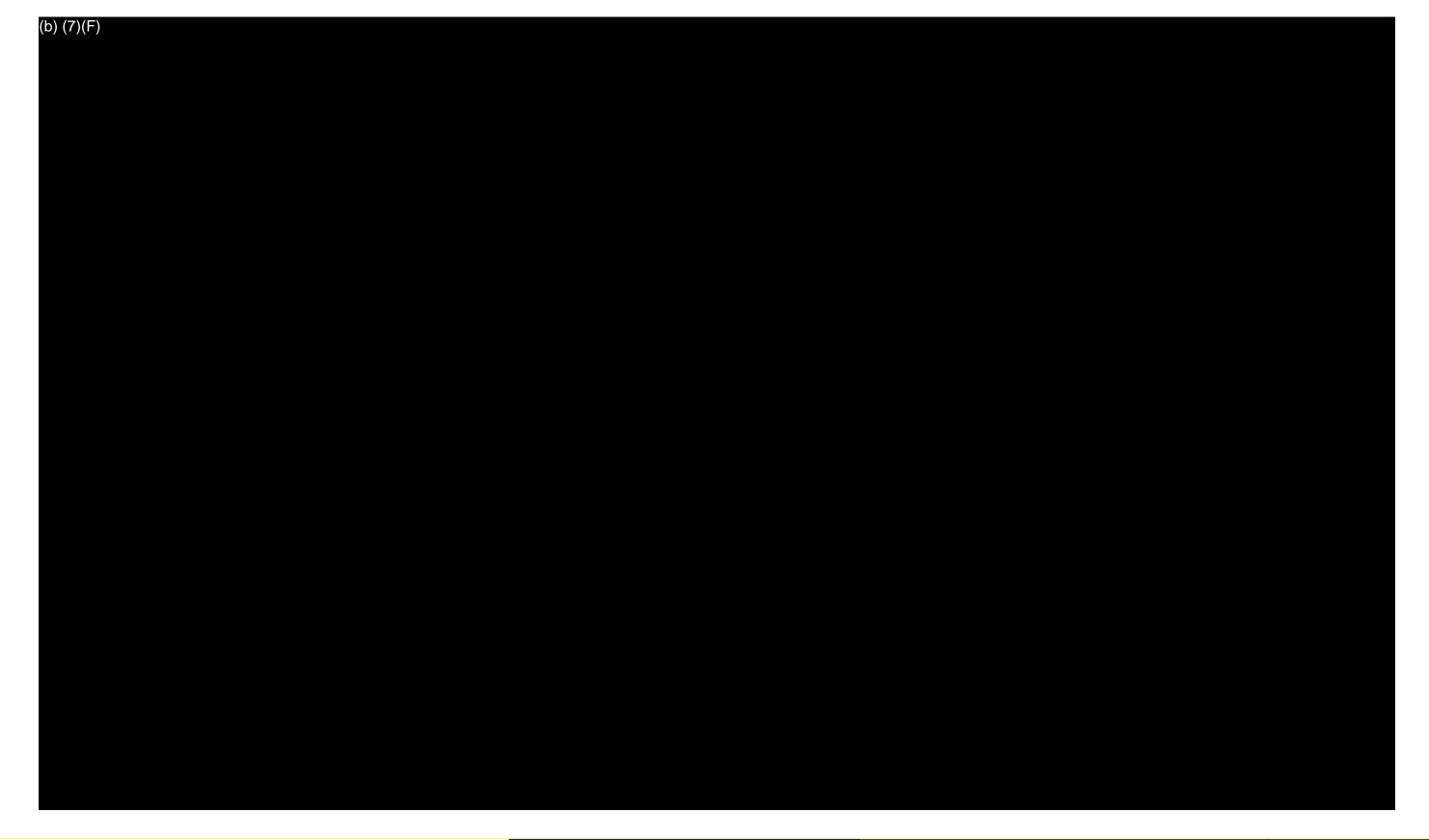
PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



		DRAWN by: JWH			
	GOODFELLOW MO0616 (103F) - Basement	SUB. DATE:	03/04/16		
	CLIENT NAME:				
C	GENERAL SERVICES ADMINISTRATION				
3		SCALE:	NTS		
	PROJECT NAME:	SCALL.	INTO		

916029

GOODFELLOW GS-P-16-16-GZ7025



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: J\	NΗ
GOODFELLOW MO0616 (103F) - 1st FLOOR	SUB. DATE: 03/04/16	
GENERAL SERVICES ADMINISTRATION		
PROJECT NAME:	SCALE: N	TS
GOODFELLOW GS-P-16-16-GZ7025	916029	



Attn:

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 279

4151 N. Mulberry D., Ste 275 Kansas City, MO 64116

randa ony, mo o ma

Project: Goodfellow 103F Location: St Louis, MO

Number: 916029

Order #: 159447

Matrix Air

 Received
 02/22/16

 Analyzed
 02/23/16

 Reported
 02/24/16

PO Number:

Humber.	010020	1 o Humber.									
Sample ID	Cust. ID	Location	Date	Time	Flo	w Volu	me				
Parameter		Method		Total	RL*	Conc.	8 Hr TWA				
159447-001	103F-PbA-001	Column F09 1st Floor	02/16/16	165 m	nin 3.63 l	L/min 599	L				
Lead		NIOSH 7082M	 	<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3				
159447-002	103F-PbA-002	Column B08 1st Floor	02/16/16	165 m	nin 3.63 l	L/min 599	L				
Lead		NIOSH 7082M	 	<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3				
159447-003	103F-PbA-003	Column C12 1st Floor	02/16/16	165 m	nin 3.63 l	L/min 599	L				
Lead		NIOSH 7082M	 	<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3				
159447-004	103F-PbA-004	Column F4.5 1st Floor	02/16/16	167 m	nin 3.63 l	L/min 606	6 L				
Lead		NIOSH 7082M	1	<2.00 µg	2.00 µg	<3.30 µg/m3	<1.15 µg/m3				
159447-005	103F-PbA-005	Basement	02/16/16	165 m	nin 3.63 l	L/min 599	L				
Lead		NIOSH 7082M	1	<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3				
159447-006	103F-PbA-006	Basement	02/16/16	165 m	nin 3.63 l	L/min 599	L				
Lead		NIOSH 7082M	1 1 1	<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3				
159447-007	103F-PbA-007	Tunnel	02/16/16	165 m	nin 3.63 l	L/min 599	L				
Lead		NIOSH 7082M	1	<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3				
159447-008	103F-PbA-008	Basement	02/16/16	165 m	nin 3.63 l	L/min 599	L				
Lead		NIOSH 7082M	1	<2.00 µg	2.00 µg	<3.34 μg/m3	<1.15 µg/m3				
159447-009	103F-PbA-009	Blank	02/16/16			·					
Lead		NIOSH 7082M	1 1 1 1	<2.00 μg	2.00 µg						
159447-010	103F-PbA-010		02/16/16								
Lead		NIOSH 7082M	1	<2.00 µg	2.00 µg						
			*	- "							

Analyst: IH

159447-02/24/16 09:13 AM

(b) (6)

Reviewed By: **Abisola Kasali**Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter PEL

Lead $0.0500 \text{ mg/m}^3 [50.0 \text{ } \mu\text{g/m}^3]$

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

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Submitting Co. Lab WO# Phone OCCU-TEC Inc 816-230-5580 Foy / 4151 N. Mulberry Drive, Suite 275 Acct # 3505 Email 816-994-3470 / jayhurst@occutec.com **State of **Cert. Kansas City, MO 64116 Collection Missouri ☐ Yes X No Required 103 Project Name: Goodfellow Special Instructions [include requests for special reporting or data packages] Project Location: St. Louis, MO Project Number: 916029 PO Number: Turn Around Time (TAT) Matrix / Sample Type (Select ONE) Tests / Analytes (Select ALL that Apply) 2 hours All samples on form should be of SAME matrix type. Use additional forms as needed. Asbestos in Air Asbestos in Bulk Metals-Total ☐ Same day* † PCM (NIOSH 7400) PLM X Lead 1 business day* † ☐ Solid TEM (AHERA) PLM (Point Count) RCRA Metals 2 business days* † ☐ Aqueous ☐ Waste ☐ TEM (EPA Level II) PLM (Qualitative only) TCLP 3 business days* + ☐ Bulk ☐ Wastewater Miscellaneous Tests NYELAP TCLP / Lead 5 business days* † Hi-Vol Filter (PM10) Water, Drinking Total Dust (NIOSH 0500) CAELAP (Point Count) TCLP / RCRA Metals * Not available for all tests ☐ Hi-Vol Fitter (TSP) ☐ Compliance Resp. Dust (NIOSH 0600) TCLP / Full (w/ organics) 10 day ☐ TEM (Chatfield) □ oii A job received past 3PM ▼ Wipe Silica - FTIR (NIOSH 7602) П † will begin its TAT the next business day Microbiology ☐ Paint ☐ Wipe, Composite Silica - XRD (NIOSH 7500) FOR ASBESTOS AIR: BACT (MPN & P/A) Schedule rush organics, multi-Micro-Vac Dust Sludge × TYPE OF RESPIRATOR Mold Direct Exam Other tals & weekend tests in □ _{Seil} advance. USED Date Time Sample Identification Flow Rate³ Wiped Total4 Sample # Sampled** Sampled** (Employee, SSN, Bldg, Material, Type1) Area (ft²) Temp * Start Stop Start Stop 2-14-16 103F-PAA-001 1320 14.65 3.4**3** 3,63 598.95 03F-PhA-607 1328 598,95 <u> 103F-PbA-0</u>03 1337 1622 598,95 163F-PbA-004 1340 1427 598.95 103F-PBA-005 430 598.95 103F-P6A-006 1434 1719 3,63 3.43 518.95 103F-PbA-007 1440 1725 3,2,3 3.43 598.95 Basement 103F-PhA-008 1447 17 37 3,63 598,95 BLANK 2-16-14 163F-PBA-009 Type: A=Area B=Blank P=Personal E=Excursion 2Beginning/End of Sample Period 3Pump Calibration in Liters/Minute 4Volume in Liters [time in min x flow in L/min] All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of Sampled by Relinquished to lab by Sample Disposal Return to Sender (shipping fees)
Disposal by lab Acrol NAME (b) (6) (\$50 fee for excessive b) (6) SIGNATURE Shipping Methods DATE / TIME 2-14-14 19:00 □ fX DATE / TIME 2-19 UPS I DB ☐ Sample return requested ☐ Ambient temp ☐ Ice WB Temperature taken with IR Gun A. Chain-of-Custody documentation continued internally within lab. Ter

Work Order Maintenance Worksheet
Property of: Schneider Laboratories, Inc. OA Dept - DO NOT DESTROY ORIGINALS

Client /Acct#OCCY	WO / Invoice # PM Init.
WOM Inititated By SLI:	SLI Staff/Date/Time: 2722-16
No COC submitted No TAT giv	
Sample(s) not rec'd LExtra samp	
Wrong media used TEM type t	
Other:	# 103 F-PbA - 010
1 1st Contact Attempt SUN VH	MAN TO Shally (7) talm
O 1 A O 1 Contac	VUU 2/28/16 / 7:47/5/11 Staff: Ust Name
Notes: 1	Will add & run wora 0
sumple Adv	to ocul back my description orner
2nd Contact Attempt:	SLI Staff: 10
Notes:	Bete Time
Client Returned Call	t Name Rete Tree
Client's Instructions:	t Name Dete Time
	St. Staff
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CHECK ONE >>>> described b	elow see attached fax/e-mail SLI Staff.
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Client Changing COC Information Glient Making Special Request Client Requesting TAT change New Turn-Around Time is: [circle or Notes An AMENDED REPORT must be last	elow see attached fax/e-mail SLI Staff. Other Original Due Date Original Dee-Time Del 2hr 6-8hr 24hr 48hr 3day 5day
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Revised narmin



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

CustomerOCCU-TEC, INC. (3505)Address4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159407

Matrix Wipe 102/23/16

Project Goodfellow 103F Location St Louis, MO Number 916029
 Received
 02/22/16

 Analyzed
 02/23/16

 Reported
 02/24/16

-Number	916029					
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159407-001	103F-PbV-001	Basement Floor	02/16/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	550 µg/wipe	5110 μg/ft2	186 μg/ft2
159407-002	103F-PbV-002	Tunnel Floor	02/16/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	120 µg/wipe	1120 µg/ft2	92.9 μg/ft2
159407-003	103F-PbV-003	Basement Insulation	02/16/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	99.0 µg/wipe	920 µg/ft2	92.9 μg/ft2
159407-004	103F-PbV-004	1st FL E8 Top Of Brick	02/16/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159407-005	103F-PbV-005	1st FL B10 Brick Ledge	02/16/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159407-006	103F-PbV-006	1st FL E11 Carpet	02/16/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159407-007	103F-PbV-007	Blank	02/16/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159407-008	103F-PbW-001	F6 Plastic Elbow Bsmt	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	759 µg/wipe	759 µg/ft2	20.0 μg/ft2
159407-009	103F-PbW-002	Basement Support Bar	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	220 µg/wipe	220 μg/ft2	10.0 μg/ft2
159407-010	103F-PbW-003	Basement Pipe	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	323 µg/wipe	323 µg/ft2	10.0 μg/ft2
159407-011	103F-PbW-004	1st FL E8 Top Of Shelf	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159407-012	103F-PbW-005	1st FL D8 Condiment Wall	02/16/16			

Minimum Total Reporting Limit: 10.0 μ g/wipe. EPA Clearance Std: 40 μ g/ft² for floors, 250 μ g/ft² for interior window sills, and 400 μ g/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159407

 Matrix
 Wipe

 Received
 02/22/16

 Analyzed
 02/22/16

 Reported
 02/24/16

Project Goodfellow 103F Location St Louis, MO Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159407-013	103F-PbW-006	1st FL B8 Window Sill	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159407-014	103F-PbW-007	Blank	02/16/16			
Lead		EPA 7000B / 3050B		<10.0 µg/wipe		10.0 μg/wipe
Lead		EPA 7000B / 3050B		<10.0 µg/wipe		1

Analyst IH 159407-02/24/16 09:03 AM

(b) (6)

Reviewed By Abisola Kasali

Metals Supervisor



SCHNEIDER LABORATORIES GLOBAL, INC.

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•					
	٦	J•\1	59\1	159407	

				<u> </u>									
Submitting Co.								Phone	816-230-558	0			•
4151 N. Mulberry Drive, Suite 275						3505		Fax / Email	816-994-3470 / jayhurst@occutec.com				
Kansas City, MO 64116						Missouri	100	**Cert. Required		8	X No		, j.,
Project Name: Goodfellow ~ 103 F							al Instruction	s [include re	quests for spe	cial rep	orting or	data packa	ges]
Project Location: S	,			Star Salar	· ,'			,					
Project Number: 9												,	
PO Number:						,							
Turn Around Time	e (TAT)		latrix / Samnie	Type (Select ONE)		<u> </u>	Toe	te / Analytoe	(Select ALL th	at Anni	w)		
2 hours*		All	samples on fo	rm should be of SAME		Asbestos in		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	tos in Bulk	ut 14551	Metals-Total		
☐ Same day* †		<u>matri</u>	<u>k type.</u> Use ad	ditional forms as needed.	PCM	(NIOSH 74	00)	PLM		×	Lead		
☐ 1 business day*	t .	⊠ Air		☐ Solid	☐ TEM	(AHERA)	[PLM (Poir	t Count)		RCRA Me	tals	
2 business days*	†	☐ Aqu	eous	☐ Waste	TEM	(EPA Level	<u>)</u>	PLM (Qua	litative only)		TCLP		
X 3 business days⁴ ■	•	☐ Bulk		Wastewater		scellaneous		NYELAP			TCLP / Lead		
5 business days*	•	_	,) Water, Drinking		Dust (NIOS	´ '	CAELAP (Point Count)			TCLP / RCRA Metals		
* Not available for all t			ol Filter (TSP)			Dust (NIO	· 2	TEM (Cha	tfield)		TCLP / Full (w/ organics) 10 day		
A job received past († will begin its TAT the next business day		□ Pair	•	₩ Wipe Wipe, Composite	l	a - FTIR (NIC	-	FOR ASBESTOS AIR:			Microbiology ☐ BACT (MPN & P/A)		
Schedule rush organi	cs. multi-	Siud		Wicro-Vac Dust		Other T		TYPE OF RESPIRATOR			Mold Direct Exam		
etals & weekend l		□ _{Soil}			- Outer			JSED			7		in .
	Đ	ate	Timé	Sample Ide	entification		Wiped	pH /	Time ²		Flow	Rate ³	Total⁴
Sample #	Sam	pled**	Sampled**	(Employee, SSN, BI	dg, Materi	al, Type¹)	Area (ft²)	Temp *	Start St	ор	Start	Stop	Air
163F-P3V-001	Z-K	्र		Bascarent f	- 085		100cm2						
1035-PbV-00Z				Tunnel Floo			1						
103F-P6V-003				Basement I.	rsulad	100							
103F-PbV-004				1st Floor E8	Top of	Brick							
103F-PbU - 008	•	1		18d Floor BID	Brick	ledge							
163F-PbV-004				18t floor Ell	Carr	net-	W.						,
163F-PbV-007	1	y		BLANK									
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								: .					
	soil and a	queous sa	mples must be se	xcursion ² Beginning/End on the adequate quantity for do	uplicate analys	sis to be perfor	med per EPA red	quirements. Fa	ilure to perform a	sample o	luplicate ana	alysis,	
			mple quantity, will	lead to a disclaimer on the re			ut customer resp	onse held over	30 days will be v	oided and		mple Dispo	nsal
Sampled by Relinquish			. /		0/	22	16	1	Return	to Sender (
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SIGNATURE (D) (O)				,,		J					pping Meth	_	
	2116			DATE / TIME 2-14	7	00	(p)	(6)			HD	UPS DB	J USM
Sample return				Chain-of-Custody documenta		RD SD	X X				WB:	123	

SLG

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Submitting Co.	OCCU-TE	IC Inc.			Lab WO#			Phone	816-230-	5580				
4151 N. Mulberry Drive, Suite 275					Acct#	3505	Fax / San Email 816-994-3470 /			3470 / j	jayhurst@occutec.com			
Kansas City, MO 64116					**State of Collection	**Cert.								
		llow *	- 103 F		2 9 S. 1982 23		al Instructio	ns [include r	equests for	special	reporting or	data packa	iges]	
Project Location:			100											
							`.							
Project Number:	910029													
PO Number:														
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1 business day	+	⊠ Air		☐ Solid	_	(AHERA)	,	PLM (Poir	nt Count)		RCRA Metals			
2 business days		☐ Aqu	eous	☐ Waste	_	l (EPA Level	R).	PLM (Qua	•)		TCLP	., .	
☐ 3 business days	s* †	☐ Bulk	ς .	Wastewater	Mi	scellaneous	Tests	NYELAP			TCLP / L	ead		
5 business days	s* †	.□ Hi-∨	ol Filter (PM10)	Water, Drinking Water, □ Mater Water Water	☐ Tota	l Dust (NIOS	H 0500)	CAELAP	(Point Coun	t)	TCLP / F	CRA Metals	6	
* Not available for all	tests	☐ Hi-V	ol Filter (TSP)	Compliance	Res	p. Dust (NIC	SH 0600)	TEM (Cha	atfield)		TCLP / F	ull (w/ orgar	nics) 10 day	
A job received past		Oil		⊠ Winge	Silic	a - FTIR (NIC	OSH 7602)	<u> </u>		<u> </u>	Microbiology			
next business day	16	Pair		Wipe, Composite		a - XRD (NIC	SH 7500)	FOR AS	BESTOS	AIR:	☐ BACT (MPN & P/A)		,	
Schedule rush organ		Sluc		Micro-Vac Dust		Other			SPIRATOR	8	Mold Direct Exam			
advance.	- Interest	Soil	SANCTONISCOPE - NAMES A			USED:			2	Flow Rate ³ Total ⁴				
Sample #	225-00-01-05	Date npled**	Time Sampled**	Sample Ide (Employee, SSN, Bk			Wiped Area (ft²)	pH / Temp *	Start	Stop	Start	Stop	Total⁴ Air	
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د ،TURE	,,				<u> </u>			b) (6)			Sh	ipping Met	_	
DATE / TIME /				DATE / TIME 279		100	<u></u>				HD			
■ Sample return * Temperature taken				☐ Ice CI Chain-of-Custody documenta		R S						1,45		

1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 25, 2016

Attention:

Jay Hurst

OCCU-TEC, Inc.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2226OCCA

Goodfellow - 103F Project

OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 22, 2016. These samples represent the TEM samples for the Goodfellow - 103F Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eight (8) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely, (b) (6)

Kevin R. Bean, B.A. TEM Senior Analyst



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow - 103F Project - OCC# 916029

McCall and Spero Project No: MSE-2226OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I01	103F-AA-001	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I02	103F-AA-002	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
103	103F-AA-003	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I04	103F-AA-004	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
105	103F-AA-005	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
106	103F-AA-006	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
107	103F-AA-007	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
108	103F-AA-008	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Gypsum

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

Date: 2/25/16 TEM Laboratory Director:

^{*} Single fiber detection limits are used when no structures are detected.



E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: C	OCCU-TEC INC.	Telephone #	: 816-23	1-5580	Fax #: 816-994	1-3470		
	y Hurst	Client Project Number: 916029						
Relinquished by		Date: Z-14-14 Time: 19:00						
Written Report	To: jayhurst@occutec.com; jsmith@	@occutec	.com	- •				
Project Name:	Goodfellow - 103 F							
Turn-Around T	ime: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour	2 3 Day	4-5 Day V	Veekend Rush A	fter Hour Rush		
Ta Gallache	i i i i i i i i i i i i i i i i i i i	_						
MSE Project #:		s:						
Samples Receive	ed by:	Date:	02/221	110	Time: (0)	ODAM		
	Analyzed by: TEM AHERA / PPA 40CFR Pa	-	///			001, 1		
Samples Prepar	red By: (b) (6)	Method	: Burdett	& Rood				
Samples Analyz	red By:	Date:	2/42	-ril				
		_			-			
Client ID	Sample Location / Type	Start	Stop	Total Tim	e x Liters/Minute	a – Valuma		
Number	(I)inside(O)outside(B)blank (P)personal(A)ambient	Time	Time					
103F-AA-061	Column FOG 15+ Floor	1320	1605	165	8.03	1324.95		
103F - AA-00Z	Column BO8 15+ Floor	1328	1613	165	8.03	1324.95		
103F-AA-003	Column C12 1st floor	1337	1673	145	8.03	1374.95		
103F-AA-604	Column F4.515 Floor	1340	1625	145	8.03	1324.95		
103F-AA-005	Basement	1430	1715	145	8.03	1324.95		
103FAA-006	basement	1434	1719	165	<u>8.03</u>	1324.95		
163F-AA-007	Tunnel	1440	1725	165	8.63	1324 95		
103F- AA-008	Basenont	1447	1732	165	8.03	1324.95		
103F-AA-009	BLANK					<u> </u>		
103F-AA-016								
_								
Results Transi	mitted/Date:	Fax	/Phone B	y:				

BUILDING 104, 104E, 104F

BUILDING 104 Asbestos TEM Air Samples								
104-AA-001	2nd Floor Column D-53	<17.7	s/mm ²	70 s/mm ²				
104-AA-002	2nd Floor Column C-50	<17.7	s/mm ²	70 s/mm ²				
104-AA-003	2nd Floor Column G-46	<17.7	s/mm ²	70 s/mm ²				
104-AA-004	2nd Floor Column C-41	<17.7	s/mm ²	70 s/mm ²				
104-AA-005	2nd Floor Column h-36	<17.7	s/mm ²	70 s/mm ²				
104-AA-006	2nd Floor Column F-34	<17.7	s/mm ²	70 s/mm ²				
104-AA-007	2nd Floor Column G-32	<17.7	s/mm ²	70 s/mm ²				
104-AA-008	2nd Floor Column G-25.5	<17.7	s/mm ²	70 s/mm ²				
104-AA-009	2nd Floor Column C-28	<17.7	s/mm ²	70 s/mm ²				
104-AA-010	2nd Floor Column D-19	<17.7	s/mm ²	70 s/mm ²				
104-AA-011	2nd Floor Column B-19	<17.7	s/mm ²	70 s/mm ²				
104-AA-012	2nd Floor Column G-16	<17.7	s/mm ²	70 s/mm ²				
104-AA-013	2nd Floor Column F-14	<17.7	s/mm ²	70 s/mm ²				
104-AA-014	2nd Floor Column H-8	<17.7	s/mm ²	70 s/mm ²				
104-AA-015	2nd Floor Column H-2	<17.7	s/mm²	70 s/mm ²				
104-AA-016	2nd Floor North Stair	<17.7	s/mm ²	70 s/mm ²				
104-AA-017	1st Floor Column H-4	<15.2	s/mm ²	70 s/mm ²				
104-AA-018	1st Floor Column B-5	<15.2	s/mm ²	70 s/mm ²				
104-AA-019	1st Floor Column D-9	<15.2	s/mm²	70 s/mm ²				
104-AA-020	1st Floor - Column F-9	<15.2	s/mm ²	70 s/mm ²				
104-AA-021	1st Floor Column E-11	<15.2	s/mm²	70 s/mm²				
104-AA-022	1st Floor Column J-13	<15.2	s/mm ²	70 s/mm ²				
104-AA-023	1st Floor Column J-21	<15.2	s/mm ²	70 s/mm²				
104-AA-024	1st Floor Column B-19	<15.2	s/mm²	70 s/mm ²				
104-AA-025	1st Floor Column E-23	<15.2	s/mm²	70 s/mm ²				
104-AA-026	1st Floor Column A-28	<15.2	s/mm²	70 s/mm ²				
104-AA-027	1st Floor Column G-30	<15.2	s/mm²	70 s/mm ²				
104-AA-028	1st Floor Column J-34	<15.2	s/mm²	70 s/mm ²				
104-AA-029	1st Floor Column A-38	<15.2	s/mm²	70 s/mm ²				
104-AA-030	1st Floor Column J-45	<15.2	s/mm²	70 s/mm ²				
104-AA-031	1st Floor Column E-49	<15.2	s/mm²	70 s/mm ²				
104-AA-032	1st Floor Column A-52	<15.2	s/mm²	70 s/mm ²				
104-AA-033	Basement West Tunnel	<15.2	s/mm²	70 s/mm ²				
104-AA-034	Basement Column G-25	<15.2	s/mm²	70 s/mm ²				
104-AA-035	Basement Column F-25	<15.2	s/mm²	70 s/mm ²				
104-AA-036	Basement Column E-27	<15.2	s/mm ²	70 s/mm ²				
104-AA-037	Basement Column C-27	<15.2	s/mm²	70 s/mm ²				
104-AA-038	Basement Column A-27	<15.2	s/mm²	70 s/mm ²				
104-AA-039	Northeast Penthouse Air Handler	<15.2	s/mm²	70 s/mm ²				
104-AA-040	Northwest Penthouse Boiler Room	<15.2	s/mm²	70 s/mm ²				
104-AA-041	Middle Penthouse Elevator Room	<15.2	s/mm²	70 s/mm ²				
104-AA-042	Southwest Penthouse Chiller Room	<15.2	s/mm²	70 s/mm ²				
104-AA-043	Penthouse SEC-D	<15.2	s/mm²	70 s/mm ²				
104-AA-044	Blank	1.5.5	Not Analyzed	, 0 0, 11111				

BUILDING 104									
Lead Air Samples									
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level					
104-AA-001	2nd Floor Column D-53	<2.11	μg/m ³	30 μg/m ³					
104-AA-002	2nd Floor Column C-50	<2.03	μg/m³	30 μg/m ³					
104-AA-003	2nd Floor Column G-46	<2.03	μg/m ³	30 μg/m ³					
104-AA-004	2nd Floor Column C-41	<2.07	μg/m ³	30 μg/m ³					
104-AA-005	2nd Floor Column h-36	<2.10	μg/m ³	30 μg/m ³					
104-AA-006	2nd Floor Column F-34	<2.13	μg/m ³	30 μg/m ³					
104-AA-007	2nd Floor Column G-32	<2.18	μg/m ³	30 μg/m ³					
104-AA-008	2nd Floor Column G-25.5	<2.18	μg/m ³	30 μg/m ³					
104-AA-009	2nd Floor Column C-28	<2.20	μg/m ³	30 μg/m ³					
104-AA-010	2nd Floor Column D-19	<2.21	μg/m ³	30 μg/m ³					
104-AA-011	2nd Floor Column B-19	<2.26	μg/m ³	30 μg/m ³					
104-AA-012	2nd Floor Column G-16	<2.27	μg/m ³	30 μg/m ³					
104-AA-013	2nd Floor Column F-14	<2.37	μg/m ³	30 μg/m ³					
104-AA-014	2nd Floor Column H-8	<2.44	μg/m ³	30 μg/m ³					
104-AA-015	2nd Floor Column H-2	<2.48	μg/m ³	30 μg/m ³					
104-AA-016	Second Floor North Stair	<2.48	μg/m ³	30 μg/m ³					
104-AA-017	1st Floor Column H-4	<3.27	μg/m ³	30 μg/m ³					
104-AA-018	1st Floor Column B-5	<3.27	μg/m ³	30 μg/m ³					
104-AA-019	1st Floor Column D-9	<3.29	μg/m ³	30 μg/m ³					
104-AA-020	1st Floor - Column F-9	<3.31	μg/m ³	30 μg/m ³					
104-AA-021	1st Floor Column E-11	<3.31	μg/m ³	30 μg/m ³					
104-AA-022	1st Floor Column J-13	<3.31	μg/m ³	30 μg/m ³					
104-AA-023	1st Floor Column J-21	<3.25	μg/m ³	30 μg/m ³					
104-AA-024	1st Floor Column B-19	<3.31	μg/m ³	30 μg/m ³					
104-AA-025	1st Floor Column E-23	<3.31	μg/m ³	30 μg/m ³					
104-AA-026	1st Floor Column A-28	<3.29	μg/m³	30 μg/m ³					
104-AA-027	1st Floor Column G-30	<3.86	μg/m ³	30 μg/m ³					
104-AA-028	1st Floor Column J-34	<3.31	μg/m ³	$30 \mu\text{g/m}^3$					
104-AA-029	1st Floor Column A-38	<3.31	μg/m ³	30 μg/m ³					
104-AA-030	1st Floor Column J-45	<3.31	$\mu g/m^3$	$30 \mu\text{g/m}^3$					
104-AA-031	1st Floor Column E-49	<3.29	μg/m ³	30 μg/m ³					
104-AA-032	1st Floor Column A-52	<3.69	μg/m ³	$30 \mu\text{g/m}^3$					
104-AA-033	Basement West Tunnel	<3.71	μg/m ³	30 μg/m ³					
104-AA-034	Basement Column G-25	<3.73	μg/m ³	$30 \mu\text{g/m}^3$					
104-AA-035	Basement Column F-25	<3.73	μg/m³	$30 \mu\text{g/m}^3$					
104-AA-036	Basement Column E-27	<3.69	μg/m ³	$30 \mu\text{g/m}^3$					
104-AA-037	Basement Column C-27	<3.07	μg/m³	$30 \mu\text{g/m}^3$					
104-AA-038	Basement Column A-27	<3.12	μg/m ³	$30 \mu\text{g/m}^3$					
104-AA-039	Northeast Penthouse Air Handler	<3.15	$\mu g/m^3$	$30 \mu\text{g/m}^3$					
104-AA-040	Northwest Penthouse Boiler Room	<3.17	μg/m ³	30 μg/m ³					
104-AA-041	Middle Penthouse Elevator Room	<3.19	$\mu g/m^3$	$30 \mu\text{g/m}^3$					
104-AA-042	Southwest Penthouse Chiller Room	<3.17	μg/m ³	$30 \mu\text{g/m}^3$					
104-AA-043	Penthouse SEC-D	<3.19	μg/m³	30 μg/m ³					

	BUILDING	104			
104-AA-044	Blank	2	μg	30 μg/m ³	
	Lead Surface Dust Wi	ipe Samples			
Sample #	Sample # Location		Unit of Measure	GSA Selected Target Level	
104-PbW-001	2nd Floor Column B-51 Window Sill	30	μg/ft ²	200 μg/ft ²	
104-PbW-002	2nd Floor Column C-37 Top of Cabinet	<10.0	μg/ft ²	200 μg/ft ²	
104-PbW-003	2nd Floor Column J-27 Floor Tile by Door	42.3	μg/ft ²	200 μg/ft ²	
104-PbW-004	2nd Floor Column E-20 Top of Cabinet	<10.0	μg/ft ²	200 μg/ft ²	
104-PbW-005	2nd Floor Column B-17 Stair Tread	42.3	μg/ft ²	200 μg/ft ²	
104-PbW-006	2nd Floor Column F-9 Top of Light	189	μg/ft ²	200 μg/ft ²	
104-PbW-007	1st Floor Column D-4 Concrete Floor	63.3	μg/ft ²	200 μg/ft ²	
104-PbW-008	1st Floor Column D-8 Top of File Cabinet	<10.0	μg/ft ²	200 μg/ft ²	
104-PbW-009	1st Floor Column E-15 Concrete	<10.0	μg/ft ²	200 μg/ft ²	
104-PbW-010	1st Floor Column J-33 Tope of File Cabinet	<10.0	μg/ft ²	200 μg/ft ²	
104-PbW-011	1st Floor Column E-47 Concrete Floor	<10.0	μg/ft ²	200 μg/ft ²	
104-PbW-012	1st Floor Column A-50 Top of Rolling Stack	86	μg/ft ²	200 μg/ft ²	
104-PbW-013	Basement Column G-26 Tank Cradle	1150	μg/ft ²	200 μg/ft ²	
104-PbW-014	Basement Column F-27 Metal Stair to Crawl Space	1670	μg/ft ²	200 μg/ft ²	
104-PbW-015	Basement D-27 Top of Tank	375	μg/ft ²	200 μg/ft ²	
104-PbW-016	Northwest Penthouse Boiler Room Floor	28.2	μg/ft ²	200 μg/ft ²	
104-PbW-017	Center Elevator Penthouse Electrical Box	156	μg/ft ²	200 μg/ft ²	
104-PbW-018	Penthouse Sec-D Floor	210	μg/ft ²	200 μg/ft ²	
104-PbW-019	Blank	<10.0	μg	200 μg/ft ²	
	Lead Surface Dust Micr	o-vac Samples			
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level	
104-PbV-001	2nd Floor Column C52.5 Top of Ceiling Tile	<92.9	μg/ft ²	200 μg/ft ²	
104-PbV-002	2nd Floor Column B-45 Carpet	<92.9	μg/ft ²	200 μg/ft ²	
104-PbV-003	2nd Floor Column G-31 Tope of Ceiling Tile	<92.9	μg/ft ²	200 μg/ft ²	
104-PbV-004	2nd Floor Column F-27 Top of Ceiling Tile	<92.9	μg/ft ²	200 μg/ft ²	
104-PbV-005	2nd Floor Column G-24 Top of Ceiling Tile	<92.9	μg/ft ²	200 μg/ft ²	
104-PbV-006	2nd Floor Column E-20 Carpet Below Copier	<92.9	μg/ft ²	$200 \mu g/ft^2$	
104-PbV-007	2nd Floor Column B-17 Freight Elevator Floor	<92.9	μg/ft ²	200 μg/ft ²	
104-PbV-008	2nd Floor Column F-4 Closet Floor	<92.9	μg/ft ²	$200 \mu\text{g/ft}^2$	
104-PbV-009	1st Floor Column D-4 Top of Rolling File Cabinet	<92.9	μg/ft ²	$200 \mu g/ft^2$	
104-PbV-009 104-PbV-010	1st Floor Column D-4 Top of Rolling File Cabinet 1st Floor Column D-8 Carpet in Microfilm Office	<92.9 <92.9	μg/ft ² μg/ft ²	200 μg/ft ² 200 μg/ft ²	
			+		
104-PbV-010	1st Floor Column D-8 Carpet in Microfilm Office	<92.9	μg/ft ²	200 μg/ft ²	
104-PbV-010 104-PbV-011	1st Floor Column D-8 Carpet in Microfilm Office 1st Floor Column J-16 Top of Fire Hose Cabinet	<92.9 <92.9	μg/ft ² μg/ft ²	200 μg/ft ² 200 μg/ft ²	
104-PbV-010 104-PbV-011 104-PbV-012	1st Floor Column D-8 Carpet in Microfilm Office 1st Floor Column J-16 Top of Fire Hose Cabinet 1st Floor Column C-21 Top of Fabric Chair	<92.9 <92.9 <92.9	μg/ft ² μg/ft ² μg/ft ²	200 μg/ft ² 200 μg/ft ² 200 μg/ft ²	
104-PbV-010 104-PbV-011 104-PbV-012 104-PbV-013	1st Floor Column D-8 Carpet in Microfilm Office 1st Floor Column J-16 Top of Fire Hose Cabinet 1st Floor Column C-21 Top of Fabric Chair 1st Floor Column F-32 Carpet	<92.9 <92.9 <92.9 <92.9	μg/ft² μg/ft² μg/ft² μg/ft²	200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ²	
104-PbV-010 104-PbV-011 104-PbV-012 104-PbV-013 104-PbV-014	1st Floor Column D-8 Carpet in Microfilm Office 1st Floor Column J-16 Top of Fire Hose Cabinet 1st Floor Column C-21 Top of Fabric Chair 1st Floor Column F-32 Carpet 1st Floor Column E-47 Top of File Cabinet	<92.9 <92.9 <92.9 <92.9 <92.9 <92.9	μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ²	200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ²	
104-PbV-010 104-PbV-011 104-PbV-012 104-PbV-013 104-PbV-014 104-PbV-015	1st Floor Column D-8 Carpet in Microfilm Office 1st Floor Column J-16 Top of Fire Hose Cabinet 1st Floor Column C-21 Top of Fabric Chair 1st Floor Column F-32 Carpet 1st Floor Column E-47 Top of File Cabinet 1st Floor Column A-50 Top of Speaker	<92.9 <92.9 <92.9 <92.9 <92.9 <92.9 <92.9	μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ²	200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ²	
104-PbV-010 104-PbV-011 104-PbV-012 104-PbV-013 104-PbV-014 104-PbV-015 104-PbV-016	1st Floor Column D-8 Carpet in Microfilm Office 1st Floor Column J-16 Top of Fire Hose Cabinet 1st Floor Column C-21 Top of Fabric Chair 1st Floor Column F-32 Carpet 1st Floor Column E-47 Top of File Cabinet 1st Floor Column A-50 Top of Speaker First Floor Column F-9 Tope of Cabinet	<92.9 <92.9 <92.9 <92.9 <92.9 <92.9 <92.9 <92.9 <92.9	μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ²	200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ²	
104-PbV-010 104-PbV-011 104-PbV-012 104-PbV-013 104-PbV-014 104-PbV-015 104-PbV-016 104-PbV-017	1st Floor Column D-8 Carpet in Microfilm Office 1st Floor Column J-16 Top of Fire Hose Cabinet 1st Floor Column C-21 Top of Fabric Chair 1st Floor Column F-32 Carpet 1st Floor Column E-47 Top of File Cabinet 1st Floor Column A-50 Top of Speaker First Floor Column F-9 Tope of Cabinet Basement - Column J-27 West Entrance Floor	<92.9 <92.9 <92.9 <92.9 <92.9 <92.9 <92.9 <92.9 <92.9 <92.9	μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ²	200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ²	
104-PbV-010 104-PbV-011 104-PbV-013 104-PbV-014 104-PbV-015 104-PbV-016 104-PbV-017 104-PbV-018	1st Floor Column D-8 Carpet in Microfilm Office 1st Floor Column J-16 Top of Fire Hose Cabinet 1st Floor Column C-21 Top of Fabric Chair 1st Floor Column F-32 Carpet 1st Floor Column E-47 Top of File Cabinet 1st Floor Column A-50 Top of Speaker First Floor Column F-9 Tope of Cabinet Basement - Column J-27 West Entrance Floor Basement - Column J-27 West Tunnel Floor	<92.9 <92.9 <92.9 <92.9 <92.9 <92.9 <92.9 <92.9 <92.9 <92.9 <92.9	μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ² μg/ft ²	200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ² 200 μg/ft ²	

BUILDING 104								
104-PbV-022	Basement Column B-26 Below North Crawl Space	18	μg/ft ²	200 μg/ft ²				
104-PbV-023	Basement Column A-27 Concrete Floor at E Tunnel	38.2	μg/ft ²	200 μg/ft ²				
104-PbV-024	104-PbV-024 Basement Column B-26 Fabric Chair in Office		μg	$200 \mu g/ft^2$				



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH			
GOODFELLOW MO0609 (104) - PENTHOUSE	SUB. DATE: 03/04/16			
GENERAL SERVICES ADMINISTRATION				
PROJECT NAME:	SCALE: NTS			
GOODFELLOW GS-P-16-16-GZ7025	916029			

(b) (7)(F) TITLE:

SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE

PbW = LEAD WIPE SAMPLE

PbV = LEAD MICRO-VAC SAMPLE



OLIENT NAME.
GOODFELLOW MO0609 (104) - 2nd FLOOR
IIILE.

CLIENT NAME:

GENERAL SERVICES ADMINISTRATION

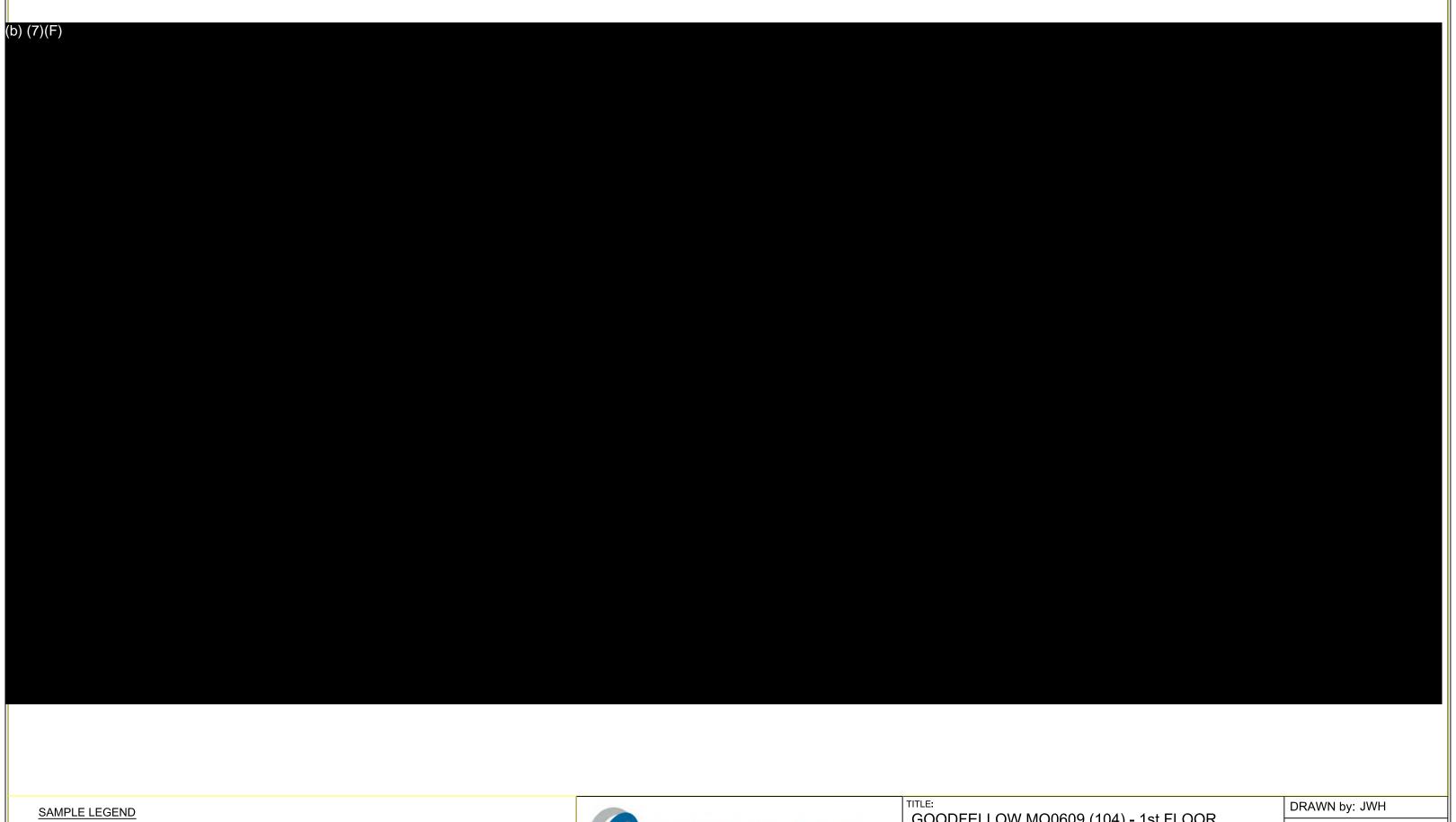
PROJECT NAME:

GOODFELLOW GS-P-16-16-GZ7025

DRAWN by: JWH

SUB. DATE: 03/04/16

SCALE: NTS 916029



▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE

PbV = LEAD MICRO-VAC SAMPLE



DRAWN by: JWH				
SUB. DATE: 03/04/16				
SCALE: NTS				
JUALL. 1913				

916029

GOODFELLOW GS-P-16-16-GZ7025



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

CustomerOCCU-TEC, INC. (3505)Address4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 160227

 Matrix
 Wipe

 Received
 02/29/16

 Analyzed
 02/29/16

 Reported
 03/01/16

Project Goodfellow Federal Center 104

Location St Louis, MO **Number** 916029

OIID	010020	Landler	OI- D-1-			
Sample ID	Cust. Sample ID	Location	Sample Date	Total	Como	DI *
Parameter		Method	Area	Total	Conc.	RL*
160227-001	104-PbV-001	2nd C52.5 Ceiling Tile	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
160227-002	104-PbV-002	2nd B45 Carpet	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-003	104-PbV-003	2nd G31 Ceiling Tile	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
160227-004	104-PbV-004	2nd F27 Ceiling Tile	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160227-005	104-PbV-005	2nd G24 Ceiling Tile	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 μg/wipe	<92.9 μg/ft2	92.9 µg/ft2
160227-006	104-PbV-006	2nd E 20 Carpet	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 μg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160227-007	104-PbV-007	2nd B17 Freight Elev Fl	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
160227-008	104-PbV-008	2nd F4 FI	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160227-009	104-PbV-009	1st D4 File Cabinet	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160227-010	104-PbV-010	1st D8 Carpet	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160227-011	104-PbV-011	1st J16 File Cabinet	02/25/16			

Minimum Total Reporting Limit: 10.0 μ g/wipe. EPA Clearance Std: 40 μ g/ft² for floors, 250 μ g/ft² for interior window sills, and 400 μ g/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 160227

 Matrix
 Wipe

 Received
 02/29/16

 Analyzed
 02/29/16

 Reported
 03/01/16

Project Goodfellow Federal Center 104

Location St Louis, MO **Number** 916029

Completo	Cust Cample ID	Lagation	Commis Data			
Sample ID Parameter	Cust. Sample ID	Location Method	Sample Date Area	Total	Conc.	RL*
Lead		EPA 7000B - Vacwipe / 3050B	0.108 f	t2 <10.0 μg/wipe	<92.9 μg/ft2	92.9 µg/ft2
160227-012	104-PbV-012	1st Fabric Chair	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 f	t2 <10.0 μg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160227-013	104-PbV-013	1st Carpet	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 f	t2 <10.0 μg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160227-014	104-PbV-014	1st E47 File Cabinet	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 f	t2 <10.0 μg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160227-015	104-PbV-015	1st A50 Speaker	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 f	t2 <10.0 μg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160227-016	104-PbV-016	1st F9 File Cabinet	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 f	t2 <10.0 μg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160227-017	104-PbV-017	Bsmt J27	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 f	t2 <10.0 μg/wipe	<92.9 μg/ft2	92.9 µg/ft2
160227-018	104-PbV-018	Bsmt W Tunnel J27	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 f	t2 <10.0 μg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160227-019	104-PbV-019	Bsmt Fire Supp. Pump J26	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 f	t2 <10.0 μg/wipe	<92.9 μg/ft2	92.9 μg/ft2
160227-020	104-PbV-020	Bsmt Stair To S Crawl G27	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 f	t2 140 μg/wipe	1300 µg/ft2	92.9 μg/ft2
160227-021	104-PbV-021	Bsmt Below N Crawl Space	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.694 f	t2 <10.0 μg/wipe	<14.4 µg/ft2	14.4 μg/ft2

Minimum Total Reporting Limit: 10.0 μ g/wipe. EPA Clearance Std: 40 μ g/ft² for floors, 250 μ g/ft² for interior window sills, and 400 μ g/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 160227

 Matrix
 Wipe

 Received
 02/29/16

 Analyzed
 02/29/16

 Reported
 03/01/16

Project Goodfellow Federal Center 104

Location St Louis, MO **Number** 916029

Hambon	0.0020					
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
160227-022	104-PbV-022	Bsmt Below N Crawl Space	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.694 ft2	59.8 μg/wipe	86.1 μg/ft2	14.4 μg/ft2
160227-023	104-PbV-023	Bsmt Entrance To E Tunnel	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.694 ft2	12.5 μg/wipe	18.0 μg/ft2	14.4 μg/ft2
160227-024	104-PbV-024	Bsmt Fabric Chair B26	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.694 ft2	26.5 μg/wipe	38.2 μg/ft2	14.4 μg/ft2
160227-025	104-PbV-025	Blank	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 μg/wipe

Analyst IH 160227-03/01/16 10:32 AM (b) (6)

Reviewed By **Marti Baird** Analyst



SCHNEIDER LABORATORIES GLOBAL, INC.

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V:\160\160227

											<u> </u>		
Submitting Co. OC	OCCU-TEC, Inc.			Lab WO#			Phone	816-23	0-5580				
4151 N. Mulberry Drive, Suite 275			Acct #	3505		Fax / Email	816-99	4-3470 / j	ayhurst@oc	cutec.com			
					**State of Collection	Missouri		"Cert. Required	, C	Yes	⊥⊠ No.		
Project Name:	Goodfellow Federal Center - 104					Speci	al Instructio	ns (include r	equests t	for special	reporting o	r data packa	ges]
Project Location: St	t. Loui	s, MO					· · · · · · · · · · · · · · · · · · ·				· . ·		
Project Number: 91	16029			· · · · · · · · · · · · · · · · · · ·		<u> </u>						·	
PO Number:													11
Turn Around Ti	me	N	Aatrix / Sample	Type (Select ONE)			Tes	sts / Analytes	(Select	ALL that A	(pply)		
2 hours*				rm should be of SAME Iditional forms as needed		tos Air / Fib	er Counts	Asbesto	s Bulk / /	Asb ID	Met	als-Total Co	nc.
☐ Same day*		maur	<u>x type.</u> Use au	ullonal forms as needed.	PCM	(NIOSH 74	10)	PLM (EPA	\ 600/R-9	3/116)	⊠ Lead	Electrical States	
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2 business day*		☐ Aqu	eous		TEM	(EPA Level	H)	PLM (Qua	litative or	ıly)	□		
3 business days*		☐ Bulk	ς	■ Wastewater	<u> </u>			NYELAP	198.1/.4/.	6			
☐ 5 business days*		□ Hi-√	ol Filter (PM10)	Mi	scellaneous	Tests	CAELAP ((EPA Inte	rim)	M	etals-Extra	. †
Full TCLP (10d)		☐ Hi-V	ol Filter (TSP)	Compliance	☐ Tota	Dust (NIOS	H 0500)	☐ TEM (Cha	itfield)		TCLP / I	ead	
☐ Weekend*		☐ Oil		Wipe	Res	Dust (NIO	SH 0600)		• •		TCLP / I	RCRA Metal	5
* not available for all t	tests .	Pair	nt .	Wipe, Composite		a - FTIR (NIC	SH 7602)	FOR AS	BESTO	S AIR:	TCLP / i	uli (w/ orga	nics)
Schedule rush organic metals & weekend te	3 4.7	Sluc	•	Micro-Vac Dust	_	a - XRD (NIC	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TYPE OF RE	SPIRATO	OR .	_	Others	Salar de la companya de la companya de la companya de la companya de la companya de la companya de la companya
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011	10 A	8 1		18t 114 G	e Cab.	rest	100cm2						
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SCHNEIDER LABORATORIES GLOBAL, INC.

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Submitting Co.	OCCU-TI	C, Inc.			ab WO#	ab WO#				816-230-5580					
151 N. Mulberry	Drive, S	uite 275			Acct#	3505		-	Fax / Email	816-994-3470 / Jayhurst@occutec.com				n .	
ansas City, MO	64116				*State of ollection	State of Missouri "Cart.									
oject Name:	Goodfe	llow Federal (Center -	104	•		ial Instruc	tions	[include re	quests	for specia	al reporting	or data pacl	(ages)	
oject Location:	St. Lou	is, MO									· ·	. · ·			
oject Number:	916029														
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Turn Around	Time	Matrix / Sa	mple Type	(Select ONE)				Tacte	Analytes	Salact	All that	Ammlul			
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Same day*		matrix type. Us	e additional	1	(NIOSH 74			PLM (EPA			▼ Lead	tais-Total C	Otio,		
i business day*	,	⊠ Aîr	☐ TEM	(AHERA)			PLM (EPA	Point C	ount)	RCRA	Metals				
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3 business days	i*	☐ Bulk	Π				NYELAP 19	8.1/.4/	.6						
5 business days	*	☐ Hi-Vol Filter (PM10) ☐ Water, Drinking				cellaneous	Tests		CAELAP (E	PA Inte	erim)	A	Metals-Extra	ct	
Full TCLP (10d)		☐ Hi-Vol Filter (TSP) ☐ Compliance				Dust (NIOS	H 0500)		TEM (Chatf	ield)		TCLP /			
Weekend*		☐ Oil 🗵 Wipe				Dust (NIO	SH 0600)					TCLP /	RCRA Meta	ls	
ot available for a	II tests	F			Silica - FTIR (NIOSH 7602)				FOR ASB	ESTO	S AIR:	TCLP / Full (w/ organics)			
hedule rush organ netals & weekend					☐ Silica	- XRD (NIC	SH 7500)	TYF	PE OF RES	PIRAT	OR		Others	Tyrinday Line Son	
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DIL	4		154	F9 File	Cab	inct	\perp							11	
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SCHNEIDER LABORATORIES GLOBAL, INC.

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	7	80	4-353-67 www.s		800-785-LABS (c.com e-m		• Fax 80 @slabin		75						*. *
Submitting Co.	OCCU-TE	EC, Inc.	ī			Lab WO#			;	Phone	816-2	30-5580			
1151 N. Muiberry	Drive, S	uite 27	5			Acct #	ct # 3505 Fax / Email 816-994-3470 / jayhurste						jayhurst@oc	cutec.com	
Kansas City, MO	64116					**State of Collection									
Project Name:	Goodfe	llow F	ederal Co	enter	- 104		Spec	ial Instructi		25 m22 (2) 860 (4)	**************************************	for specia	l reporting o	r data pack	ages]
roject Location.	St. Lou)							·. ·					
Project Number:	916029		***												
PO Number:															
Turn Around	Time		Matrix / Sam	ple Ty	pe (Select ONE)			Te	ests / i	Analytes	(Select	ALL that A	(pply)		
2 hours*		A. matr	ll samples on ix <u>type.</u> Use	form s additio	hould be of SAME nal forms as needed.		tos Air / Fil				s Bulk / /			als-Total Co	onc.
Same day 1 business day*	me day*				Solid	1=	i (NIOSH 74 I (AHERA)	100)			\ 600/R-9 \ Point Co	•		Metale	
	day*				Waste		(EPA Level	I II)			litative or			IBIGIS	
🛍 3 business days	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Wastewater	<u> </u>			ΠN	YELAP '	198.1/.4/.	6			
☐ 5 business days		☐ Hi-\	Vol Filter (PIV	l10) 🔲	Water, Drinking	Mi	scellaneou	s Tests		AELAP (EPA Inte	rim)	M	etals-Extrac	xt
☐ Fuli TCLP (10d)			Vol F#ter (TS		Compliance	1	Dust (NIOS	• .		EM (Cha	tfield)		TCLP / I	_ead	
☑ Weekend* not available for a	II tests	☐ Oil ☐ Pai	nt				Dust (NIC a - FTIR (NIC		<u> </u>	ODAG	BESTO	C AID.	1=	RCRA Metals	
Schedule rush organ		Slue				!	a - XRD (NIC				SPIRAT(I (CLP/)	Full (w/ orgar Others	ncs)
metals & weekend advance.	tests In	□ Soil	1			1	Direct Exar	-	USE					Others	
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****	(1950) (1950) (1950)				· · · · ·							<u> </u>			
	4,44			ŭ. J											
¹ Type: A=area B			al E=excursi	on ²	Beginning/End of Sa			Calibration	in Lit	ers/Mint	ıte ⁴ Vo	lume in Li	ters [time in	min * flow i	n L/min]
Sa ∖_∩	mpled by	y 			Refinquished	Λ. τ	у \		ر (25	7/0	6	Sa If sa (Re	mple Dispo mples over red, w efer to Fee Schedi)SAI reight ule)
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Sample return					ce CI		R∏S(D)						WB:	110	70



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505) Address: 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn:

Project: Goodfellow Federal Center 104

Location: St Louis, MO Order #: 160226

Matrix Air Received 02/29/16 Analyzed 02/29/16 03/01/16

Reported

-Number:	916029			PC	Number			
Sample ID	Cust. ID	Location	Date	Tin	ne	Flow	Volu	me
Parameter		Method		Total	RL*		Conc.	8 Hr TWA
160226-001	104-PbA-001	2 D53	02/24/16	259	min 3	.67 L/mir	n 951	L
Lead		NIOSH 7082M		<2.00 µg	2.00	ıg	<2.11 µg/m3	<1.14 µg/m3
160226-002	104-PbA-002	2 C50	02/24/16	269	min 3	.67 L/mir	n 987	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.03 µg/m3	<1.14 µg/m3
160226-003	104-PbA-003	2 G46	02/24/16	269	min 3	.67 L/mir	n 987	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.03 µg/m3	<1.14 µg/m3
160226-004	104-PbA-004	2 C41	02/24/16	264	min 3	.67 L/mir	n 969	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.07 µg/m3	<1.14 µg/m3
160226-005	104-PbA-005	2 H36	02/24/16	260	min 3	.67 L/mir	n 954	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.10 µg/m3	<1.14 µg/m3
		Endcaps missir	g; possible cross	s-contamination	or sample	loss.		
160226-006	104-PbA-006	2 F34	02/24/16	256	min 3	.67 L/mir	n 940	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.13 µg/m3	<1.14 µg/m3
160226-007	104-PbA-007	2 G32	02/24/16	250	min 3	.67 L/mir	າ 918	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.18 µg/m3	<1.14 µg/m3
160226-008	104-PbA-008	2 G25.5	02/24/16	251	min 3	.67 L/mir	n 921	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.18 µg/m3	<1.14 µg/m3
160226-009	104-PbA-009	2 C28	02/24/16	248	min 3	.67 L/mir	n 910	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.20 µg/m3	<1.14 µg/m3
160226-010	104-PbA-010	2 D19	02/24/16	3 247	min 3	.67 L/mir	n 906	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.21 µg/m3	<1.14 µg/m3
160226-011	104-PbA-011	2 B19	02/24/16	3 242	min 3	.67 L/mir	n 888	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.26 µg/m3	<1.14 µg/m3
160226-012	104-PbA-012	2 G16	02/24/16	3 240	min 3	.67 L/mir	n 881	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.27 μg/m3	<1.14 µg/m3
160226-013	104-PbA-013	2 F14	02/24/16	3 230	min 3	.67 L/mir	n 844	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.37 µg/m3	<1.14 µg/m3
160226-014	104-PbA-014	2 H8	02/24/16	3 224	min 3	.67 L/mir	n 822	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.44 µg/m3	<1.14 µg/m3
160226-015	104-PbA-015	2 H2	02/24/16	220	min 3	.67 L/mir	n 807	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.48 µg/m3	<1.14 µg/m3
160226-016	104-PbA-016	2 N Stair	02/24/16	220	min 3	.67 L/mir	n 807	L
Lead		NIOSH 7082M		<2.00 µg	2.00 μ	ıg	<2.48 µg/m3	<1.14 µg/m3
160226-017	104-PbA-017	1 H4	02/24/16	167	min 3	.67 L/mir	n 613	L

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.

> Accrediting bodies: AIHA-LAP, LLC 100527 Page 1 of 3



Schneider Laboratories Global, Inc

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Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn:

Project: Goodfellow Federal Center 104

Location: St Louis, MO **Number:** 916029

Order #: 160226

 Matrix
 Air

 Received
 02/29/16

 Analyzed
 02/29/16

 Reported
 03/01/16

PO Number:

-Number:	916029			PC	Number:		
Sample ID	Cust. ID	Location	Date	Tin	ne Fi	low Volu	me
Parameter		Method				Conc.	
Lead		NIOSH 7082M	1	<2.00 μg	2.00 µg	<3.27 μg/m3	<1.14 µg/m3
160226-018	104-PbA-018	1 B5	02/24/16	167	min 3.67	' L/min 613	L
Lead		NIOSH 7082M		<2.00 μg	2.00 µg	<3.27 µg/m3	<1.14 µg/m3
160226-019	104-PbA-019	1 D9	02/24/16	166	min 3.67	' L/min 609	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.29 µg/m3	<1.14 µg/m3
160226-020	104-PbA-020	1 F9	02/24/16	165	min 3.67	' L/min 606	i L
Lead		NIOSH 7082M	!	<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
160226-021	104-PbA-021	1 E11	02/24/16	165	min 3.67	' L/min 606	i L
Lead		NIOSH 7082M				<3.31 µg/m3	
160226-022	104-PbA-022	1 J13	02/24/16	165	min 3.67	' L/min 606	i L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
160226-023	104-PbA-023	1 J21	02/24/16	168	min 3.67	' L/min 617	'L
Lead		NIOSH 7082M	! ! !	<2.00 µg	2.00 µg	<3.25 µg/m3	<1.14 µg/m3
160226-024	104-PbA-024	1 B19	02/24/16	165	min 3.67	' L/min 606	i L
Lead		NIOSH 7082M	!	<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
160226-025	104-PbA-025	1 E23	02/24/16	165	min 3.67	' L/min 606	i L
Lead		NIOSH 7082M	!	<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
160226-026	104-PbA-026	1 A28	02/24/16	166	min 3.67	L/min 609	L
Lead		NIOSH 7082M	! ! !	<2.00 µg	2.00 µg	<3.29 µg/m3	<1.14 µg/m3
160226-027	104-PbA-027	1 G30	02/24/16	165	min 3.14	L/min 518	L
Lead		NIOSH 7082M	! ! !	<2.00 µg	2.00 µg	<3.86 µg/m3	<1.33 µg/m3
160226-028	104-PbA-028	1 J34	02/24/16	165	min 3.67	' L/min 606	i L
Lead		NIOSH 7082M	!	<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
160226-029	104-PbA-029	1 A38	02/24/16	165	min 3.67	' L/min 606	i L
Lead		NIOSH 7082M				<3.31 µg/m3	
160226-030	104-PbA-030	1 J45	02/24/16	165	min 3.67	L/min 606	i L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
160226-031	104-PbA-031	1	02/24/16	166	min 3.67	' L/min 609	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.29 µg/m3	<1.14 µg/m3
160226-032	104-PbA-032	1 A52	02/26/16	161	min 3.67	' L/min 591	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.39 µg/m3	<1.14 µg/m3
160226-033	104-PbA-033	B W Tunnel	02/26/16	178		5 L/min 543	
Lead		NIOSH 7082M	 	<2.00 μg	2.00 µg	<3.69 µg/m3	<1.37 µg/m3
160226-034	104-PbA-034	B G25	02/26/16			5 L/min 540	

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.

Accrediting bodies: AIHA-LAP, LLC 100527 Page 2 of 3



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Customer: OCCU-TEC, INC. (3505) Address:

4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn:

Project: Goodfellow Federal Center 104

-Location: St Louis, MO Number: 916029

Order #: 160226

Matrix Air

Received 02/29/16 Analyzed 02/29/16 Reported 03/01/16

PO Number:

PO Number:								
e Flow	Volum	е						
RL*	Conc.	8 Hr TWA						
2.00 µg	<3.71 μg/m3	<1.37 µg/m3						
nin 3.05 L/m	nin 537 L							
2.00 µg	<3.73 μg/m3	<1.37 µg/m3						
nin 3.05 L/m	nin 543 L	-						
2.00 µg	<3.69 µg/m3	<1.37 µg/m3						
nin 3.67 L/m	in 653 L	•						
2.00 µg	<3.07 μg/m3	<1.14 µg/m3						
nin 3.67 L/m	nin 642 L	•						
2.00 µg	<3.12 μg/m3	<1.14 µg/m3						
min 3.67 L/m	nin 635 L	-						
2.00 µg	<3.15 μg/m3	<1.14 µg/m3						
nin 3.67 L/m	nin 631 L							
2.00 µg	<3.17 μg/m3	<1.14 µg/m3						
nin 3.67 L/m	nin 628 L	•						
2.00 µg	<3.19 µg/m3	<1.14 µg/m3						
nin 3.67 L/m	nin 631 L							
2.00 µg	<3.17 μg/m3	<1.14 µg/m3						
min 3.67 L/m	nin 628 L	-						
2.00 µg	<3.10 µg/m3	<1.14 µg/m3						
	<3.19 μg/1113							
	<3.19 μg/πι3	, in a page of the						
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Analyst: IH

160226-03/01/16 10:44 AM

(b) (6)

Reviewed By: Marti Baird Analyst

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter PEL

Lead $0.0500 \text{ mg/m}^3 [50.0 \mu\text{g/m}^3]$

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V:\160\160226

Submitting Co.	OCCU-TE	CCU-TEC, Inc.					Lab WO#				Phone 816-230-5580							
51 N. Mulberry	Drive, Su	ite 275				Acct #	3505		Fax / Email	816-994-3470 / jayhurst@occutec.com								
ansas City, MO	64116					State of ollection	Missouri			™Cert. Required	. 🗆	Yes	X I	lo				
roject Name:	Goodfe	low Fe	deral Cente	er - 10°	<u> </u>		Specia	al Instructio	ons (ii	nclude re	quests fo	r special r	eportin	g or dat	a packa	ges]		
roject Location:	St. Loui	s, MO									,							
roject Number:	916029						·											
O Number:						1												
Turn Around	Time	M	atrix / Sample	Type (Select (ONE)			Te	sts /	Analytes	(Select A	LL that Ap	ply)		<u> </u>			
2 hours*		Ail s	samples on for	m should be of	SAME	Asbes	itos Air / Fib	er Counts	<u> </u>	Asbestos	Bulk / As	sb ID	<u>.</u>	Metals-	otal Co	1C.		
Same day*		matrix	type. Use add	ditional forms a	s neeaea.	PCN	4 (NIOSH 740	0)	P	'LM (EPA	600/R-93/	/116)	X Lead	t t				
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2 buoiness day	s*	☐ Bulk		Wastewat	er				Ŭ□ŀ	JYELAP 1	98.1/.4/.6		<u> </u>					
5 business day	s*	☐ Hi-Vo	ol Filter (PM10)) 🔲 Water,Dri	nking	M	iscellaneous	Tests		CAELAP (EPA Interi	m)	43 T.S	Metal	s-Extrac	<u>t </u>		
Full TCLP (10d	1)	☐ Hi-Vo	ol Filter (TSP)	Complian	ice	☐ Tota	al Dust (NIOS	H 0500)	י 🗆	ΓΕΜ (Cha	tfield)		TCL	P / Lead	j			
Weekend*		□ Oil		X Wipe		Res	p. Dust (NIO	SH 0600)					☐ TCŁ	P / RCF	RA Metals			
not available for	ali tests	☐ Paint	t	☐ Wipe, Co	mposite	Silic	a - FTIR (NIC	SH 7602)		FOR AS	BESTOS	AIR:	☐ TCL	P / Full	(w/ organ	ics)		
Schedule rush orga	tule rush organics, mutti-			✓ Micro-\	/ac Dust	☐ Silid	a - XRD (NIC	ISH 7500)	TYF	E OF RE	SPIRATO	R		0	thers	<u> </u>		
metals & weeken		□ soil	ongonia de la compans			. Moi	d Direct Exan	<u> </u>	US	<u> </u>			<u> </u>					
	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2)ate	Time		ample Ider		_	Wiped		pH /	Tir Start	ne ² Stop	Sta	Flow Ra	ste ³ Stop	Total⁴ Air		
Sample # Sample S	278.54	ipled**	Sampled**	(Employee,	SSN, Bld	g, water	iai, rype')	Area (ft²)	1 16	emp *					3.61			
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DATE/TIME	2-2	4-16		DATE/TIME _	12-	24-1	14							HÔ J	DB			

SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com

			www.sla	binc.c	om e	-mail: info	o@slabin	c.com							
Submitting Co.	OCCU-TI	EC, Inc.			- H	Lab WO#			F	Phone	816-23	0-5580	· <u></u>		
4151 N. Mulberry	Drive, S	uite 27	5			Acct#	3505			Fax / Email	816-99	4-3470 / ja	ayhurst@o	ccutec.cor	n
Kansas City, MO	64116					**State of Collection	Missouri			"Cert. equired) I C] Yes	X No		y i i i y y Qw ei w i i
Project Name:	Goodfe	llow F	ederal Cen	iter -	104	1,000		ial Instructio	ons (inc	lude rec	uests f	or special	reporting o	r data paci	(ages]
Project Location:	St. Lou	is, MO			•				•						
Project Number:	916029					÷								·	
PO Number:						**		· ·						~	
Turn Around	Time		Matrix / Sampl	e Type (Select ONE)			Te	sts / Ar	alvtes (Select A	ALL that A	nnlv)		1 19
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☐ Same day*		-		таніопаі т	orms as neede	a. DPCN	1 (NIOSH 7 <u>4</u> 1	00)	☐ PLI	M (EPA 6	00/R-93	3/116)	⋉ Lead	, in the	
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2 business day	2	☐ Aqu		☐ Wa		TEN	l (EPA Level	II)		M (Qualit		**	□	. 3	
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☐ Full TCLP (10d)		1	/of Filter (TSP)		ompliance		scellaneous I Dust (NIOS		1=	ELAP (El M (Chatfi		im)	TCLP /	etals-Extra	ct
☐ Weekend*				X W	•		Dust (NIQ	,		w (Chair	eiu)		_	Leao RCRA Meta	le l
* not available for a	II tests	☐ Pair	nt	☐ w	ipe, Composite	☐ Silic	a - FTIR (NIC	OSH 7602)	FC	R ASB	ESTOS	AIR:	_	Full (w/ orga	
Schedule rush organ		Sluc	-	= -	/licro-Vac Du		a - XRD (NIC		TYPE	OF RESI	PIRATO	R.		Others	
advance.	Los States	Soil	North Control of the				Direct Exam	<u></u>	USED			·	Ο		
Sample #	Hermodry in Control	ate pled**	Time Sampled**	(Empl	Sample Id loyee, SSN, E	dentification 3ldg, Materi		Wiped Area (ft²)	pH Tem		Ti Start	me ² Stop	Flov Start	/ Rate ³ Stop	Total ⁴ Air
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021	ALLAND ALLAND			1	~	EII				13	343	1628			605.55
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023	5			1	-	721				1	355	1643			616.50
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SIGNATURE		11		SIGNATL	7/-		_		o) (6)					pping Met	
ATE/TIME	- 2-2			DATE/TIN		24-14	·						FX HD	UPS [JUSM
] Sample return Temperature taken w				☐ Ice Chain-of-C	CI ustody document		R □S□ X internally withi						WB:Z	M.	

2-74-16

☐ Sample return requested ☐ Ambient temp ☐ Ice

DATE/TIME

C

Chain-of-Custody documentation continued internally within lab

DATE/TIME

Temperature taken with IR Gun A.

SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117

WO Label	

804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com Lab WO# Phone 816-230-5580 Submitting Co. OCCU-TEC. Inc. Fax / 816-994-3470 / jayhurst@occutec.com Acct # 3505 4151 N. Mulberry Drive, Suite 275 **Cert. ""State of □ Yes No. Missouri Kansas City, MO 64116 Required Collection 64 Goodfellow Federal Center -Special Instructions [include requests for special reporting or data packages] Project Name: St. Louis. MO **Project Location** 916029 Project Number: PO Number: **Turn Around Time** Matrix / Sample Type (Select ONE) Tests / Analytes (Select ALL that Apply) Asbestos Bulk / Asb ID Metals-Total Conc. 2 hours* All samples on form should be of SAME Asbestos Air / Fiber Counts matrix type. Use additional forms as needed. PLM (EPA 600/R-93/116) X Lead PCM (NIOSH 7400) ☐ Same dav RCRA Metals TEM (AHERA) PLM (EPA Point Count) X Air Solid 1 business dav Aqueous TEM (EPA Level II) PLM (Qualitative only) ☐ Waste business day* NYELAP 198.1/.4/.6 ⊠.2. Jasiness days` ☐ Bulk ☐ Wastewater ☐ Hi-Vol Filter (PM10) ☐ Water,Drinking CAELAP (EPA Interim) ☐ 5 business days* Miscellaneous Tests Metals-Extract Full TCLP (10d) Hi-Voi Filter (TSP) ☐ Total Dust (NIOSH 0500) TEM (Chatfield) TCLP / Lead Compliance TCLP / RCRA Metals ☐ Weekend* □ Oil ▼ Wipe Resp. Dust (NIOSH 0600) FOR ASBESTOS AIR: Silica - FTIR (NIOSH 7602) TCLP / Full (w/ organics) * not available for all tests ☐ Paint Wipe, Composite Micro-Vac Dust ☐ Sludge Silica - XRD (NIOSH 7500) TYPE OF RESPIRATOR Schedule rush organics, multi-Others metals & weekend tests in Mold Direct Exam USED: advance. Date Sample Identification Wiped Flow Rate3 Total⁴ Time pH / (Employee, SSN, Bldg, Material, Type1) Start Stop Sample # Sampled* Sampled** Area (ft2) Temp * Air 1420 1705 104-7611 -025 605.55 609.27 026 1712 OLT 028 665.5 1740 029 500 1749 630 1503 1749 3.47 03 i 120 1469 590·8 750 031 3.09 0920 1218 633 1221 539.85 634 1223 635 0930 1228 136 ⁴Volume in Liters [time in min * flow in L/min] ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ¹Type: A=area B=blank P=personal E=excursion Sample Disposal If samples over req. weight (Refer to Fee Schedule) Relinquished to lab by Sampled by Return to Sender (Shipping fees) Return to Serves.
Disposal by lab (\$50 fee) (b) (6) NAME (b) (6) SIGNATURE (b) (6) SIGNATUR Shipping Methods

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WO Label		

ubmitting Co.	occu-	TEC, I	nc.			Lab WO#			Phone	816-230-	5580			
51 N. Mulberry	, Drive,	, Suite	275			Acct #	3505		Fax / Email	816-994-	3470 / Jay	hurst@occ	utec.com	Managara Decir
nsas City, MO		-				**State o	Missouri		**Cert. Regulred		Yes	⊠ No		
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CustomerOCCU-TEC, INC. (3505)Address4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 160224

 Matrix
 Wipe

 Received
 02/29/16

 Analyzed
 02/29/16

 Reported
 02/29/16

Project Goodfellow Federal Center 104

Location St Louis, MO **Number** 916029

Number	916029					
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
160224-001	104-PbW-001	2nd B51 Window Sill	02/26/16			
Lead		EPA 7000B / 3050B	1.00 ft2	30.0 µg/wipe	30.0 μg/ft2	10.0 μg/ft2
160224-002	104-PbW-002	2nd C37 Cabinet	02/26/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
160224-003	104-PbW-003	2nd J27 Floor/Floor Tile	02/26/16			
Lead		EPA 7000B / 3050B	1.00 ft2	42.3 μg/wipe	42.3 μg/ft2	10.0 μg/ft2
160224-004	104-PbW-004	2nd E20 Top Of Cabinet	02/26/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
160224-005	104-PbW-005	2nd B17 Stair Tread	02/26/16			
Lead		EPA 7000B / 3050B	1.00 ft2	42.3 µg/wipe	42.3 µg/ft2	10.0 μg/ft2
160224-006	104-PbW-006	2nd F9 Light	02/26/16			
Lead		EPA 7000B / 3050B	1.00 ft2	189 µg/wipe	189 μg/ft2	10.0 μg/ft2
160224-007	104-PbW-007	1st D4 Floor	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	63.3 µg/wipe	63.3 µg/ft2	10.0 μg/ft2
160224-008	104-PbW-008	1st D8 File Cabinet	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
160224-009	104-PbW-009	1st E15 Concrete Floor	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
160224-010	104-PbW-010	1st J33 File Cabinet	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
160224-011	104-PbW-011	1st E47 Concrete Floor	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
160224-012	104-PbW-012	1st A50 File Stack	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	86.0 µg/wipe	86.0 µg/ft2	10.0 μg/ft2
160224-013	104-PbW-013	Basement G29 Tank Cradle	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	1150 μg/wipe	1150 µg/ft2	50.0 μg/ft2
160224-014	104-PbW-014	Basement F27 Stair	02/25/16			

Minimum Total Reporting Limit: 10.0 μ g/wipe. EPA Clearance Std: 40 μ g/ft² for floors, 250 μ g/ft² for interior window sills, and 400 μ g/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 160224

 Matrix
 Wipe

 Received
 02/29/16

 Analyzed
 02/29/16

 Reported
 02/29/16

Project Goodfellow Federal Center 104

Location St Louis, MO **Number** 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
Lead		EPA 7000B / 3050B	1.00 ft2	1670 µg/wipe	1670 μg/ft2	50.0 μg/ft2
160224-015	104-PbW-015	Basement D27 Top Of Tank	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	375 μg/wipe	375 μg/ft2	10.0 μg/ft2
160224-016	104-PbW-016	Penthouse NW Boiler Rm	02/26/16			
Lead		EPA 7000B / 3050B	1.00 ft2	28.2 μg/wipe	28.2 μg/ft2	10.0 μg/ft2
160224-017	104-PbW-017	Penthouse Elevator	02/26/16			
Lead		EPA 7000B / 3050B	1.00 ft2	156 μg/wipe	156 μg/ft2	10.0 μg/ft2
160224-018	104-PbW-018	Penthouse Section D Floor	02/26/16			
Lead		EPA 7000B / 3050B	1.00 ft2	210 µg/wipe	210 μg/ft2	10.0 μg/ft2
160224-019	104-PbW-019	Blank	02/26/16			
Lead		EPA 7000B / 3050B		<10.0 µg/wipe		10.0 μg/wipe

Analyst IH 160224-02/29/16 03:58 PM (b) (6)

Reviewed By Abisola Kasali

Metals Supervisor

SCHNEIDER LABORATORIES GLOBAL, INC.

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Submitting Co.	осси-т	EC, Inc	*			Lab WO#		•		Phon	e 816	-230-5580			
4151 N. Mulberry	/ Drive, S	uite 27	'5	-		Acct #	3505			Fax	816-	994-3470 /	jayhurst@c	ccutec.cor	n
Kansas City, MO	64116					**State of Collection	Missouri	ri					distribution of the second	6.507	
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* Temperature taken with IR Gun A.

**Required.

SCHNEIDER LABORATORIES GLOBAL, INC.

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4151 N. Mulberry	Drive,	Suite 27	5			Acct #	3505	6.5.	Fax /		94-3470 /	jayhurst@o	ccutec.co	710
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metals & weekend	tests in	□ Soil	<u> </u>			☐ Mold	Direct Exar	n	USED:		<u> </u>		Others	<u> </u>
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DR DS DX

Chain-of-Custody documentation continued internally within lab. Term



E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

March 2, 2016

Attention:

Jay Hurst

OCCU-TEC, Inc.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2296OCCA

Goodfellow-104 OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 29, 2016. These samples represent the TEM samples for the Goodfellow-104 - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the sixteen (16) samples are summarized in Table I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely (b) (6)

S. Dewayne Lear, B.S. TEM Laboratory Director



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow-104 - OCC# 916029

McCall and Spero Project No: MSE-2296OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I01	104-AA-001	NSD	NA	2079.80	0.0033	BDL (0.0033)*	BDL (17.7)*
I02	104-AA-002	NSD	NA	2160.10	0.0032	BDL (0.0032)*	BDL (17.7)*
103	104-AA-003	NSD	NA	2160.10	0.0032	BDL (0.0032)*	BDL (17.7)*
I04	104-AA-004	NSD	NA	2119.90	0.0032	BDL (0.0032)*	BDL (17.7)*
I05	104-AA-005	NSD	NA	2087.80	0.0033	BDL (0.0033)*	BDL (17.7)*
106	104-AA-006	NSD	NA	2055.70	0.0033	BDL (0.0033)*	BDL (17.7)*
107	104-AA-007	NSD	NA	2007.50	0.0034	BDL (0.0034)*	BDL (17.7)*
108	104-AA-008	NSD	NA	2015.50	0.0034	BDL (0.0034)*	BDL (17.7)*
I09	104-AA-009	NSD	NA	1991.40	0.0034	BDL (0.0034)*	BDL (17.7)*
110	104-AA-010	NSD	NA	1983.40	0.0034	BDL (0.0034)*	BDL (17.7)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 6 Area Analyzed Per Sample: 0.0564mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

McCall and Spero Environmental, Inc. TEM Laboratory Director:

^{*} Single fiber detection limits are used when no structures are detected.

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow-104 - OCC# 916029

McCall and Spero Project No: MSE-2296OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I11	104-AA-011	NSD	NA	1943.30	0.0035	BDL (0.0035)*	BDL (17.7)*
I12	104-AA-012	NSD	NA	1927.20	0.0035	BDL (0.0035)*	BDL (17.7)*
I13	104-AA-013	NSD	NA	1846.90	0.0037	BDL (0.0037)*	BDL (17.7)*
I14	104-AA-014	NSD	NA	1798.70	0.0038	BDL (0.0038)*	BDL (17.7)*
I15	104-AA-015	NSD	NA	1766.60	0.0039	BDL (0.0039)*	BDL (17.7)*
I16	104-AA-016	NSD	NA	1766.60	0.0039	BDL (0.0039)*	BDL (17.7)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 6 Area Analyzed Per Sample: 0.0564mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable BDL = Below Det

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director:

Date: 3\2\lorente{1}{2}\lorente{1}\lorente{1}{2}\lorente{1}{2}\lorente{1}{2}\lorente{1}{2}\lorente{1}\lorente{1}{2}\lorente{1}{2}\lorente{1}\lorente{1}{2}\lorente{1}\loren

^{*} Single fiber detection limits are used when no structures are detected.



E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC.	Telephone #: 816-231-5580	Fax #: 816-994-3470
Contact: Jay Hurst	Client Project Number: 9	16029
Relinquished by: Jeff Smith	Date: 2-26-16	Time: 1800
Written Report To: jayhurst@occutec.com; jsmith	@occutec.com	
Project Name: Goodfellow - 104		
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour(same da	ay) 24 Hour 23 Day 4-5 Day	Weekend Rush After Hour Rush
MSE Project #: MSE- 2960CL A Commen	its:	
Samples Received by: (b) (6)	Date: 229 16	Time: 1000A
Sample To Be Analyzed by: TEM AHERA / EPA 40CFR 1	Part 763	· · ·
Samples Prepared By: (b) (6)	Method: Burdett & Rood	
Samples Analyzed By:	Date: 2 29 16	

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x	Liters/Minute	= Volume
104-AA-001	2nd Flat DS3	727	1146	259	8,03	2079.8
-002	2nd Fl at C50	734	1203	269	8.03	2160.1
-063	End F1 9+ G46	741	1210	269	8,03	2160,1
-004	2nd Fl at C41	751	1215	264	8.03	2119.9
-005	ZndFl at 1736	758	1218	260	8.03	2087.8
-006	ZndFlat F34	805	1221	256	8,03	2055.7
-007	ZndFl at G3Z	814	1224	250	8,03	2007.5
-008	2nd F1 at 625.5	819	1230	251	8.03	2015.5
-009	2ndFl at C28	825	1233	248	8.03	1991.4
-010	2nd at D19	831	1238	247	8.03	1983.4
-011	2nd at Big	840	1242	242	8.03	1943.3
-012	2nd at G16	847	1247	240	8.03	1927.2
-013	2nd at F14	900	1250	230	8.03	1846.9
-014	2nd at H8	913	1257	224	8.03	1798.7
-015	2nd at toth Star HZ	920	1300	220	8.03	1766.6

Results Transmitted/Date:		Fax/Phone By:	
---------------------------	--	---------------	--

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC.	elephone #: 816-231-5580 Fax #: 816-994-3470					
Contact: Jay Hurst	Client Project Number: 916029					
Relinquished by: Jeff Swith	Date: 2-26-16 Time: 1800					
Written Report To: jayhurst@occutec.com; jsmith@	occutec.com					
Project Name: Goodfellow 704						
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour(same day)	24 Hour 2-3 Day 4-5 Day Weekend Rush After Hour Rush					
	^ ^					
	, () (
MSE Project #: MSE- 2296 OCCA Comments:	latect					
Samples Received by: (b) (6)	Date: 2 29 16 Time: 1000 H					
Sample To Be Analyzed by; TEM AHDRA / EPA 400 R Part 763						
Samples Prepared By: (b) (6)	Method: Burdett & Rood					
Samples Analyzed By:	Date: 7 29/16					
zampres zmaryżeci by.	V 1 110					

Client ID	Sample Location / Type	Start	Stop		T // // // // // // // // // // // //	17.1
Number	(I)inside(O)outside(B)blank (P)personal(A)ambient	Time	Time	Total Time x	Liters/Minute	= Volume
104-AA-016	2nd at North Star	925	1305	220	9.16	1766.6
-017	1st Fl at 14	1315	1602	167	8.03	1341
- 018	1st at BS	1319	1606	167	8,03	1341
-019	1st at D9	1328	1614	166	8.03	13:413
-020	1st at F9	1333	1618	165	8.03	1352
-021	1st at E11	1343	1628	165	8,03	1325
-022	1st at 113	1350	1635	165	8,02	1325
-023	1st at 121	1355	1643	168	8.02	1349
-024	1st at 1319	1416	1701	165	8.02	1325
-025	1st at EZ3	1420	1705	165	8.02	1325
-026	1st at A28	1427	1713	166	8.02	/333
-027	15t at 630	1432	1717	165	8.02	1325
-028	1st at) 34	1443	1728	165	8.02	1325
-029	1st at A38	1455	1746	165	8,02	1325
-030	1st at 145	1500	1745	165	8.02	1325

Results Transmitted/Date:	Fax/Phone By:
Results Transmitted/Date.	1 ax/1 none by:



E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

March 2, 2016

Attention:

Jay Hurst

OCCU-TEC, Inc.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2296OCCA.5

Goodfellow - 104 Project

OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 29, 2016. These samples represent the TEM samples for the Goodfellow - 104 Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the two (2) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S. Laboratory Director



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow - 104 Project - OCC# 916029

McCall and Spero Project No: MSE-2296OCCA.5

MSE Lab ID	Client ID	# of Asb. Struc.	Asb.	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I31	104-AA-031	NSD	NA	1333	0.0044	BDL (0.0044)*	BDL (15.2)*
I32	104-AA-032	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

CH = Chrysotile

A = Amosite

BDL = Below Detectable Limit

F=Fiber

B=Bundle

C=Cluster M=Matrix

NSD=No Structures Detected

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

- s/mm² asbestos structures per square millimeter
- s/cc = asbestos structures per cubic centimeter
- * Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

Laboratory Director:

(b) (6)					
		Date: _	3/2/	16	
		_		,	_



E-mail: customerservios@maelabs.com = Website: www.maelabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: U	CCU-TEC INC.	elephone #:	816-231-		#: 816-994-3	4/0
• • •	y Hurst		geet Numbe		9	
Relinguished by	: Japf Smith	Date:	2-26	-16	Time: /	800
Written Report	To: jayhurst@occutec.com; jsmith@	poccutec.	moc	and the second s		
Project Name:	Goodfellow 104					
Turn-Around T	Inne: (Circle One) 4 Hour 6-8 Hour same day	1 24 How	3/8 Day	4-5 Dey Wo	ekend Rush Afte	r Hour Rush
Sample To Be / Samples Prepar	MSE-2216 & CCA 5 Comments ed by: (b) (6) Analyzed by: TEM AFFERD EPA 400 TR Pa red By: (b) (6)	Dute: et 763 Muthed	Burden	1 16 1 16	Time: [DB)
Client ID Number	Sample Location / Type (Maide Openida White of Price on Alexandra)	Date:	Step Time		z Liters/Minute	
04-AA-031	14F100- 0E 49	1503	1749	166	8.03	1335
- Pa (Y	ISTA ASZ	1505	1750	165	803	11325
-032	1/57 6/ /7 32					
-032 -033	Boscomit @ Lu Tionnel	918	1218	180	803	1449
	Boscomit @ W Timmel	918		180 171	8 05	1449
-033	Bosomit @ W Time!	918	1218	180 171 177	\$ 03 \$ 03 \$ 08	1449 1424.9 1424.9
-033 -034	Boscomit @ W Timmel	918	1218	180 171 177 179	\$ 05 \$.05 \$.05 \$.05	1449 1424.9 1424.9 1441
-033 -034 -035	Basimint @ W Tunnel Bosht @ G 25 Bosht @ F 25	918 925 927	1222 1227	180 171 177 179 17 9	\$ 05 \$ 05 \$ 05 \$ 05	14L9 1424.9 1424.9 1441 1424.9
-033 -034 -035 -0X6	Bosomit @ W Tunnel BSHT @ G 25 BSMT @ F 25 BSMT @ F 27	918 925 927 929 932	1222 1222 1224 1228	180 171 177 179 171 171	8 05 8 05 8 05 8 05 8 05 8 05	1424.9 1424.9 1424.9 1424.9
250- 250- 250- 260- 700-	Roserint Q W Tunnel Right Q G 75 Bont Q F 25 Bont E F 27 Bont O C 27 Bont O A 19 Tune	918 925 927 929 932 935	1222 1224 1224 1228 1229	180 171 177 179 17 9	8 05 8 05 8 05 8 05 8 05 8 05 8 05	1449 1424.9 1424.9 1424.9 1424.9 1424.9
-033 -034 -035 -036 -037 -038	Roservit Q W Tunnel Right Q G 25 Boot Q F 25 Boot Q F 27 Boot Q C 27 Boot Q C 27 Boot Q A 27 Tunnel Perthouse NE Air Hum	918 925 927 929 932 935	1218 1222 1224 1224 1228 1229 1232	180 171 177 179 177 177 173 172	\$ 05 \$ 05 \$ 05 \$ 05 \$ 05 \$ 05 \$ 05 \$ 05	1449 1424.9 1441 1424.9 1424.9 1424.9 14389.2 1389.2
-033 -034 -035 -036 -037 -038 -039	Bosomit Q W Tunnel Bosomit Q W Tunnel Bosomit Q F 25 Bosomit Q F 27 Bosomit Q C 27 Bosomit Q A 27 Tunnel Penthouse NE Airthur Pent - New Brates	918 925 927 929 932 935 700	1218 1222 1224 1224 1228 1229 1232 1353	180 171 177 179 177 177 173 172	\$ 05 \$ 05 \$ 05 \$ 05 \$ 05 \$ 05 \$ 05 \$ 03 \$ 03	1449 1424.9 1441 1424.9 1424.9 1424.9 1434.2 1331.2
-033 -034 -035 -036 -037 -039 -040	Basimint Q W Tunnel Botht Q G 25 Botht Q F 25 Both Q F 25 Botht Q F 27 Both Q C 27 Both Q C 27 Both Q R 27 Tune, Penthouse NE Airthur Pent - No Baler Both - Mid Elev Rm	918 925 927 929 932 935 1100 1105	1218 1222 1224 1228 1229 1232 1353 1357	180 171 177 179 177 177 173 172	\$ 05 \$ 05 \$ 05 \$ 05 \$ 05 \$ 03 \$ 03 \$ 03 \$ 03	1449 1424.9 1441 1424.9 1424.9 1424.9 14389.2 1381.2 1373.1 1381.2
-033 -034 -035 -036 -037 -039 -040	Basimint Q W Tunnel Botht Q G 25 Botht Q F 25 Botht Q F 25 Botht Q F 27 Botht Q F 27 Botht Q F 27 Botht Q F 27 Botht Q F 27 Botht Q A 17 Tune, Penthouse NE Airthur Pent - No Baler Rest - Mid Eliv Rm	918 925 927 929 932 935 700 1005 7712	12.18 12.22 12.24 12.28 12.29 12.32 13.53 13.53 14.03	180 171 177 179 177 177 173 172	\$ 05 \$ 05 \$ 05 \$ 05 \$ 05 \$ 05 \$ 05 \$ 03 \$ 03	1449 1424.9 1441 1424.9 1424.9 1424.9 1434.2 1331.2
-033 -034 -035 -036 -037 -039 -040 -040	Roserint Q W Tunnel Right Q G 25 Bignit G F 25 Bignit G F 27 Bignit G C 27 Bignit G A 27 Tunie, Penthouse NE Airthur Pent - No Baler Pent - Mid Eliv Rim Pent - Sur PC	918 925 927 929 932 935 700 1005 1112 1118	1218 1222 1224 1224 1228 1229 1232 1353 1357 1403	180 171 177 179 177 177 173 172 171	\$ 05 \$ 05 \$ 05 \$ 05 \$ 05 \$ 03 \$ 03 \$ 03 \$ 03	1449 1424.9 1441 1424.9 1424.9 1424.9 14389.2 1381.2 1373.1 1381.2

Results T	ransmitted/Date		_ Fax/Phone B	sy:	A compared to the compared to
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E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

March 2, 2016

Attention:

Jay Hurst

OCCU-TEC, Inc.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2296OCCA.1

Goodfellow - 104 OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 29, 2016. These samples represent the TEM samples for the Goodfellow - 104 - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the twenty-five (25) samples are summarized in Tables I, II, & III. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

S. Dewayne Lear, B.S. TEM Laboratory Director



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow - 104 - OCC# 916029

McCall and Spero Project No: MSE-2296OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I17	104-AA-017	NSD	NA	1341	0.0044	BDL (0.0044)*	BDL (15.2)*
I18	104-AA-018	NSD	NA	1341	0.0044	BDL (0.0044)*	BDL (15.2)*
I19	104-AA-019	NSD	NA	1333	0.0044	BDL (0.0044)*	BDL (15.2)*
I20	104 - AA-020	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I21	104 - AA-021	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I22	104-AA-022	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I23	104-AA-023	NSD	NA	1349	0.0043	BDL (0.0043)*	BDL (15.2)*
I24	104-AA-024	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I25	104-AA-025	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I26	104-AA-026	NSD	NA	1333	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable SAED=Selected Area Electron Diffraction

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

EDS-Energy Dispersive Spectrometry s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director:

^{*} Single fiber detection limits are used when no structures are detected.

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow - 104 - OCC# 916029

McCall and Spero Project No: MSE-2296OCCA.1

MSE		# of			Calculated Analytical		
Lab ID	Client ID	Asb. Struc.	Asb. Type	Sample Vol. (1)	Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I27	104-AA-027	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I28	104-AA-028	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I29	104-AA-029	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I30	104-AA-030	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I33	104-AA-033	NSD	NA	1449	0.0040	BDL (0.0040)*	BDL (15.2)*
I34	104-AA-034	NSD	NA	1424.90	0.0041	BDL (0.0041)*	BDL (15.2)*
I35	104-AA-035	NSD	NA	1424.90	0.0041	BDL (0.0041)*	BDL (15.2)*
I36	104-AA-036	NSD	NA	1441	0.0041	BDL (0.0041)*	BDL (_ 15.2)*
I37	104-AA-037	NSD	NA	1424.90	0.0041	BDL (0.0041)*	BDL (15.2)*
I38	104-AA-038	NSD	NA	1424.90	0.0041	BDL (0.0041)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

NSD=No Structures Detected

NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director:

McCall and Spero Environmental, Inc.

^{*} Single fiber detection limits are used when no structures are detected.

SUMMARY OF AHERA TEM RESULTS

TABLE III

Outside Samples

Project Name: Goodfellow - 104 - OCC# 916029

McCall and Spero Project No: MSE-2296OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb.	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
139	104-AA-039	NSD	NA	1389.20	0.0042	BDL (0.0042)*	BDL (15.2)*
I40	104-AA-040	NSD	NA	1381.20	0.0042	BDL (0.0042)*	BDL (15.2)*
I41	104-AA-041	NSD	NA	1373.10	0.0043	BDL (0.0043)*	BDL (15.2)*
I42	104-AA-042	NSD	NA	1381.20	0.0042	BDL (0.0042)*	BDL (* 15.2)*
I43	104-AA-043	NSD	NA	1373.10	0.0043	BDL (0.0043)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable

BDL = Below Detectable Limit CH = Chrysotile A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6) TEM Laboratory Director:

_ Date: 33416

McCall and Spero Environmental, Inc.

^{*} Single fiber detection limits are used when no structures are detected.



1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: O	CCU-TEC INC.	Felephone #:	816-231		«#: <u>816-994-3</u>	3470
Contact: Jay	y Hurst	_	oject Numb			
	: Jeff Swith		2-26-1	6	Time: 180	0
Written Report	To: jayhurst@occutec.com; jsmith@	occutec.	com			
Project Name:	Goodfellow 704					
Turn-Around T	ime: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour	2-3 Day	4-5 Day Wee	kend Rush Afte	r Hour Rush
Samples Receive	MSE_ 2240CLA Comments	Date:	2/29/	16	Time: 100	OH
Sample To Be A	nalyzed by: TEM AHDRA / EPA 40CFR Pa	art 763				
Samples Prepar	_{ed By:} _(b) (6)	_ Method	Burdett	& Rood	·	_
Samples Analyz	ed By: [_ Date:	<u> </u>	116	· · · · · · · · · · · · · · · · · · ·	
				<u> </u>		
Client ID Number	Sample Location / Type (Dinside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time	x Liters/Minute	= Volume
104-AA-016		925	1305	220	9.16	1766.6
-017	1st Fl at H4	1315	1602	167	8.03	1341
- 018	1st at BS	1319	1606	167	8,03	1341
-019	1st at D9	1328	1614	166	8,03	13:13
-020	1st at F9	1333	1618	165	8.03	1325
-021	1st at E11	1343	1628	165	8,03	1325
-0ZL	1st at 113	1350	1635	165	8,02	1325
-023	1st at 121	1355	1643	168	8.02	1349
-024	1st at B19	1416	1701	165	8,02	1325
-025	1st at EZ3	1420	1705	165	8.02	1325
-026	1st at A28	1427	1713	166	8.02	/333
-027	15/ at G 30	1432	1717	165	8.02	1325
-028	1st at) 34	1443	1728	165	8.02	1325
-029	1st at A38	1455	1746	165	8,02	1325
-021					8.02	1325

Results Transmitted/Date: Fax/Phone By: _



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E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

			040.001	5500	016 004	2470
Company.			816-231		#: 816-994-	3470
	/ Hurst	Client Pro		er: 916029		
Relinquished by	: Jeff Smth	Date: _	2-26-	-16	Time: 180	0
Written Report	$_{ m To:}$ jayhurst@occutec.com ; jsmith@	occutec.	com			
Project Name:	Goodfellow - 104					
Turn-Around Ti	ime: (Circle One) 4 Hour 6-8 Hour(same day)	24 Hour	2-3 Day	4-5 Day Week	end Rush Aft	er Hour Rush
GO POOTOAS	Age of Signature and the second secon	11	I			
MSE Project #:	MSE- 77960CH.) Comments	INTAL	7			
Samples Receive	MSF- 27960CCA./ ed by: (b) (6)	_ Date: ¿	2/29/	16	Time: 100	<u> </u>
Sample To Be A	nalyzed by; TEM A HERA PEPA 40CFR Pa	rt 763	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	<u> </u>	<u></u>	
Samples Prepar	ed By:(b) (6)	Method:				
Samples Analyz		Date:	3 111	6	·	
-						
Client ID	Sample Location / Type	Start	Stop	Total Time v	Liters/Minute	= Volume
Number	(I)inside(O)outside(B)blank (P)personal(A)ambient	Time	Time			
104-AA-33	Bomt @ West Tunnel	918	1218	8.05	180	1449
-34	Bsmt@ 625	925	1222	8.05	177	1424.9
-35	BSmt@ F25	927	1224	8,05	177	1424.9
-36	BSMt Q EZ7	929	1228	8.05	179	144)
-37	Banto C27	932	1229	8,05	177	1424.9
-38	Bent Q AZ7	935	1232	8,05	177	1424.9
-39	Penthouse -NE Air Han	1100	1353	8.03	173	1389.2
-40	Pent - NW Boiler	1105	1357	8,07	172	1381.2
-41	Part - Mid Elev Ra	1112	1403	8.03	171	1373.1
-42	Pent - SW PC	1118	1410	8,03	172	1381.2
-43	Pent- SCC-D	1/24	1415	8.03	171	1373.1
-44	Blank			-~		
				\subseteq	<u>く</u>	
			<u> </u>			
Results Trans	mitted/Date:	Far	x/Phone B	y:		
Results Halls	mitted/Date			·		

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDI	NG 104E		
	Asbestos TEM	I Air Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104E-AA-001	1st Floor Column M-51	<15.2	s/mm ²	70 s/mm ²
104E-AA-002	1st Floor Column L-50.5	<15.2	s/mm ²	70 s/mm ²
104E-AA-003	1st Floor Column O-47	<15.2	s/mm ²	70 s/mm ²
104E-AA-004	1st Floor Column O-45	<15.2	s/mm ²	70 s/mm ²
104E-AA-005	2nd Floor Column M-43	<15.2	s/mm ²	70 s/mm ²
104E-AA-006	2nd Floor Column O-46	<15.2	s/mm ²	70 s/mm ²
104E-AA-007	2nd Floor Column L-49	<15.2	s/mm ²	70 s/mm ²
104E-AA-008	Basement Southeast	<15.2	s/mm ²	70 s/mm ²
104E-AA-009	Basement Southeast	<15.2	s/mm ²	70 s/mm ²
104E-AA-010	Basement Center	<15.2	s/mm ²	70 s/mm ²
104E-AA-011	Basement Southwest	<15.2	s/mm ²	70 s/mm ²
104E-AA-012	Blank		Not Analyzed	
	Lead Air	Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104E-PbA-001	1st Floor Column M-51	<3.90	μg/m³	$30 \mu g/m^3$
104E-PbA-002	1st Floor Column L-50.5	<3.31	μg/m³	30 μg/m ³
104E-PbA-003	1st Floor Column O-47	<3.31	μg/m³	$30 \mu g/m^3$
104E-PbA-004	1st Floor Column O-45	<3.31	μg/m³	30 μg/m ³
104E-PbA-005	2nd Floor Column M-43	<3.31	μg/m³	30 μg/m ³
104E-PbA-006	2nd Floor Column O-46	<3.31	μg/m³	30 μg/m ³
104E-PbA-007	2nd Floor Column L-49	<3.31	μg/m³	30 μg/m ³
104E-PbA-008	Basement Southeast	<3.31	μg/m³	30 μg/m ³
104E-PbA-009	Basement Southeast	<3.31	μg/m³	30 μg/m ³
104E-PbA-010	Basement Center	<3.31	μg/m³	30 μg/m ³
104E-PbA-011	Basement Southwest	<3.31	μg/m³	30 μg/m ³
104E-PbA-012	Blank	<2.00	μg	30 μg/m ³

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDING 1	04E		
	Lead Surface Dust Wi	pe Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104E-PbW-001	1st Floor Column M-48 Top of Shelf	<10	μg/ft²	200 μg/ft ²
104E-PbW-002	1st Floor Column L-45 Window Sill	<10	μg/ft²	200 μg/ft ²
104E-PbW-003	1st Floor Column L-43 Top of Light Fixture	210	μg/ft²	200 μg/ft ²
104E-PbW-004	2nd Floor Column L-44 Window Sill	<10	μg/ft²	200 μg/ft ²
104E-PbW-005	2nd Floor Column M-43.5 Concrete Floor	10	μg/ft²	200 μg/ft ²
104E-PbW-006	2nd Floor Column L-43 Angle Iron Support	2880	μg/ft²	200 μg/ft ²
104E-PbW-007	Blank	<10	μg	200 μg/ft ²
	Lead Surface Dust Micro	o-vac Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104E-PbV-001	1st Floor Column L-43 Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²
104E-PbV-002	Basement Top of Equipment	<92.9	μg/ft²	200 μg/ft ²
104E-PbV-003	Basement Top of Spool	175	μg/ft²	200 μg/ft ²
104E-PbV-004	Basement Floor by East Tunnel	931	μg/ft²	200 μg/ft ²
104E-PbV-005	1st Floor L-49 Carpet	<92.9	μg/ft²	200 μg/ft ²
104E-PbV-006	1st Floor O-48 Top of Cabinet	<92.9	μg/ft²	200 μg/ft ²
104E-PbV-007	2nd Floor Column L-43 Rusted I-beam	4270	μg/ft²	200 μg/ft ²
104E-PbV-008	2nd Floor Column M-50 I-beam	3530	μg/ft²	200 μg/ft ²
104E-PbV-009	2nd Floor Column M-52 Top of Ceiling Tile	110	μg/ft²	200 μg/ft ²
104E-PbV-010	Blank	<10	μg	200 μg/ft ²



SAMPLE LEGEND

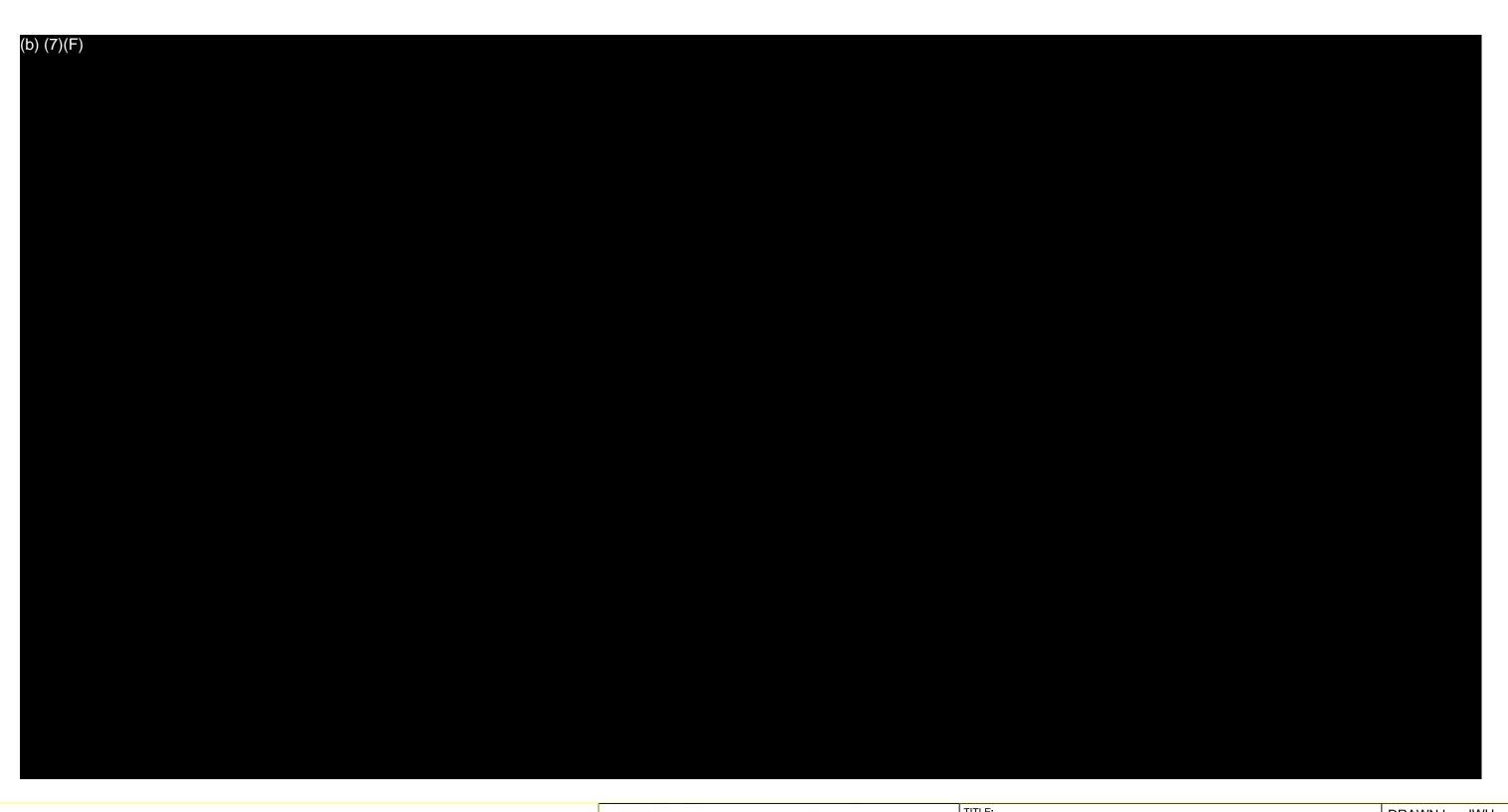
▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH
GOODFELLOW MO0610 (104E) - Basement	SUB. DATE: 03/04/16
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	
PROJECT NAME:	SCALE: NTS
GOODFELLOW GS-P-16-16-GZ7025	916029



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



IITLE:	DRAWN by:	JWH
GOODFELLOW MO0610 (104E) - 2nd FLOOR	SUB. DATE:	03/04/16
GENERAL SERVICES ADMINISTRATION		
PROJECT NAME:	SCALE:	NTS
GOODFELLOW GS-P-16-16-GZ7025	916029	



GOODFELLOW GS-P-16-16-GZ7025

916029

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505)

Address: 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn:

Project: Goodfellow
Location: St Louis, MO
Number: 916029

Order #: 159458

Matrix Air

 Received
 02/22/16

 Analyzed
 02/23/16

 Reported
 02/24/16

PO Number:

manibor.	0.0020			. `	<i>-</i>					
Sample ID	Cust. ID	Location	Date	Tiı	ne	FI	ow	Volu	ıme	
Parameter		Method	 	Total	1 1 1 1	RL*		Conc.		8 Hr TWA
159458-001	104E-PbA-001	1st Floor M51	02/17/16	165	min	3.11	L/min	51:	3 L	
Lead		NIOSH 7082M		<2.00 µg	1 1 1	2.00 µg		<3.90 µg/m3		<1.34 µg/m3
159458-002	104E-PbA-002	1st Floor L50.5	02/17/16	165	min	3.67	L/min	60	6 L	
Lead		NIOSH 7082M		<2.00 μg	 	2.00 µg		<3.31 µg/m3		<1.14 µg/m3
159458-003	104E-PbA-003	1st Floor O-47	02/17/16	165	min	3.67	L/min	60	6 L	
Lead		NIOSH 7082M		<2.00 µg	1	2.00 µg		<3.31 µg/m3		<1.14 µg/m3
159458-004	104E-PbA-004	1st Floor O-45	02/17/16	165	min	3.67	L/min	60	6 L	
Lead		NIOSH 7082M		<2.00 μg	 	2.00 µg		<3.31 µg/m3		<1.14 µg/m3
159458-005	104E-PbA-005	2nd M-43	02/17/16	165	min	3.67	L/min	60	6 L	
Lead		NIOSH 7082M						<3.31 µg/m3		
159458-006	104E-PbA-006	2nd O-46	02/17/16	165	min	3.67	L/min	60	6 L	
Lead		NIOSH 7082M	 	<2.00 μg	1 1	2.00 µg		<3.31 µg/m3		<1.14 µg/m3
159458-007	104E-PbA-007	2nd L-49	02/17/16	165	min	3.67	L/min	60	6 L	
Lead		NIOSH 7082M	1	<2.00 µg	1 1	2.00 µg		<3.31 µg/m3		<1.14 µg/m3
159458-008	104E-PbA-008	Basement SE	02/17/16	165	min	3.67	L/min	60	6 L	
Lead		NIOSH 7082M		<2.00 µg	1	2.00 µg		<3.31 µg/m3		<1.14 µg/m3
159458-009	104E-PbA-009	Basement SE	02/17/16	165	min	3.67	L/min	60	6 L	
Lead		NIOSH 7082M	 					<3.31 µg/m3		<1.14 µg/m3
159458-010	104E-PbA-010	Basement Center	02/17/16	165	min	3.67	L/min	60	6 L	
Lead		NIOSH 7082M		<2.00 μg	1	2.00 µg		<3.31 µg/m3		<1.14 µg/m3
159458-011	104E-PbA-011	Basement SW	02/17/16	165	min	3.67	L/min	60	6 L	
Lead		NIOSH 7082M		<2.00 µg	1 1 1	2.00 µg		<3.31 µg/m3		<1.14 µg/m3
159458-012	104E-PbA-012	Blank	02/17/16	i						
Lead		NIOSH 7082M		<2.00 µg	1	2.00 µg				

Analyst: IH

159458-02/24/16 09:14 AM

(b) (6)

Reviewed By: Abisola Kasali Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter PEL

Lead $0.0500 \text{ mg/m}^3 [50.0 \text{ } \mu\text{g/m}^3]$

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.

Accrediting bodies: AIHA-LAP, LLC 100527
Page 1 of 1



SCHNEIDER LABORATORIES GLOBAL, INC.

159458

V:\159\159458

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Submitting Co.	OCCI	U-TEC Inc.			Lab WO#	i		Phone	816-236	6-230-5580				
4151 N. Mulberry	d Deire	e Suite 97			Acct#	3505		Fax / Email	$\overline{}$					
Kansas City, MO					**State of Collection			**Cert.			ayhurst@oc ⊠ No	cutec.com		
Project Name:	Goo	dfellow					al Instructio	ns [include re	quests fo	or special r	eporting or	data packa	ges]	
Project Location:	St. L	.ouis. MC)											
Project Number:														
PO Number:												-		
Turn Around Tin	ne (T/	AT)	Matrix / Sample	Type (Select ONE)			Tes	sts / Analytes	(Select A	LL that Ap	ply)			
2 hours		A	All samples on fo	rm should be of SAME		Asbestos ín	Air	Asbes	tos in Bu	lk	. M	etals-Total	_	
Same day* †		mat	<u>rix type.</u> Use ad	ditional forms as needed.	PCM	(NIOSH 740	00)	☐ PLM			X Lead			
1 business day	†	⊠ Air		☐ Solid	☐ TEM	(AHERA)		PLM (Point	t Count)	ļ	RCRA M	etals		
2 business days	s* †	☐ Aq	ueous	Waste Waste	□ ТЕМ	(EPA Level	ll)	Pl.M (Qual	itative onl	y) [TCLP		
■ 3 business days	s* †	☐ Bu	ılk .	☐ Wastewater	Mi	scellaneous	Tests	NYELAP		İ	☐ TCLP / L	ead		
5 business day	s * †	□ Hi	-Vol Filter (PM10) 🔲 Water,Drinking	☐ Tota	l Dust (NIOS	H 0500)	CAELAP (Point Cou	nt)	TCLP / R	CRA Metals		
* Not available for al	f tests	☐ Hi	-Vol Filter (TSP)	Compliance	☐ Res	p. Dust (NIO	SH 0600)	TEM (Chai	field)		TCLP / F	ull (w/ organ	iCS) 10 day	
A job received pas		□ Oi	l	☑ Wipe	Silica	a - FTIR (NIC	OSH 7602)	o			Microbiology			
† will begin its TAT to next business day		☐ Pa	int	☐ Wipe, Composite	☐ Silica	a - XRD (NIC	SH 7500)	FOR ASI	BESTOS	AIR:				
Schedule rush orga	nics, m	nulti- 🗖 Slo	udge	Micro-Vac Dust		Other		TYPE OF RE	_					
∞etals & weekend advance.	d tesis	in so						USED:			<u> </u>			
		Date	Time	Sample Ide	entification		Wiped	pH/	Ti	me²	Flow Rate ³		Total ⁴	
Sample #		Sampled*		(Employee, SSN, Blo			Area (ft²)	Temp *	Start	Stop	Start	Stop	Air	
104E-104-00	>1 -	2/17		1st Floor	_ M.	۶ ۱	3.11		0938	1224	3.11	3.11	513.15	
104E-PBH-00	2	1		15th Floor) <	0.5			3950	1235	3.67	3.67		
104E-PBA-00				1st Floor	0-	47			005	1250	3.67	3.67		
104E-464-00	24	1		14 Floor	0-0	15			1010	1255	3.67	3.67		
104EP6A-00	>5			2 nd	M-	43			<u>1032</u>	1317	3,67	3.67		
104E-764- 0	26			2nd	0 -	46			1037	1322	3.67	3.67		
104E-PBA-00	7			2 nd	1-	49			1045	1330	3.67	3.67		
104 ENPA-00	ष्ट			Basment	SE				1108	1353	3-67	3.67		
104E-PBH-00	\rightarrow			Basement	SE			<u> </u>	108	1353	3.67	3.67		
104 E-PBA-CI		V	- P-Pa	Basnent	Can		Calibration in		1105	1363		3.67		
	All soil	and aqueous	samples must be s	Excursion ² Beginning/End e ent in adequate quantity for de	uplicate analy	sis to be perfo	med per EPA	requirements. Fa	ilure to per	form a samp	le duplicate an	alysis,		
			sample quantity, wi	Il lead to a disclaimer on the re		_	out customer re	esponse held ove	r 30 days w	nii be voided			nsal	
NAME Just	amp	led by Arno	(1)	Relinquishe	ed to lab	by Seed	-	2-2	2-1	6	Sample Disposal Return to Sender (shipping fees) Disposal by lab			
ture (b) (6	5)		SIGNATURE (b) (6			■ <u> </u>	b) (6)			(\$50 fee for excessive weight) Shipping Methods			
DATE / TIME	2-1	17-16		DATE / TIME		900		o, (o)			DFX UPS USM			
☐ Sample retur			Ambient temp	☐ Ice CI Chain-of-Custody documenta		⊒ R⊡ S⊿					WB:2	235	-	



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Submitting Co.	occi	J-TEC Inc				Lab WO#			Phone 816-230-558							
4454 N. Mulharra	Drive	o Guito 3	76			Acct#	3505	Fax / Email	946 004	1 2470 / 5		cutec.com				
4151 N. Mulberry	DITO	e, suite z	/3			**State of	ate of ***				Г		x No	:cutec.com		
Kansas City, MO	6411	6				Collection	Missouri	<u> </u>	-	Required	-				·	
Project Name:	Goo	dfellow					Speci	al Instructio	enc	[include re	quests fo	r special	reporting or	data packa	iges]	
Project Location:	St L	ouis, M	0													
Project Number:	9160	29														
PO Number:		:														
Turn Around Time (TAT) Matrix / Sample Type (Select ONE) Tests / Analytes (Select ALL that Apply)																
2 hours* All samples on form should be of SAME matrix type, Use additional forms as needed.											tos in Bu	ik		letals-Total		
Same day* †		ma	tnx	type. Use add	ditional forms as needed	PCM	1 (NIOSH 74)	00)		PLM			⋉ Lead			
1 business day †					Solid	TEN	(AHERA)			PLM (Poin	t Count)		RCRA M	letals		
2 business days	s * †	□^	que	ous	☐ Waste	TEM	(EPA Level	II)		PLM (Qua	litative onl	y)		TCLP		
☑ 3 business days	s* †	□в	ulk		☐ Wastewater	Mi	scellaneous	Tests	NYELAP				TCLP/L	ead		
5 business days	s * †	ΠH	i-Vo	ol Filter (PM10)	Water, Drinking	☐ Tota	l Dust (NIOS	H 0500)		CAELAP (Point Cou		TCLP / RCRA Metals			
* Not available for all	tests	□ H	i-Vo	ol Filter (TSP)	Compliance	Res	p. Dust (NIO	SH 0600)		TEM (Cha	tfield)		TCLP / Full (w/ organics) 10 day			
A job received pas † will begin its TAT to					☑ Wipe	☐ Silic	a - FTIR (NIC	OSH 7602)		<u> </u>	<u> </u>		Microbiology			
next business day	iθ	□P	aint		☐ Wipe, Composite		a - XRD (NIC	OSH 7500)		FOR AS	BESTOS	AIR:	☐ BACT (MPN & P/A)			
Schedule rush organ		. 1	_	je	Micro-Vac Dus	<u>t</u>	Other		ΤY	PE OF RE	SPIRATO	R į	Mold Direct Exam			
advance.	1000	‴ □ s	oil			<u> </u>			ŲS	SED:			Flow Rate ³			
Comple #		Date		Time				Wiped Area (ft²)	١,	pH/		ne ²	Start	Rate ³ Stop	Total⁴ Air	
Sample #	,	Sampled 2/		Sampled**			iai, rype)	Alea (III)		Temp *	Start	Stop				
104E-P6A-0	34	/17	1		Baserre	ω_{-}		1		1102	1363	3.67	3.67			
104E-964-01	2	J			Blau		_		-		_	-	_	_		
	- -	<u> </u>	+						\vdash				-	<u> </u>		
		-														
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	du	e to a lack o	san	nple quantity, wil	l lead to a disclaimer on the	report. All pro	blem jobs with	out customer n	espo	onse held ove	er 30 days w	ill be voided	and disposed	of.		
s	amp	led by	1	,	Relinquish		· ^		_	2	2-1	<u>_</u>	I	ample Disp m to Sender		
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ι TURE (b) (6	5)			signature (b) (6)		(b) (6)					Shipping Methods				
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☐ Sample retur	n req	uested 🗆	Aı	mbient temp	□ lce CI_		ROSD	X Re					WB:	723		

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

CustomerOCCU-TEC, INC. (3505)Address4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159406

 Matrix
 Wipe

 Received
 02/22/16

 Analyzed
 02/22/16

 Reported
 02/23/16

Project Goodfellow 104E
Location St Louis, MO
Number 916029

-Number	916029					
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159406-001	104E-PbV-001	1st FL L43 Ceiling Tile	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159406-002	104E-PbV-002	Basement Top Of Equip	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159406-003	104E-PbV-003	Basement Top Of Spool	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	18.9 μg/wipe	175 μg/ft2	92.9 μg/ft2
159406-004	104E-PbV-004	Basement Floor By Tunnel	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	100 μg/wipe	931 µg/ft2	92.9 μg/ft2
159406-005	104E-PbV-005	1st FL L49 Carpet	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159406-006	104E-PbV-006	1st FL O48 Cabinet	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159406-007	104E-PbV-007	2nd FL L43 I Beam	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	459 µg/wipe	4270 μg/ft2	92.9 μg/ft2
159406-008	104E-PbV-008	2nd FL M50 I Beam	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	380 µg/wipe	3530 μg/ft2	92.9 μg/ft2
159406-009	104E-PbV-009	2nd FL M52 Ceiling Tile	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	11.8 µg/wipe	110 µg/ft2	92.9 μg/ft2
159406-010	104E-PbV-010	Blank	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 μg/wipe
159406-011	104E-Pbw-001	M48 1st Floor	02/17/16			

Minimum Total Reporting Limit: 10.0 μ g/wipe. EPA Clearance Std: 40 μ g/ft² for floors, 250 μ g/ft² for interior window sills, and 400 μ g/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

CustomerOCCU-TEC, INC. (3505)Address4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159406

 Matrix
 Wipe

 Received
 02/22/16

 Analyzed
 02/22/16

 Reported
 02/23/16

Project Goodfellow 104E
Location St Louis, MO
Number 916029

Number	310023					
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159406-012	104E-Pbw-002	1st FL L45 Sill	02/17/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159406-013	104E-Pbw-003	1st FLK L43 Light	02/17/16			
Lead		EPA 7000B / 3050B	1.00 ft2	210 µg/wipe	210 μg/ft2	10.0 μg/ft2
159406-014	104E-Pbw-004	2nd FL L44 Win Sill	02/17/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159406-015	104E-Pbw-005	2nd FL M43.5 FI	02/17/16			
Lead		EPA 7000B / 3050B	1.00 ft2	10.0 μg/wipe	10.0 μg/ft2	10.0 μg/ft2
159406-016	104E-Pbw-006	2nd FL L43 I Beam	02/17/16			
Lead		EPA 7000B / 3050B	1.00 ft2	2880 μg/wipe	2880 μg/ft2	100 μg/ft2
159406-017	104E-Pbw-007	Blank	02/17/16			
Lead		EPA 7000B / 3050B		<10.0 µg/wipe		10.0 μg/wipe

Analyst MHB 159406-02/23/16 09:55 AM

(b) (6)

Reviewed By **Abisola Kasali**Metals Supervisor



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com



V:\159\159406

Submitting Co.	Submitting Co. OCCU-TEC Inc.					Lab WO#	Phone 816-230-5580							
4151 N. Mulberry	/ Drive, S	Suite 275			. 71	Acct#	3505		Fax / Email	816-994-3470 /	jayhurst@occ	utec.com		
Kansas City, MO	64116				,	**State of Collection	Missouri		**Cert. Required	☐ Yes	⊠ No			
Project Name:	Goodfe	ellow -	104	E			4.	I Instruction	ns [include re	quests for specia	reporting or	data packaç	jes]	
Project Location:	St. Lou	is, MO							· · · · · · · · · · · · · · · · · · ·			· ,		
Project Number:	916029)	Any									,		
PO Number:								<u> </u>	<u> </u>			1, 1,		
Turn Around Tir	ne (TAT)	N	latrix / Sar	nple '	Type (Select ONE)			Tes	(Select ALL that	35				
matrix type. Use add				n should be of SAME itional forms as needed.		Asbestos in I (NIOSH 740		Asbes	tos in Bulk	M Lead	etals-Total			
Same day* †			☐ Solid	(<u> </u>			☐ PLM (Poin	t Count)	RCRA Me	etals	· .			
2 business day	-	☐ Aqui	eous		Waste	TEM	(EPA Level I	1)	PLM (Qual	itative only)		TCLP	, , , , , , , , , , , , , , , , , , ,	
3 business day	•	☐ Bulk			☐ Wastewater		scellaneous		NYELAP		TCLP / Le	9 . 201	.5	
5 business day	•	· -	ol Filter (P ol Filter (T		☐ Water Drinking ☐ Compliance	I	i Dust (NIOSI	·	☐ CAELAP (TCLP/R			
		Oii	or mer (1		☑ Wipe		a - FTIR (NIO					icrobiology		
A job received past 3PM † will begin its TAT the next business day A job received past 3PM D Oil Paint			1	☐ Wipe, Composite	Silic	a - XRD (NIO	. ']	FOR AS	BESTOS AIR:	BACT (M		٠.		
Schedule rush organics, multi-		 (s	Micro-Vac Dust	Other				SPIRATOR	Mold Direct Exam					
advance.	100 Sept.	Date	Time	V25.3	Sample Ide	ntification		Wiped	DH /	Time ²	Flow	Rate ³	Total ⁴	
Sample #	1752 8 4 156	mpled**	Sample	40.0	(Employee, SSN, Bld			Area (ft²)	Temp *	Start Stop	Start	Stop	Air	
104E PBV-0	01 2-	7-14		W 445	1#floor 643	Cailing	Tile	100cmz						
104E-P6U-000	.	1				,	ipment							
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104E-PbV-00	5				1st floor 149	Tan	set	_						
104E-PbV-00	Ç				1st floor 048	Cub	inet	_						
104E-P6V-00	7				2nd floor L43	IB	eam							
104E-PBV-00	5	1			2nd floor M50	I	leam							
104E-P6U-00	9				2" floor MSZ	Ceil	ing Tile	4	. *					
104E-13V-01		rea B=Blank	(P≈Persona	al E=F	BLANK xcursion 2Beginning/End of	of Sample P	eriod ³ Pump (Calibration in 1	Liters/Minute 4\	olume in Liters [tim	ne in min × flow	in L/min]		
	All soil and	agueous s	amples musi	t he se	nt in adequate quantity for du lead to a disclaimer on the re	inlicate anal	vsis to be perfor	med per EPA	requirements. F	ailure to perform a sa	mple duplicate ar	nalysis,		
	Sampled	. 1			Relinquishe	ed to lah	łóy		22	16		ample Disp on to Sender osal by lab		
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S STURES	()	7-14		- 1	DATE / TIME _ 2 ~/ 9		w	- (0	o) (6)		FX.	Shipping Methods FX UPS USM HD DB		
☐ Sample returner * Temperature taken			ambient te		☐ Ice CI Chain-of-Custody documenta		R S				WB:	223	2	

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SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com

Submitting Co.	Submitting Co.						b WO# Phone 816-230-5580							
	:U-TEC	inc.			Acct#			Fax /						
4151 N. Mulberry Dri	ive, Su	ite 275		·	**State of	3505		Email **Cert.	9 99, 50, 50, 50, 50, 50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	yhurst@oc	cutec.com		
Kansas City, MO 641	116				Collection	ction Missouri Required Yes X No								
Project Name: Go	<u>odfel</u>	low	-104E			Special Instructions [include requests for special reporting or data packages]								
Project Location: St.	Louis	s, MO	·											
Project Number: 916	6029									,		. ,		
PO Number:									•					
Turn Around Time (TAT)	M	atrix / Sample	Type (Select ONE)	Tests / Analytes (Select ALL that Apply)									
☐ 2 hours* All samples on form should be of SAME						Asbestos in	,		stos in Bul			letals-Total		
Matrix type. Use additional forms as needs □ Same day* †				litional forms as needed.	PCM	(NIOSH 740	00)	PLM		,	⊠ Lead			
1 business day* †		X Air		Solid	☐ TEN	(AHERA)		PLM (Poir	nt Count)	Ì	RCRA M	etals		
			Waste	☐ TEM	(EPA Level	(I)	PLM (Qua	litative only	<i>(</i>)		TCLP			
☑ 3 business days*† ☐ Bulk ☐ Wastewater				☐ Wastewater	Mi	<u>iscellane</u> ous	Tests	NYELAP			TCLP/L			
☐ 5 business days* † ☐ Hi-Vol Filter (PM10) ☐ Water, Drinking				Water, Drinking	☐ Tota	al Dust (NIOS	H 0500)	CAELAP		nt)	TCLP / R			
* Not available for all tests						p. Dust (NIO		TEM (Cha	atfield)	ŀ	LI TCLP / F	uil (w/ organ	nics) 10 day	
A job received past 3PM Oil Wipe † will begin its TAT the				_		a - FTIR (NIC					_	icrobiology	'	
next business day						a - XRD (NIC	SH 7500)	FOR ASBESTOS AIR:			BACT (MPN & P/A) Mold Direct Exam			
etals & weekend tests in						Other		TYPE OF RESPIRATOR USED:				ect Exam		
advance	temperaturally sales	BECCHOOL NAME		Sample Ide			Wiped		Tir	ne ²	Flow	Rate ³	Total⁴	
Sample #	Section Control Mode	ate pled**	Time Sampled**	(Employee, SSN, Bl		ial, Type1)	Area (ft2)	pH / Temp *	Start	Stop	Start	Stop	Air	
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1002-007			0955	1st Floor	14	5:11	1							
104E-5PM-003			10 20	1st Floor L43	s la	لما	1							
104 E - PLW-004			เงนอ	2nd Floor Let	. '	90m 2'11	1.							
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104E-6PM-000			1055	2nd Floor Lu	,	bean	1				<i>i</i>	,	1, 1,	
1048-8PM -001				Blank			_	_	_	-		_		
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¹Type	: A=Are	a B≃Blan	k P=Personal E=	Excursion ² Beginning/End	of Sample	Period ³ Pump	Calibration in	Liters/Minute	Volume in l	iters [time	in min × flow	in L/min]		
All :	nail and	221122112	amples must be s	sent in adequate quantity for o	dunlicate ana	lysis to be perf	ormed per EPA	requirements.	Failure to per	rform a sam	ple duplicate a	nalysis,		
San	npled			Relinquish				· · ·			. s	ample Disp		
$\tau \cup (0, 1)$			NAME Here	un.	2		2/1	22-	16	☐ Dispo	rn to Sender osal by lab			
(b) (6)			SIGNATURE (b) (6)						(\$50 fee for excessive weight) Shipping Methods				
2 TORE			DATE / TIME 2-10	0 1	CATTO		(b) (6)			,	UPS DB			
DATE THE		tod \Box	1			DRD SE	- X X Re	ece			WB:	<u>~~</u> ~	ے 2	
☐ Sample return requested ☐ Ambient temp ☐ *Temperature taken with IR Gun A. **Required.				Chain-of-Custody documen	tation continu			_))	

1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 25, 2016

Attention:

Jay Hurst

OCCU-TEC INC.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2226OCCA.3

Goodfellow Project

OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 22, 2016. These samples represent the TEM samples for the Goodfellow Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eleven (11) samples are summarized in Tables I and II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

S. Dewayne Dear, B.S. TEM Laboratory Director



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow Project - OCC# 916029

McCall and Spero Project No: MSE-2226OCCA.3

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I001	104E-AA-001	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
1002	104E-AA-002	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I003	104E-AA-003	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I004	104E-AA-004	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I005	104E-AA-005	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I006	104E-AA-006	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I007	104E-AA-007	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
1008	104E-AA-008	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
1009	104E-AA-009	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I010	104E-AA-010	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable BDL = Below

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director:

Date: 2 25 1 L

s/mm² - asbestos structures per square millimeter

^{*} Single fiber detection limits are used when no structures are detected.

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow Project - OCC# 916029

McCall and Spero Project No: MSE-2226OCCA.3

MSE Lab ID	Client ID	# of Asb. Struc.	Asb.	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I011	104E-AA-011	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M-Motrie

NSD=No Structures Detected

NA = Not Applicable I

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

^{*} Single fiber detection limits are used when no structures are detected.



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E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company:	OCCU-TEC INC.	elephone #:	816-231	-5580 Fa	x #: 816-994-	3470
Contact:	Jay Hurst	Client Pro	oject Numb	er: 91602	29	
Relinquished	(b) (6)	Date: 2	2-17-14	<u>, </u>	Time: 170	2
Written Rep	ort fo: jayhurst@occutec.com; jsmith@	occutec.	com		· · · · · · · · · · · · · · · · · · ·	
Project Nam	e: Goodfellow					
Turn-Aroun	d Time: (Circle One) 4 Hour 6-8 Hour(same day)	24 Hour	26 Day	4-5 Day We	ekend Rush Af	ter Hour Rush
ra Balara	The second secon		<u> </u>	·		
MSE Projec	t#: MSE-2226 OCA . 3 Comments	: Inta	a			· · · · · · · · · · · · · · · · · · ·
Samples Rec	(1.) (0)	te:	2.22	.10	Time:	1:00 AU
Sample To E	Be Analyzed by: TEM AHERA / EPA 40CFR Pa	rt 763				
Samples Pre	_{pared By:} (b) (6)	Method:	Burdett	& Rood		
Samples Ana		Date:	2/2	5/16_		
_ 						
Client ID	Sample Location / Type	Start	Stop	Total Time	x Liters/Minute	- Volume
Number	(I)inside(O)outside(B)blank (P)personal(A)ambient	Time	Time	10tal lime	X Litters/Minute	- volume
104E-AA-G	1 Floor / NOT	0938	1224	165	8.03	1324. 95
104E-AA-0	1 1 12 1305 1 30 1 3 1	0950	1235	165	8.03	1324.95
104E-AA-0	1 2 12/10/01 2 ()=-1/	1005	1250	165	7.03	1324.95
104E-AA-00		1010	1255	165	8.03	1324.95
164E-AA-00	2 F100F 1 10(3-4-5	1032	1317	165	8.03	1324.95
104E-AA-0	~ F (OOF 7 D (O	1037	1322	165	8.03	1374.95
104E-AA-00		1045	1330	165	8,03	1324.95
104 E-AA-00	Basemen JL	1108	1353	165	8.03	1324.95
104E-AA-00	July Control of the c	1108	1353	165	8.03	1324.95
104E-AA-01	Jusciality Curci	1108	1353	165	8.03	1324.95
104E-AA-0	Customer, ove	1108	1353	165	8.03	1324.95
104E-AA-0	DIZ Blank	~				
					-	
		1		<u> </u>	<u> </u>	
_	•					
Results Tra	ansmitted/Date:	Fax	/Phone B	y:		

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDING 104F											
	Asbestos TEM	I Air Samples										
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level								
104F-AA-001	1st Floor Column P-35	<17.7	s/mm²	70 s/mm ²								
104F-AA-002	1st Floor Column L-31	<17.7	s/mm ²	70 s/mm ²								
104F-AA-003	1st Floor Column P-29	<17.7	s/mm ²	70 s/mm ²								
104F-AA-004	1st Floor Column O-35	<17.7	s/mm ²	70 s/mm ²								
104F-AA-005	2nd Floor Column L-32	<17.7	s/mm ²	70 s/mm ²								
104F-AA-006	2nd Floor Column M-30	<17.7	s/mm ²	70 s/mm ²								
104F-AA-007	2nd Floor Column M-35	<17.7	s/mm ²	70 s/mm ²								
104F-AA-008	Basement Column O-32	<17.7	s/mm ²	70 s/mm ²								
104F-AA-009	Basement Column L-33	<17.7	s/mm ²	70 s/mm ²								
104F-AA-010	Basement South Tunnel	<17.7	s/mm ²	70 s/mm ²								
104F-AA-011	Basement North Tunnel	<17.7	s/mm ²	70 s/mm ²								
104F-AA-012	Blank		Not Analyzed									
	Lead Air	Samples										
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level								
104F-PbA-001	1st Floor Column P-35	<3.22	$\mu g/m^3$	30 μg/m ³								
104F-PbA-002	1st Floor Column L-31	<3.32	μg/m³	30 μg/m ³								
104F-PbA-003	1st Floor Column P-29	<3.46	$\mu g/m^3$	30 μg/m ³								
104F-PbA-004	1st Floor Column O-35	<3.55	$\mu g/m^3$	30 μg/m ³								
104F-PbA-005	2nd Floor Column L-32	<3.75	μg/m³	30 μg/m ³								
104F-PbA-006	2nd Floor Column M-30	<3.82	μg/m³	30 μg/m ³								
104F-PbA-007	2nd Floor Column M-35	<3.93	μg/m³	30 μg/m ³								
104F-PbA-008	Basement Column O-32	<2.97	$\mu g/m^3$	30 μg/m ³								
104F-PbA-009	Basement Column L-33	<2.96	μg/m³	30 μg/m ³								
104F-PbA-010	Basement South Tunnel	<2.96	μg/m³	30 μg/m ³								
104F-PbA-011	Basement North Tunnel	<3.25	$\mu g/m^3$	30 μg/m ³								
104F-PbA-012	Blank	<2.00	μg	30 μg/m ³								

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

BUILDING 104F											
	Lead Surface Dust Wi	pe Samples									
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level							
104F-PbW-001	1st Floor Column L-35.5 Hallway	<10	μg/ft²	200 μg/ft ²							
104F-PbW-002	1st Floor Column O-32 Office	<10	μg/ft²	200 μg/ft ²							
104F-PbW-003	1st Floor Column O-27.5 Entrance	<10	μg/ft²	200 μg/ft ²							
104F-PbW-004	2nd Floor Column M-35 Phone Room	23.4	μg/ft²	200 μg/ft ²							
104F-PbW-005	2nd Floor Column P-28 I-Beam	2950	μg/ft²	200 μg/ft ²							
104F-PbW-006	2nd Floor Column M-27.5 Storage Room	<10	μg/ft²	200 μg/ft ²							
Lead Surface Dust Micro-vac Samples											
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level							
104F-PbV-001	Basement Column O-32 Floor	1650	μg/ft²	200 μg/ft ²							
104F-PbV-002	Basement North Tunnel Floor	336	μg/ft²	200 μg/ft ²							
104F-PbV-003	Basement North Tunnel Floor	<92.9	μg/ft²	200 μg/ft ²							
104F-PbV-004	1st Floor Column O-35 Mechanical Room Floor	217	μg/ft²	200 μg/ft ²							
104F-PbV-005	1st Floor Column N-34.5 Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²							
104F-PbV-006	1st Floor Column M-31 Carpet	<92.9	μg/ft²	200 μg/ft ²							
104F-PbV-007	2nd Floor Column L-35.5 Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²							
104F-PbV-008	2nd Floor Column P-28 Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²							
104F-PbV-009	2nd Floor Column L-27 Floor	<92.9	μg/ft²	200 μg/ft ²							
104F-PbV-010	Blank	<10	μg	200 μg/ft ²							



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE

PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH
GOODFELLOW MO0611 (104F) - Basement	SUB. DATE: 03/04/16
CLIENT NAME:	
GENERAL SERVICES ADMINISTRATION	
	CCALE: NTC
DDO IFOT NAME.	SCALE: NTS

916029

GOODFELLOW GS-P-16-16-GZ7025





SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE

PbW = LEAD WIPE SAMPLE

PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH
GOODFELLOW MO0611 (104F) - 1st FLOOR	SUB. DATE: 03/04/16
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	
DENCIFICAL SERVICES ADMINISTRATION	SCALE: NTS

916029

GOODFELLOW GS-P-16-16-GZ7025

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Order #:

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

 Matrix
 Wipe

 Received
 02/23/16

 Analyzed
 02/23/16

 Reported
 02/23/16

159645

Project Goodfellow Federal Center-104F

Location St Louis, MO
Number 916029

	0.00=0					
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159645-001	104F-PbV-001	Bsmt Floor	02/17/16			
Lead		EPA 7000B - Vacwipe / 305	0B 0.108	ft2 177 μg/wipe	1650 µg/ft2	92.9 µg/ft2
159645-002	104F-PbV-002	Bsmt Floor	02/17/16			
Lead		EPA 7000B - Vacwipe / 305	0B 0.108	ft2 36.2 μg/wipe	336 µg/ft2	92.9 µg/ft2
159645-003	104F-PbV-003	Bsmt Floor	02/17/16			
Lead		EPA 7000B - Vacwipe / 305	0B 0.108	ft2 <10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159645-004	104F-PbV-004	1st Fl Mech Rm Floor	02/17/16			
Lead		EPA 7000B - Vacwipe / 305	0B 0.108	ft2 23.4 μg/wipe	217 μg/ft2	92.9 μg/ft2
159645-005	104F-PbV-005	1st Ceiling Tile	02/17/16			
Lead		EPA 7000B - Vacwipe / 305	0B 0.108	ft2 <10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159645-006	104F-PbV-006	1st Carpet	02/17/16			
Lead		EPA 7000B - Vacwipe / 305	0B 0.108	ft2 <10.0 μ g/wipe	<92.9 μg/ft2	92.9 μg/ft2
159645-007	104F-PbV-007	2nd Ceiling Tile	02/17/16			
Lead		EPA 7000B - Vacwipe / 305	0B 0.108	ft2 <10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159645-008	104F-PbV-008	2nd Ceiling Tile	02/17/16			
Lead		EPA 7000B - Vacwipe / 305	0B 0.108	ft2 <10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159645-009	104F-PbV-009	2nd Floor	02/17/16			
Lead		EPA 7000B - Vacwipe / 305	0B 0.108	ft2 <10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159645-010	104F-PbV-010	Blank	02/17/16			
Lead		EPA 7000B - Vacwipe / 305	0B	<10.0 µg/wipe		10.0 μg/wipe

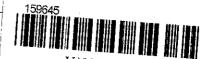
Analyst MHB 159645-02/23/16 04:20 PM (b) (6)

Reviewed By **Derek Jackson**Analyst

SLG

SCHNEIDER LABORATORIES GLOBAL, INC.

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V:\159\159645

Submitting Co.	bmitting Co. OCCU-TEC, Inc.				Lab WO#	O# Phone 816-230-5580								
4151 N. Mulberry	/ Drive, S	iuite 275			Acct#	3505			Fax /	816-9	94-3470 /	jayhurst@oc	cutec.cor	n
Kansas City, MO	64116				**State of Collection									
Project Name:	Goodfe	ellow F	ederal Cen	ter- 104F	Fig. 1 & Bulkey, provide within	Special Instructions [include requests for special reporting or data packag								kages]
Project Location:	St. Lou	iis, MO												•
Project Number:	916029)			,							-		
PO Number:				**			:							
Turn Around	Time	N	latrix / Sampi	e Type (Select ONE)	. John H. Y		Te	ste / An	alvtes	Select	ΔII that	4 ninhe)	44.4	
2 hours*		All	samples on fo	rm should be of SAME	Asbes	Tests / Analytes (Select ALL that tos Air / Fiber Counts Asbestos Bulk / Asb ID					Metals-Total Conc.			
☐ Same day*		matro	<u>x type.</u> Use ad	lditional forms as needed.	☐ PCM	(NIOSH 74	100)			600/R-9		X Lead		
1 business day	•	X Air		Solid	☐ TEM	(AHERA)	÷	☐ PLN	I (EPA	Point Co	ount)	☐ RCRA M	letals	*
2 business day	*	☐ Aqu	eous	☐ Waste	□ TEM	(EPA Level	LII)	☐ PLN	/ (Quali	tative or	nly)	<u> </u>		
■ 3 business days	3*	☐ Bulk	;	☐ Wastewater				□ NYI	ELAP 19	98.1/.4/,	6	П		
			ol Filter (PM10) Water, Drinking	Mi	scellaneou	s Tosts	— □ CAE	ELAP (E	PA Inte	rim)		etals-Extra	
Full TCLP (10d))	1	ol Filter (TSP)			Dust (NIOS		☐ TEN	100		,	TCLP / L		<u>Gt</u>
☐ Weekend*		Oil		₩ Wipe		Dust (NIC	• • •		. (5.75.	,		TCLP/F		do ·
* not available for a	all tests	Pain	t	☐_Wipe, Composite		- FTIR (NI			R ASE	ESTO	S AIR:	1=		
Schedule rush orgal		Slud	ae .(Micro-Vac Dust	1	- XRD (NIC	•					☐ TCLP / Full (w/ organics)		
metals & weekend		□ Soil		П		Direct Even		TYPE OF RESPIRATOR USED:			П	Others	<u> </u>	
advance.	医 物質 r	ate	Time	Sample Ide	=1		Wiped		/		ime ²		Rate ³	T = 14
Sample #	7- 1pt 18610	pled**	Sampled**	(Employee, SSN, Bio		al, Type¹)	Area (ft²)	pH Tem	- 1	Start	Stop	Start	Stop	_ Total⁴ Air
104F-PbV-00	71 2-	17-16	1500	Bamt - Flo	00		100cm2							
-00	Ź	1		Bsmf - F	loor		100c-2			٠				
-003	3		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Bomt - F	-loor	•	100cm2			·				
-000	1	22.07		1st Fl- Me	chRm	Floor	100 cm2							
-00	2 - 2 (5) (100) 2 - 100 (5) - 3, 2			1st - Ceili	ng Til	la	100 cm							
-000	6			1st - Ca.	pet		100cm							
-00	W0.40390			2nd - Ceil	ing Ti	le	10000							:
-00	8			2nd- Cai	1.ng 7	The	100cm2							
-00	9 🔝	₩	.	Ind- F	100-		100cm		7					
-010	2		1 7 12.1	Blank										
							-							
			43333		:	· · ·								
¹ Type: A≔area B	=blank P	persona	l E=excursion	² Beginning/End of Sa	mple Perio	od ³ Pump	Calibration	in Liter	s/Minut	e ⁴ Vo	lume in Li	iters [time in	min * flow	in L/min1
Sampled by Relinquis												Şaı	mple Disponented of the control of t	osai
1-56 5 16 100				1005	- 44			2	2	1	_			
(b) (6)			(b) (6)	12.46		2		_	٠. ر	-	Return to Sender (Shipping fees) Disposal by lab (\$50 fee)			
			SIGNATURE _			(b)	(6)				Shipping Methods			
, the Ma			DATE/TIME <u>2-21-1</u>		600		(0)				FX UPS USM			
☐ Sample return * Temperature taken wi				☐ Ice ☐ CI		R □ S □→ internally with						WB: <u>_</u>) (n_

Analysis Report

EPA 7000B / 3050B



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Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159644

 Matrix
 Wipe

 Received
 02/23/16

 Analyzed
 02/23/16

 Reported
 02/23/16

Project Goodfellow 104F Location St Louis, MO Number 916029

Sample ID Cust. Sample ID Location Sample Date **Parameter** Total Conc. RL* Method Area 159644-001 104F-PbW-001 1st FI Hallway 02/17/16 EPA 7000B / 3050B 1.00 ft2 10.0 µg/ft2 Lead <10.0 µg/wipe <10.0 µg/ft2 02/17/16 159644-002 104F-PbW-002 1st FI Office Lead EPA 7000B / 3050B 1.00 ft2 <10.0 µg/wipe <10.0 µg/ft2 10.0 µg/ft2 159644-003 104F-PbW-003 1st FI Entrance 02/17/16 EPA 7000B / 3050B Lead 1.00 ft2 <10.0 µg/wipe <10.0 µg/ft2 10.0 µg/ft2 159644-004 104F-PbW-004 2nd Fl Phone Rm 02/17/16 EPA 7000B / 3050B Lead 1.00 ft2 23.4 µg/wipe 23.4 µg/ft2 10.0 µg/ft2 159644-005 104F-PbW-005 2nd FI I Beam 02/17/16 EPA 7000B / 3050B Lead 100 µg/ft2 1.00 ft2 2950 µg/wipe 2950 µg/ft2 159644-006 104F-PbW-006 2nd Fl Storage Rm 02/17/16

1.00 ft2

Analyst MHB 159644-02/23/16 04:21 PM

Lead

(b) (6)

<10.0 µg/ft2

10.0 µg/ft2

Reviewed By **Derek Jackson**Analyst

<10.0 µg/wipe



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e-mail: info@slabinc.com **Submitting Co** Lab WO# Phone OCCU-TEC Inc 816-230-5580 Fax / Acct # 4151 N. Mulberry Drive, Suite 275 Email 3505 816-994-3470 / jayhurst@occutec.com **State of **Cert Kansas City, MO 64116 Collection Missouri Yes X No Required JOYF Project Name: Goodfellow ~ Special Instructions [include requests for special reporting or data packages] Project Location: St. Louis, MO Project Number: 916029 PO Number: Turn Around Time (TAT) Matrix / Sample Type (Select ONE) Tests / Analytes (Select ALL that Apply) 2 hours* All samples on form should be of SAME Asbestos in Air Asbestos in Bulk Metals-Total matrix type. Use additional forms as needed. ☐ Same dav* ± PCM (NIOSH 7400) □ PLM X Lead ☐1 business day*† **⊠** Air ☐ Solid TEM (AHERA) PLM (Point Count) RCRA Metals 2 business days* † Aqueous ☐ Waste ☐ TEM (EPA Level II) PLM (Qualitative only) TCLP X 3 business days* † ☐ Bulk ☐ Wastewater ☐ NYELAP Miscellaneous Tests TCLP / Lead 5 business days* † □ ქii-Vol Filter (PM10) □ Water, Drinking Total Dust (NIOSH 0500) CAELAP (Point Count) TCLP / RCRA Metals * Not available for all tests ☐ Hi-Vol Fitter (TSP) ☐ Compliance Resp. Dust (NIOSH 0600) ☐ TEM (Chatfield) TCLP / Full (w/ organics) 10 day Oil A job received past 3PM (X Wide Silica - FTIR (NIOSH 7602) П † will begin its TAT the Microbiology Paint ☐ Wipe, Composite next business day Silica - XRD (NIOSH 7500) BACT (MPN & P/A) FOR ASBESTOS AIR: Słudge Micro-Vac Dust Schedule rush organics, multi-TYPE OF RESPIRATOR Other. Mold Direct Exam tals & weekend tests in advance. USED: Date Time Sample Identification Wiped Time² Flow Rate³ pH/ Total4 Sample # Sampled (Employee, SSN, Bldg, Material, Type1) Sampled** Area (ft2) Temp * Start Stop Start Air -17-16 104F-PbW-001 SF -007 I CT -003 1 SF -004 -605 SF lsF -006

All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of Sampled by Sample Disposal Relinquished to lab by 7:23/6 Return to Sender (Shipping fees))eff Disposal by lab (b) (6) SIGNATURE (b) (6) Shipping Methods (b) (6) DATE / TIME ☐ Sample return requested ☐ Ambient temp ☐ Ice * Temperature taken with IR Gun, A. Chain-of-Custody documentation continued internally within lab. Tel

Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min × flow in Limin]

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

OCCU-TEC, INC. (3505) **Customer:** Address:

4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn:

Project: Goodfellow - 104F -Location: St. Louis, MO Number: 916029

Order #: 159639

Matrix Air Received

02/23/16 Analyzed 02/23/16 Reported 02/24/16

PO Number:

Sample ID	Cust. ID Location		Date	9	Time Flow			v	Volum	е
Parameter		Method			Total		RL*	C	onc.	8 Hr TWA
159639-001	104F-PbA-001	1st FL P35	02/17/1	16	204	min	3.05 L	/min	622 L	
Lead		NIOSH 7082M	 		<2.00 µg		2.00 µg	<:	3.22 µg/m3	<1.37 µg/m3
159639-002	104F-PbA-002	1st FL L31	02/17/1	16	198	min	3.05 L	/min	604 L	
Lead		NIOSH 7082M	1		<2.00 µg		2.00 µg	<:	3.32 µg/m3	<1.37 µg/m3
159639-003	104F-PbA-003	1st FL P29	02/17/1	16	190	min	3.05 L	/min	580 L	i
Lead		NIOSH 7082M	1							<1.37 µg/m3
159639-004	104F-PbA-004	1st FL 035	02/17/1	16	185	min	3.05 L	/min	564 L	i
Lead		NIOSH 7082M			<2.00 µg		2.00 µg	<:	3.55 µg/m3	<1.37 µg/m3
159639-005	104F-PbA-005	2nd FL L32	02/17/1	16	175	min	3.05 L	/min	534 L	
Lead		NIOSH 7082M	1		<2.00 µg		2.00 µg	<:	3.75 µg/m3	<1.37 µg/m3
159639-006	104F-PbA-006	2nd FL M30	02/17/1	16	172	min	3.05 L	/min	525 L	
Lead		NIOSH 7082M	1		<2.00 µg		2.00 µg	<:	3.82 µg/m3	<1.37 µg/m3
159639-007	104F-PbA-007	2nd FL M35	02/17/1	16	167	min	3.05 L	/min	509 L	i
Lead		NIOSH 7082M	! ! !		<2.00 µg		2.00 µg	<:	3.93 µg/m3	<1.37 µg/m3
159639-008	104F-PbA-008	Bsmt O32	02/17/1	16	221	min	3.05 L	/min	674 L	
Lead		NIOSH 7082M	! ! !							<1.37 µg/m3
159639-009	104F-PbA-009	Bsmt L33	02/17/1	16	222	min	3.05 L	/min	677 L	
Lead		NIOSH 7082M	! ! !		<2.00 µg		2.00 µg	</td <td>2.96 μg/m3</td> <td><1.37 µg/m3</td>	2.96 μg/m3	<1.37 µg/m3
159639-010	104F-PbA-010	Bsmt Tunnel South	02/17/1	16	222	min	3.05 L	/min	677 L	
Lead		NIOSH 7082M	! ! !		<2.00 µg		2.00 µg	</td <td>2.96 μg/m3</td> <td><1.37 µg/m3</td>	2.96 μg/m3	<1.37 µg/m3
159639-011	104F-PbA-011	Bsmt Tunnel North	02/17/1	16	202	min	3.05 L	/min	616 L	
Lead		NIOSH 7082M	 		<2.00 µg		2.00 µg	<:	3.25 µg/m3	<1.37 µg/m3
159639-012	104F-PbA-012	Blank	02/17/1	16						
Lead		NIOSH 7082M	1		<2.00 µg		2.00 µg			

Analyst: IH

159639-02/24/16 09:30 AM

(b) (6) Reviewed by. Apisola Kasali

Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter PEL

 $0.0500 \text{ mg/m}^3 [50.0 \text{ } \mu\text{g/m}^3]$ Lead

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.

> Accrediting bodies: AIHA-LAP, LLC 100527 Page 1 of 1



SCHNEIDER LABORATORIES GLOBAL, INC.

0-5117 59-1475

V:\159\159639

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com

Submitting Co.	OCCU-TEC Inc.							Phone	Phone 816-230-5580						
151 N. Mulberry Drive, Suite 275						3505		Fax / Email	816-99/	816-994-3470 / jayhurst@occutec.com					
Kansas City, MO		aite 275			**State of Collection			Pequired ☐ Yes ☒ No							
Project Name:	Goodfel	low	- 104	IF		Spec	ial Instructio	ns [include r	equests fo	r special re	eporting or	data packa	iges]		
Project Location:	St. Loui	s, MO					-			:					
Project Number:															
PO Number:		-								·					
Turn Around Time (TAT) Matrix / Sample Type (Select ONE) Tests / Analytes (Select ALL that Apply)															
2 hours*				m should be of SAME		Asbestos ir	ı Air	Asbe	stos in Bu	lk	Metals-Total				
Same day* †	,	matrix	<u>x type.</u> Use add	ditional forms as neede	d. PCM	I (NIOSH 74	00)	PLM		<u></u>	Lead	4.			
1 business day*	·+ (X A		Solid Solid	☐ TEM	(AHERA)		PLM (Poir	nt Count)		RCRA M	etals			
2 business days	S* †	Aqu	eous.	☐ Waste	TEM	(EPA Level	16)	PLM (Qua	litative on	y)		TCLP			
🔀 3 business days	s* †	☐ Bulk	(■ Wastewater	Mi	scellaneous	Tests	☐ NYELAP			TCLP/L	ead			
5 business days	5 * †	☐ Hi-V	ol Filter (PM10) 🔲 Water,Drinking	☐ Tota	i Dust (NIOS	H 0500)	☐ CAELAP	(Point Cou	1.	TCLP / RCRA Metals				
* Not available for all	tests	☐ Hi-V	of Filter (TSP)	☐ Compliance	Compliance Resp. Do			TEM (Cha	iffield)	[TCLP / Full (w/ organics) 10				
A job received past † will begin its TAT th		Oil		☑ Wipe	Silic	a - FTIR (NIC	OSH 7602)	□			<u></u>	icrobiology	<u>tori eterre</u>		
next business day		Pain		Wipe, Composite	<u> </u>	a - XRD (NIC	- XRD (NIOSH 7500)		FOR ASBESTOS AIR:		BACT (MPN & P/A)				
Schedule rush organ		Slud		Micro-Vac Du		Other		TYPE OF RESPIRATOR		R [Mold Direct Exam				
advance.		□ _{Soil}	La constant		<u> </u>				USED:			Flow Rate ³ Tota			
Sample #		ate	Time Sampled**	Sample Id (Employee, SSN, I	dentification		Wiped Area (ft²)	pH / Temp *	Tir Start	ne ² Stop	Start	Rate ^a Stop	Total⁴ Air		
104F-P6A-1	100	-17-16			35	iai, Type /	Alea (IL)		9:00	1224	3.05	3.05	622.2		
-00	ر (۲		l l	1st - L	3/			·	914	1232	3.05	3.05	603.9		
-00	3			1st - P	Z9		:		925	1235	3.65	3.05	579.5		
-004	1			1st - 0	35				935	1240	3.05	3.05	564.7		
-009	5	₩.	,	2ndFl -	132				950	1245	3.05	3.05	533.		
-00	6			2nd - 1	130				956	1548	3.05	3.05	524		
-00	7			2-1 - M	135				1007	1254	3.05	3.05	509.		
-00	11.1.649			Bsmt -	032	•			1167	1448	3.05	3.05	674		
-60)9			 	133				///0	1452	3.05	3.05	677.		
-01	79. EV.	B-Block	D-D		Junne			11	///6	1458	3.05	3.05	677		
	All soil and a	queous sa	amples must be s	Excursion ² Beginning/En ent in adequate quantity for I lead to a disclaimer on the	duplicate anal	ysis to be perfo	med per EPA	requirements. F	allure to per	form a sample	e duplicate an	alysis,			
S	ampled t	у	,	Relinquis	hed to lab	by		٠ ــــــــــــــــــــــــــــــــــــ			Sample Disposal Return to Sender (Shipping fees)				
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Sample return	n request	ed □ A	mbient temp	Chair of Custody document	etation conti	RSZ	K K F			_	WB:	2	7		

SLG

SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com 20FZ

Submitting Co. OCCU-TEC Inc.					Lab WO#			Phone	946 7	30-5580	• •			
, , ,					Acct#			Fax / Email						
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Kansas City, MO 64	116				Collection	on Missouri Required L 198 X No								
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☐ Same day*†		matri	x type. Use add	ditional forms as needed.	PCM	(NIOSH 74	00)	☐ PLM		ķ.,	⊠ Lead			
☐ 1 business day* †		X Air		☐ Solid	□ ТЕМ	(AHERA)		PLM (Po	int Count)		RCRA M	etais		
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■ 3 business days* †		☐ Bulk	(Mi	scellaneous	Tests	■ NYELAP			TCLP/L	.ead		
5 business days* †		☐ HI-V	ol Filter (PM10)) 🔲 Water,Drinking	☐ Total	Dust (NIOS	H 0500)	CAELAP	(Point Co	unt)	TCLP / F	CRA Metal	s	
* Not available for all tes	ts	☐ Hi-V	oi Filter (TSP)	☐ Compliance	Resp	o. Dust (NIC	SH 0600)	☐ TEM (Ch	atfield)		TCLP / F	ull (w/ orga	nics) 10 day	
A job received past 3P	М	□ Oii		₩ Wipe	□ Silica	- FTIR (NIC	OSH 7602)	 _		<u> </u>	Microbiology			
† will begin its TAT the next business day		☐ Pair	nt	Wipe, Composite	☐ Silica	a - XRD (NIC	SH 7500)	FOR A	SBESTO	S AIR:	BACT (MPN & P/A)			
Schedule rush organics,		☐ Situa	•	Micro-Vac Dust	_	Other		TYPE OF RESPIRATOR			☐ Mold Direct Exam			
etals & weekend tes advance.	its in	☐ _{Soil}						USED:						
	11 may 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ate	Time	, ,	Identification Wiped		Wiped	pH/	,	ime ²		Rate ³	Total⁴	
Sample #	Sam	pled"	Sampled**	(Employee, SSN, Blo			Area (ft²)	Temp *	Start	Stop	Start	Stop	Air	
P6A-011	2-1	7-16		Bomt-lunn	e1-1	Jorth			1133	1455	3.05	3.05	616,1	
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All so	oil and ac	queous sa	mples must be se	xcursion ² Beginning/End on the in adequate quantity for du	plicate analys	sis to be perfo	med per EPA i	equirements.	allure to pe	nform a samp	ie duplicate an	alysis,		
			nple quantity, will	lead to a disclaimer on the re			out customer re	spanse held ov	er 30 days	will be voided		of. mple Disp	neal	
Sam	pled b	y ,)		Relinquishe		ру	1	2	2/			to Sender		
y Jeff	$\mathcal{L}_{\mathcal{L}}$	At	<u> </u>	NAME	>~.T		2		. .	0	Dispos			
ture (b) (6)		s	SIGNATURE (b) (6)			7	b) (6)			<u> </u>	pping Met		
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☐ Sample return re						R S	<u></u>				- WB:_	<u> </u>	a_{-}	
* Temperature taken with	IR Gun A	4. **Red	quired. (Chain-of-Custody documentat	tion continued	l internally with	in tab.Terms						2	



1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 26, 2016

Attention:

Jay Hurst

OCCU-TEC, Inc.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2236OCCA

Goodfellow-104F Project

OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 23, 2016. These samples represent the TEM samples for the Goodfellow-104F Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eleven (11) samples are summarized in Tables I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

> Sincerely, (b) (6)

> > S. Dewayne Lear, B.S. TEM Laboratory Director



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow-104F Project - OCC# 916029

McCall and Spero Project No: MSE-2236OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I01	104F-AA-01	NSD	NA	1642.20	0.0042	BDL (0.0042)*	BDL (17.7)*
102	104F-AA-02	NSD	NA	1593.90	0.0043	BDL (0.0043)*	BDL (17.7)*
I03	104F-AA-03	NSD	NA	1529.50	0.0045	BDL (0.0045)*	BDL (17.7)*
I04	104F-AA-04	NSD	NA	1452.60	0.0047	BDL (0.0047)*	BDL (17.7)*
105	104F-AA-05	NSD	NA	1416.80	0.0048	BDL (0.0048)*	BDL (17.7)*
106	104F-AA-06	NSD	NA	1400.70	0.0049	BDL (0.0049)*	BDL (17.7)*
107	104F-AA-07	NSD	NA	1336.30	0.0051	BDL (0.0051)*	BDL (17.7)*
108	104F-AA-08	NSD	NA	1787.10	0.0038	BDL (0.0038)*	BDL (17.7)*
109	104F-AA-09	NSD	NA	1787.10	0.0038	BDL (0.0038)*	BDL (17.7)*
I10	104F-AA-10	NSD	NA	1787.10	0.0038	BDL (0.0038)*	BDL (17.7)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 6 Area Analyzed Per Sample: 0.0564mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable

BDL = Below Detectable Limit CH = Chrysotile

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director: McCall and Spero Environmental, Inc.

s/mm² - asbestos structures per square millimeter

^{*} Single fiber detection limits are used when no structures are detected.

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow-104F Project - OCC# 916029

McCall and Spero Project No: MSE-2236OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I11	104F-AA-11	NSD	NA	1626.10	0.0042	BDL (0.0042)*	BDL (17.7)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 6 Area Analyzed Per Sample: 0.0564mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

NSD=No Structures Detected M=Matrix C=Cluster B=Bundle F=Fiber A = AmositeBDL = Below Detectable Limit CH = Chrysotile NA = Not Applicable EDS-Energy Dispersive Spectrometry SAED=Selected Area Electron Diffraction

s/mm² - asbestos structures per square millimeter s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

Date: _ 2 | 26 | 16 TEM Laboratory Director:

^{*} Single fiber detection limits are used when no structures are detected.



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TEM AHERA CHAIN OF CUSTODY FORM

				···					
Company: OCCU-TEC INC.	Telephone #: 816-231-5580 Fax #: 816-994-3470								
Contact: Jay Hurst	Client Project Number: 916029								
Relinquished by: Jeff S., H	Date: 2-17-10 Time: 1800								
Written Report To: jayhurst@occutec.com; jsmith@	occutec.	com							
Project Name: Goodfellow - 104 F									
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour(same day)	24 Hour	2(-3) Day	4-5 Day We	ekend Rush Af	ter Hour Rush				
MSE Project #: MSE- 22 21000CA Comments	<u>. </u>								
Samples Received by: (b) (6)	Date: (12/13	114	Time: /03	ODAN				
Sample To Be Analyzed by: TEM AHERA / EFA 40CFR Pa		1	/						
Samples Prepared By:		Burdett	& Rood		•				
Samples Analyzed By:	Date:								
		·							
Client ID Sample Location / Type	Start	Stop		· · · · · · · · · · · · · · · · · · ·					
Client ID Sample Location / Type Number (I)inside(O)outside(B)blank (P)personal(A)ambient	Time	Time	Total Time	x Liters/Minute	e = Volume				
104 F- AA-01 1st F1 - P35	9:00	1224	204	8.05	1642.2				
-AA-02 stF/ - L31	9:14	1232	198	8.05	1593.9				
-AA-03 /stF1 - P29	924	1235	190	8.05	1529.5				
-AA-04 /stF1 - 035	934	1240	186	7.81	1452.6				
-AA-05 2nd F1 - L32	949	1245	176	8.05	1416.8				
-AA-06 2nd F1 - M30	954	1248	174	8.05	1400.7				
-AA-07 2nd F1 -M35	1006	1252	166	8.05	1336.3				
-AA-08 Bsmt - 032	1106	1448	222	8,05	1787.1				
-AA-09 BSmt - L33	1110	1452	222	8.05	1787.1				
-AA-10 Bsmt - South June1	1116	1458	222	8.05	1787.1				
-AA-11 Bsmt - North Turnel	1/33	1455	202	8.05	1626.1				
-AA-12 Blank									
Results Transmitted/Date:	Г	c/Phone B	\ 						

BUILDING 105, 105E, 105F, 105L

BUILDING 105						
	Asbestos TEM Air Samples					
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level		
105-AA-001	1st Floor Column H-53	<15.2	s/mm ²	70 s/mm ²		
105-AA-002	1st Floor Column C-49	<15.2	s/mm ²	70 s/mm ²		
105-AA-003	1st Floor Column C-45	<15.2	s/mm ²	70 s/mm ²		
105-AA-004	1st Floor Column G-49	<15.2	s/mm ²	70 s/mm ²		
105-AA-005	1st Floor Column J-35	<15.2	s/mm ²	70 s/mm ²		
105-AA-006	1st Floor Column G-38	<15.2	s/mm ²	70 s/mm ²		
105-AA-007	1st Floor Column E-33	<15.2	s/mm ²	70 s/mm ²		
105-AA-008	1st Floor Column B-32	<15.2	s/mm ²	70 s/mm ²		
105-AA-009	1st Floor Column F-25	<15.2	s/mm ²	70 s/mm ²		
105-AA-010	Penthouse Air Handler #2	<15.2	s/mm ²	70 s/mm ²		
105-AA-011	Penthouse Center West	<15.2	s/mm ²	70 s/mm ²		
105-AA-012	Penthouse South	<15.2	s/mm ²	70 s/mm ²		
105-AA-013	Penthouse Chiller Room	<15.2	s/mm ²	70 s/mm ²		
105-AA-014	Penthouse Boiler Room	<15.2	s/mm ²	70 s/mm ²		
105-AA-015	1st Floor Column G-26	<15.2	s/mm ²	70 s/mm ²		
105-AA-016	1st Floor Column H-20	<15.2	s/mm ²	70 s/mm ²		
105-AA-017	1st Floor Column C-17	<15.2	s/mm ²	70 s/mm ²		
105-AA-018	1st Floor Column F-15	<15.2	s/mm ²	70 s/mm ²		
105-AA-019	1st Floor Column G-10	<15.2	s/mm ²	70 s/mm ²		
105-AA-020	1st Floor Column F-1.5	<15.2	s/mm ²	70 s/mm ²		
105-AA-021	1st Floor Column B-8	<15.2	s/mm ²	70 s/mm ²		
105-AA-022	1st Floor Column C-13	<15.2	s/mm ²	70 s/mm ²		
105-AA-023	2nd Floor Column G-39	<15.2	s/mm ²	70 s/mm ²		
105-AA-024	2nd Floor Column D-4	<15.2	s/mm ²	70 s/mm ²		
105-AA-025	2nd Floor Column B-12	<15.2	s/mm ²	70 s/mm ²		
105-AA-026	2nd Floor Column F-13.5	<15.2	s/mm ²	70 s/mm ²		
105-AA-027	2nd Floor Column G-15.5	<15.2	s/mm ²	70 s/mm ²		
105-AA-028	2nd Floor Column J-23.5	<15.2	s/mm ²	70 s/mm ²		
105-AA-029	2nd Floor Column G-26	<15.2	s/mm ²	70 s/mm ²		
105-AA-030	2nd Floor Column B-28	<15.2	s/mm ²	70 s/mm ²		
105-AA-031	2nd Floor Column B-39	<15.2	s/mm ²	70 s/mm ²		
105-AA-032	2nd Floor Column J-39	<15.2	s/mm ²	70 s/mm ²		
105-AA-033	2nd Floor Column F-34	<15.2	s/mm ²	70 s/mm ²		
105-AA-034	2nd Floor Column D-32	<15.2	s/mm ²	70 s/mm ²		
105-AA-035	2nd Floor Column F-52	<15.2	s/mm ²	70 s/mm ²		
105-AA-036	2nd Floor Column H-49	<15.2	s/mm ²	70 s/mm ²		
105-AA-037	2nd Floor Column E-42.5	<15.2	s/mm ²	70 s/mm ²		
105-AA-038	2nd Floor Column C-43	<15.2	s/mm ²	70 s/mm ²		
105-AA-039	Basement Center West	<15.2	s/mm ²	70 s/mm ²		
105-AA-040	Basement Center East	<15.2	s/mm ²	70 s/mm ²		
105-AA-041	Basement 2 South West	<15.2	s/mm ²	70 s/mm ²		
105-AA-042	Basement 2 Center West	15.2	s/mm ²	70 s/mm ²		
105-AA-043	Basement 2 Center East	<15.2	s/mm ²	70 s/mm ²		
105-AA-044	Basement 4 Column B-41	<15.2	s/mm ²	70 s/mm ²		
105-AA-045	Blank		Not Analyzed	<u> </u>		

BUILDING 105					
	Lead Air S	Samples			
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level	
105-PbA-001	1st Floor Column H-53	<3.31	μg/m ³	30 μg/m ³	
105-PbA-002	1st Floor Column C-49	<3.31	μg/m ³	30 μg/m ³	
105-PbA-003	1st Floor Column C-45	<3.31	$\mu g/m^3$	30 μg/m ³	
105-PbA-004	1st Floor Column G-49	<3.31	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-005	1st Floor Column J-35	<3.31	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-006	1st Floor Column G-38	<3.31	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-007	1st Floor Column E-33	<3.31	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-008	1st Floor Column B-32	<3.31	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-009	1st Floor Column F-25	<3.31	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-010	Penthouse Air Handler #2	<2.84	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-011	Penthouse Center West	<2.86	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-012	Penthouse South	<3.31	μg/m ³	$30 \mu\text{g/m}^3$	
105-PbA-013	Penthouse Chiller Room	<3.9	μg/m ³	$30 \mu\text{g/m}^3$	
105-PbA-014	Penthouse Boiler Room	<3.31	μg/m ³	$30 \mu\text{g/m}^3$	
105-PbA-015	1st Floor Column G-26	<3.31	μg/m ³	$30 \mu\text{g/m}^3$	
105-PbA-016	1st Floor Column H-20	<3.31	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-017	1st Floor Column C-17	<3.0	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-018	1st Floor Column F-15	<3.58	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-019	1st Floor Column G-10	<3.31	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-020	1st Floor Column F-1.5	<3.0	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-021	1st Floor Column B-8	<2.95	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-022	1st Floor Column C-13	<2.95	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-023	2nd Floor Column G-39	<3.03	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-024	2nd Floor Column D-4	<3.10	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-025	2nd Floor Column B-12	<3.14	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-026	2nd Floor Column F-13.5	<3.15	$\mu g/m^3$	30 μg/m ³	
105-PbA-027	2nd Floor Column G-15.5	<3.23	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-028	2nd Floor Column J-23.5	<3.29	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-029	2nd Floor Column G-26	<3.31	$\mu g/m^3$	30 μg/m ³	
105-PbA-030	2nd Floor Column B-28	<3.31	$\mu g/m^3$	$30 \mu\text{g/m}^3$	
105-PbA-031	2nd Floor Column B-39	<3.31	$\mu g/m^3$	30 μg/m ³	
105-PbA-032	2nd Floor Column J-39	<3.31	$\mu g/m^3$	30 μg/m ³	
105-PbA-033	2nd Floor Column F-34	<3.31	$\mu g/m^3$	30 μg/m ³	
105-PbA-034	2nd Floor Column D-32	<3.31	μg/m ³	$30 \mu \text{g/m}^3$	
105-PbA-035	2nd Floor Column F-52	<3.31	μg/m ³	$30 \mu \text{g/m}^3$	
105-PbA-036	2nd Floor Column H-49	<3.27	μg/m ³	$30 \mu \text{g/m}^3$	
105-PbA-037	2nd Floor Column E-42.5	<3.29	μg/m ³	$30 \mu \text{g/m}^3$	
105-PbA-038	2nd Floor Column C-43	<3.12	μg/m ³	$30 \mu \text{g/m}^3$	
105-PbA-039	Basement Center West	<2.21	μg/m ³	$30 \mu\text{g/m}^3$	
105-PbA-040	Basement Center East	<2.26	μg/m ³	$30 \mu \text{g/m}^3$	
105-PbA-041	Basement 2 South West	<2.46	μg/m ³	$30 \mu\text{g/m}^3$	
105-PbA-042	Basement 2 Center West	<2.50	μg/m ³	30 μg/m ³	
105-PbA-043	Basement 2 Center East	<2.46	μg/m ³	$30 \mu g/m^3$	
105-PbA-044	Basement 4 Column B-41	<2.62	μg/m³	30 μg/m ³	
105-PbA-045	Blank	<2.0	μg	30 μg/m ³	

BUILDING 105								
	Lead Surface Dust Wipe Samples							
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level				
105-PbW-001	1st Floor Column H-52 Floor Tile	<10	μg/ft ²	200 μg/ft ²				
105-PbW-002	1st Floor Column D-45 Top of Battery Terminal	2260	μg/ft ²	200 μg/ft ²				
105-PbW-003	Penthouse Center West Top of Air Handler	223	μg/ft ²	200 μg/ft ²				
105-PbW-004	Penthouse South Yellow I-Beam on West Side	79	μg/ft ²	200 μg/ft ²				
105-PbW-005	Penthouse Chiller Floor Near Enterance	45.8	μg/ft ²	200 μg/ft ²				
105-PbW-006	1st Floor Column H-2 Desk Top	<10	μg/ft ²	200 μg/ft ²				
105-PbW-007	105-PbW-007 1st Floor Column C-17 Top of File Cabinet		μg/ft ²	200 μg/ft ²				
105-PbW-008	105-PbW-008 1st Floor Column F-3 Stair Tread		μg/ft ²	200 μg/ft ²				
105-PbW-009	105-PbW-009 Basement South West Stairwell Lower Hand Rail		μg/ft ²	200 μg/ft ²				
105-PbW-010	Basement Column E-43.5 Handrail	86	μg/ft ²	200 μg/ft ²				
105-PbW-011	Basement Column E-46 Metal Ladder Rung	104	μg/ft ²	200 μg/ft ²				
105-PbW-012	1st Floor Column J-41 Window Sill	44	μg/ft ²	200 μg/ft ²				
105-PbW-013	2nd Floor Column H-2 Top of Light	1020	μg/ft ²	200 μg/ft ²				
105-PbW-014	2nd Floor Column J-10 Top of Fridge	<10	μg/ft ²	200 μg/ft ²				
105-PbW-015	2nd Floor Column J-21 Window Sill	<10	μg/ft ²	200 μg/ft ²				
105-PbW-016	2nd Floor Column A-30 Top of Cabinet	<10	μg/ft ²	200 μg/ft ²				
105-PbW-017	2nd Floor Column J-38 Floor Tread on Ramp	<10	μg/ft ²	200 μg/ft ²				
105-PbW-018	2nd Floor Column J-44 Floor Tile	<10	μg/ft ²	200 μg/ft ²				
105-PbW-019	Blank	<10	μg	200 μg/ft ²				

BUILDING 105							
	Lead Surface Dust Micro-vac Samples						
Sample #	Location	Location Result Unit of Measure		GSA Selected Target Level			
105-PbV-001	1st Floor Column H-54 Carpet	<92.9	μg/ft ²	200 μg/ft ²			
105-PbV-002	1st Floor Column H-2 Below Desk	<92.9	μg/ft ²	200 μg/ft ²			
105-PbV-003	South East Basement Stairwell Concrete Stair Tread	311	μg/ft ²	200 μg/ft ²			
105-PbV-004	Basement Column F-45 Wood Stair	3290	μg/ft ²	200 μg/ft ²			
105-PbV-005	Basement Column C-42 Concrete Pier Foot	<92.9	μg/ft ²	200 μg/ft ²			
105-PbV-006	Basement Column E-45 Concrete Pier Foot	<92.9	μg/ft ²	200 μg/ft ²			
105-PbV-007	Basement Column F-47 Concrete Ledge at Edge	490	μg/ft ²	200 μg/ft ²			
105-PbV-008	Basement Column E-48 Concrete Ledge at Edge	539	μg/ft ²	200 μg/ft ²			
105-PbV-009	Basement Column G-46 Concrete Floor	181	μg/ft ²	200 μg/ft ²			
105-PbV-010	Basement Column B-45 Concrete Floor	1550	μg/ft ²	200 μg/ft ²			
105-PbV-011	105-PbV-011 2nd Floor Column C-43 Top of Dry Transformer 105-PbV-012 1st Floor Column F-35 Top of Ceiling Tile		μg/ft ²	200 μg/ft ²			
105-PbV-012			μg/ft ²	200 μg/ft ²			
105-PbV-013	Blank	<92.9	μg/ft ²	200 μg/ft ²			
105-PbV-014	1st Floor Column B-20 Concrete Floor in Switch Room	<92.9	μg/ft ²	200 μg/ft ²			
105-PbV-015	1st Floor Column B-17 Freight Elevator Floor	<92.9	μg/ft ²	200 μg/ft ²			
105-PbV-016	1st Floor Column J-12 Carpet in Nursing Room	<92.9	μg/ft ²	200 μg/ft ²			
105-PbV-017	1st Floor Column G-5 Top of Ceiling Tile	<92.9	μg/ft ²	200 μg/ft ²			
105-PbV-018	2nd Floor Column H-2 Carpet	<92.9	μg/ft ²	200 μg/ft ²			
105-PbV-019	2nd Floor Column G-13 Top of Ceiling Tile	<92.9	μg/ft ²	200 μg/ft ²			
105-PbV-020	2nd Floor Column B-21 Top of Cabinet	<92.9	μg/ft ²	200 μg/ft ²			
105-PbV-021	2nd Floor Column B-31 Mechanical Room Air Duct	<92.9	μg/ft²	200 μg/ft ²			
105-PbV-022	2nd Floor Column J-40 Top of Ceiling Tile	<92.9	μg/ft ²	200 μg/ft ²			
105-PbV-023	2nd Floor Southwest Stair I-Beam	<92.9	μg/ft ²	200 μg/ft ²			
105-PbV-024	2nd Floor Southwest Stair Window Sill	246	μg/ft ²	200 μg/ft ²			



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH	
GOODFELLOW MO0612 (105) - PENTHOUSE	SUB. DATE: 03/04/16	
CLIENT NAME:		
GENERAL SERVICES ADMINISTRATION		
02.12.0 12 02.11 (1020) 15 (11) 110 110 (11011	SCALE: NTS	
PROJECT NAME:	SUALE. NIS	

916029



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE

PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH
	SUB. DATE: 03/04/16
CLIENT NAME:	
GENERAL SERVICES ADMINISTRATION	
021121012 021111020 71211111110110111011	SCALE: NTS
DDO JECT NAME:	SCALE. NIS

916029

GOODFELLOW GS-P-16-16-GZ7025

(b) (7)(F)

SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE

PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



	DRAWN by: JWH
GOODFELLOW MO0612 (105) - 2nd FLOOR	SUB. DATE: 03/04/16
GENERAL SERVICES ADMINISTRATION	

GENERAL SERVICES ADMINISTRATION

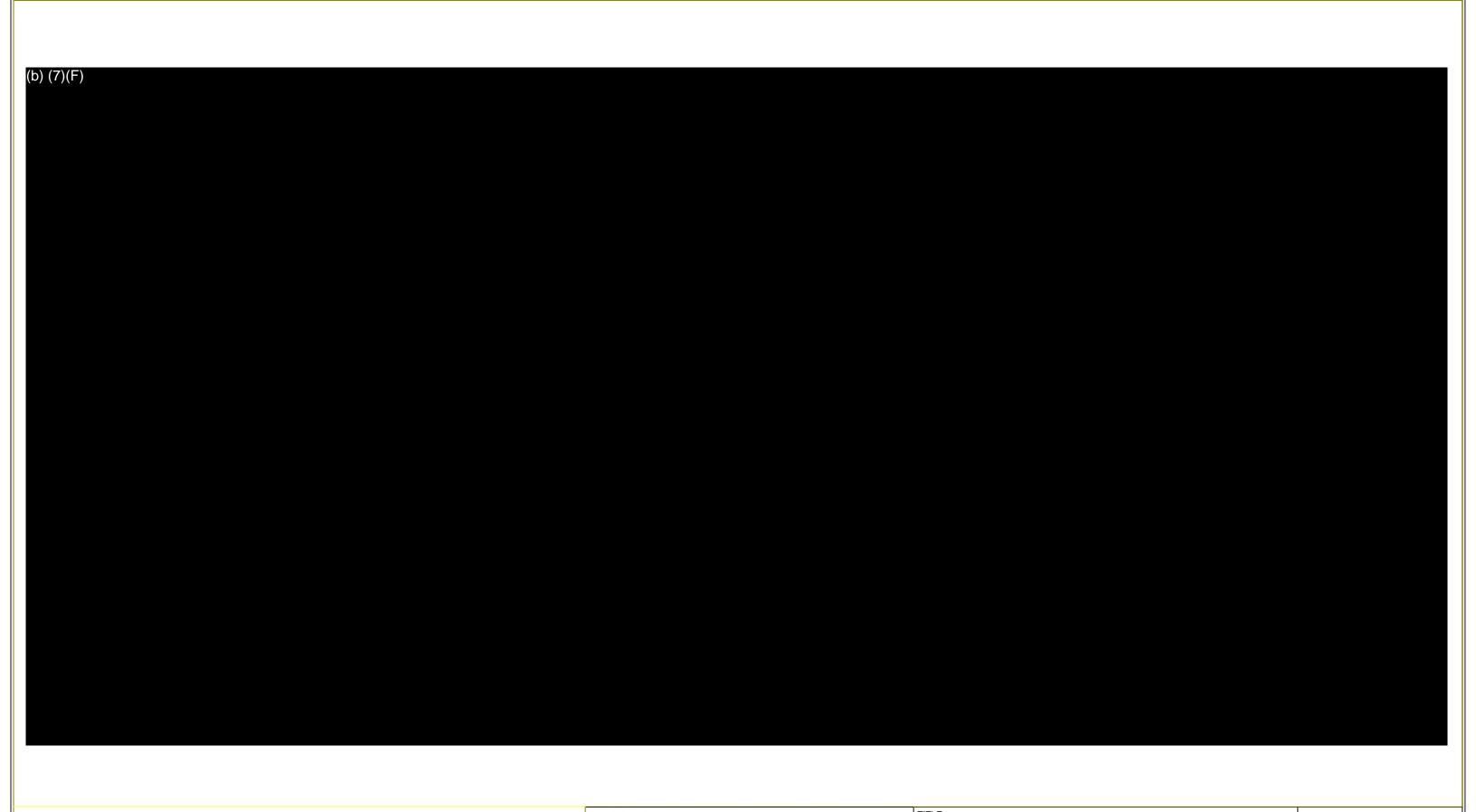
GOODFELLOW GS-P-16-16-GZ7025

SCALE: NTS 916029



BUILDING 105E							
	Asbestos TEM Air Samples						
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level			
105E-AA-001	2nd Floor Column M-51.5	<15.2	s/mm ²	70 s/mm ²			
105E-AA-002	2nd Floor Column O-47	<15.2	s/mm ²	70 s/mm ²			
105E-AA-003	2nd Floor Column M-O-42.5	<15.2	s/mm ²	70 s/mm ²			
105E-AA-004	1st Floor Column M-43.5	<15.2	s/mm ²	70 s/mm ²			
105E-AA-005	1st Floor Column P-46	<15.2	s/mm ²	70 s/mm ²			
105E-AA-006	1st Floor Column O-52	<15.2	s/mm ²	70 s/mm ²			
105E-AA-007	1st Floor Loading Dock	<15.2	s/mm²	70 s/mm ²			
105E-AA-008	Basement West Column L47	<15.2	s/mm²	70 s/mm ²			
105E-AA-009	Basement East Column O48	<15.2	s/mm ²	70 s/mm ²			
105E-AA-010	Basement South	<15.2	s/mm ²	70 s/mm ²			
105E-AA-011	Blank	<15.2	s/mm ²	70 s/mm ²			
	Lead Air S	Samples					
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level			
105E-PbA-001	2nd Floor Column M-51.5	<3.31	μg/m³	$30 \mu g/m^3$			
105E-PbA-002	2nd Floor Column O-47	<3.31	μg/m³	30 μg/m ³			
105E-PbA-003	2nd Floor Column M-O-42.5	<3.31	μg/m³	30 μg/m ³			
105E-PbA-004	1st Floor Column M-43.5	<3.31	μg/m³	30 μg/m ³			
105E-PbA-005	1st Floor Column P-46	<3.31	μg/m³	30 μg/m ³			
105E-PbA-006	1st Floor Column O-52	<3.31	μg/m³	30 μg/m ³			
105E-PbA-007	1st Floor Loading Dock	<3.31	μg/m³	$30 \mu g/m^3$			
105E-PbA-008	Basement West	<3.07	μg/m³	30 μg/m ³			
105E-PbA-009	Basement East	<3.07	μg/m³	30 μg/m ³			
105E-PbA-010	Basement South	<3.07	μg/m³	30 μg/m ³			
105E-PbA-011	Blank	<2.00	μg	30 μg/m ³			

	BUILDING 1	05E					
Lead Surface Dust Wipe Samples							
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level			
105E-PbW-001	1st Floor Column M-43 Heater Shelf	<10	μg/ft²	200 μg/ft ²			
105E-PbW-002	1st Floor Column L-47.5 Concrete Floor	6840	μg/ft²	200 μg/ft ²			
105E-PbW-003	1st Floor Column M-52 Floor - Floor Tile	<10	μg/ft²	200 μg/ft ²			
105E-PbW-004	2nd Floor Column L-52 Window Sill	<10	μg/ft ²	200 μg/ft ²			
105E-PbW-005	2nd Floor Column M-48.5 Desk	<10	μg/ft²	200 μg/ft ²			
105E-PbW-006	2nd Floor Column M-46.5 Shelf	<10	μg/ft²	200 μg/ft ²			
105E-PbW-007	Blank	<10	μg	200 μg/ft ²			
	Lead Surface Dust Micro	o-vac Samples					
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level			
105E-PbV-001	Basement Northeast Concrete Floor	<92.9	μg/ft²	200 μg/ft ²			
105E-PbV-002	Basement Northwest Concrete Wall Ledge	<92.9	μg/ft²	200 μg/ft ²			
105E-PbV-003	Basement West Concrete Tunnel Stair	93.3	μg/ft²	200 μg/ft ²			
105E-PbV-004	1st Floor Column M-43 Top of Equipment	<92.9	μg/ft²	200 μg/ft ²			
105E-PbV-005	1st Floor Column L-46 Floor	<92.9	μg/ft²	200 μg/ft ²			
105E-PbV-006	1st Floor Column M-52.5 Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²			
105E-PbV-007	2nd Floor Column M-48.5 Carpet	<92.9	μg/ft²	200 μg/ft ²			
105E-PbV-008	2nd Floor Column M-44 Concrete Floor	<92.9	μg/ft²	200 μg/ft ²			
105E-PbV-009	2nd Floor Column M-42.5 Top of Water Fountain	<92.9	μg/ft²	200 μg/ft ²			
105E-PbV-010	Blank	<10	μg	200 μg/ft ²			



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE

PbW = LEAD WIPE SAMPLE

PbV = LEAD MICRO-VAC SAMPLE



GOODFELLOW MO0613 (105E) - Basement
CLIENT NAME:

SUB. DATE: 03/04/16

GENERAL SERVICES ADMINISTRATION

PROJECT NAME:

GOODFELLOW GS-P-16-16-GZ7025

DRAWN by: JWH

SCALE: NTS

916029



AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE

PbW = LEAD WIPE SAMPLE

PbV = LEAD MICRO-VAC SAMPLE



GOODFELLOW MO0613 (105E) - 2nd FLOOR
CLIENT NAME:

SUB. DATE: 03/04/16

GENERAL SERVICES ADMINISTRATION

PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025 SCALE: NTS 916029





Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

CustomerOCCU-TEC, INC. (3505)Address4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159451

 Matrix
 Wipe

 Received
 02/22/16

 Analyzed
 02/22/16

 Reported
 02/23/16

Project Goodfellow 105E
Location St Louis, MO
Number 916029

Hallibol						
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159451-001	105E-PbW-001	M43 1st FI Heater Shelf	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159451-002	105E-PbW-002	L47.5 1st FI Concrete FI	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	6840 μg/wipe	6840 μg/ft2	250 μg/ft2
159451-003	105E-PbW-003	M52 1st FI FI Tile	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159451-004	105E-PbW-004	L52 2nd FI Window Sill	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159451-005	105E-PbW-005	M48.5 2nd Fl Desk	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159451-006	105E-PbW-006	M46.5 2nd Fl Shelf	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159451-007	105E-PbW-007	Wipe Blank	02/18/16			
Lead		EPA 7000B / 3050B		<10.0 µg/wipe		10.0 μg/wipe

Analyst IH 159451-02/23/16 09:59 AM (b) (6)

Reviewed By **Abisola Kasali**Metals Supervisor



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com



V:\159\159451

Submitting Co.	occu-	TEC Inc.			Lab WO#			Phone	816-230	-5580	-		$\overline{}$
4151 N. Mulberry	Drive,	Suite 275	;	-	Acct#	3505		Fax / Email	816-994	-3470 /	avhurst@oc	cutec.com	
Kansas City, MO					**State of Collection		1	**Cert. Required	Г		⊠ No		
Project Name: C	Good	fellow	165 F	-			ial Instructio	ns [include re	quests fo	r special	reporting or	data packa	jes]
Project Location:	St. Lo	uis, MO			-	,							
Project Number: 9	1602	9											
PO Number:											·· · · · · · · · · · · · · · · · · · ·		
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Same day* †		matri	ctype. Use add	ditional forms as needed.	PCM	(NIOSH 740	00)	☐ PLM			⊠ Lead		
1 business day	t ·	⊠ Air		Solid	☐ TEM	(AHERA)		PLM (Poin	t Count)		RCRA M	etals	
2 business days*	• †	☐ Aqu	eous	Waste Waste	TEM	(EPA Level	II)	PLM (Qua	itative only	y)		TCLP	
🔀 3 business days	• †	Bulk			Mi	scellaneous	Tests	☐ NYELAP			TCLP / L	ead	
5 business days	* †	☐ Hi-V	of Filter (PM10)	Water, Drinking	☐ Tota	Dust (NIOS	H 0500)	CAELAP (Point Cou	nt)	☐ TCLP / R	CRA Metals	
* Not available for all t	tests	☐ Hi-V	ol Filter (TSP)	Compliance	Resp	Dust (NIO	SH 0600)	☐ TEM (Cha	field)		TCLP / F	ull (w/ organ	iCS) 10 day
A job received past		Oil		⊠ Wipe	☐ Silica	- FTIR (NIC	OSH 7602)				М	icrobiology	
† will begin its TAT the next business day	e	Pair	nt	☐ Wipe, Composite	Silica	- XRD (NIC	SH 7500)	FOR AS	BESTOS	AIR:	BACT (M	PN & P/A)	
Schedule rush organi		i- 🗆 Sluc	lge	Micro-Vac Dust	_	Other		TYPE OF RE	SPIRATO	R	Mold Dire	ect Exam	
etals & weekend advance.	tests in	□ Soil		<u> </u>	_ 🗖			-USED:			口		<u> </u>
		Date	Time	Sample ide	ntification		Wiped	pH/	Tir	ne²	Flow	Rate ³	Total ⁴
Sample #	S	ampled**	Sampled**	(Employee, SSN, Blo			Area (ft²)	Temp *	Start	Stop	Start	Stop	Air
105E- Pbw-co	ol 7	2/18	0919	MY3 1st Flux	or hea	to Shelf	1						
105E-Pbw-00	2		0928	247.5 15t Floo	r Conc	rete floor	- (
105E-P6W-00	3		0932	MSZ 1st Floor	Flu	or tile	١		_				
105 E-Pbw-00	24		0940	152 2nd Floor	Vida	w 5.11	1		_			-	
105 E - P6W-00	S		0942	2nd M48.5 Floor	Dest	4	1						
icse-Pbw-00	6		0950	M46.5 2 ad E	loer	shlf	1	,					
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- 1y	di coit a	a superine he	amoles must he s	ent in adequate quantity for di	inlicate anali	usis to be perfo	med per EPA	requirements. F	ailure to pe	rform a san	nple duplicate ai	nalysis,	
			imple quantity, wi	l lead to a disclaimer on the re			out customer n	esponse held ove	- 30 days v	viii de volae		or. ample Disp	osal
N Just	ample	And		Relinquishe NAME <u>kuru H</u>	^			2-2	2-	16	Dispo	n to Sender	
ture (b) (6)			SIGNATURE (b) (6)			-					e for excessive v nipping Me	
DATE / TIME	7-	8-14			£ , /(000		(b) (6)				UPS D OB	_
Sample return			mbient temp	Chain-of-Custody documenta		S S		_			WB:	612	2



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159449

 Matrix
 Wipe

 Received
 02/22/16

 Analyzed
 02/23/16

 Reported
 02/23/16

Project Goodfellow 105E
Location St Louis, MO
Number 916029

Number	916029					
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159449-001	105E-PbV-001	Basement NE C FI	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159449-002	105E-PbV-002	Basement NW C Wall Ledg	e 02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159449-003	105E-PbV-003	Basement W C Stair	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	10.0 μg/wipe	93.3 μg/ft2	92.9 μg/ft2
159449-004	105E-PbV-004	M43 1st Fl Top	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159449-005	105E-PbV-005	L46 1st FI FI	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159449-006	105E-PbV-006	M52.5 1st FI CT	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159449-007	105E-PbV-007	M48.5 2nd Fl Carpet	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159449-008	105E-PbV-008	M44 2nd FI C FI	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159449-009	105E-PbV-009	M47.5 2nd Fl Top	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159449-010	105E-PbV-010	Blank	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 μg/wipe

Minimum Total Reporting Limit: 10.0 μ g/wipe. EPA Clearance Std: 40 μ g/ft² for floors, 250 μ g/ft² for interior window sills, and 400 μ g/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Schneider Laboratories Global, Inc

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Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159449

Matrix Wipe

 Received
 02/22/16

 Analyzed
 02/23/16

 Reported
 02/23/16

Project Goodfellow 105E
Location St Louis, MO
Number 916029

Sample ID Cust. Sample ID Location Sample Date

Parameter Method Area Total Conc. RL*

Analyst OHE

159449-02/23/16 01:24 PM

(b) (6)

Reviewed By **Abisola Kasali**Metals Supervisor

Minimum Total Reporting Limit: 10.0 μ g/wipe. EPA Clearance Std: 40 μ g/ft² for floors, 250 μ g/ft² for interior window sills, and 400 μ g/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

159449

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com

V:\159\159449

						O							
Submitting Co.	OCCU-TE	C Inc.			Lab WO#			Phone	816-23	J-5580			
4151 N. Mulberry	Drive. S	uite 275	i		Acct#	3505		Fax / Email	846.00	1-3470	jayhurst@oc	outee com	
Kansas City, MO					**State of Collection			**Cert. Require			X No	CHIBO.COM	
Project Name:	Goodfe	llow	1051				ial Instructio	ns (include r	equests fo	or specia	i reporting or	data packa	ges]
Project Location:	St. Lou	is. MO					· · · · · · · · · · · · · · · · · · ·	,					
Project Number:													
PO Number:													
Turn Around Tim	e (TAT)	,	fatrix / Sample	Type (Select ONE)			Te	sts / Analytes	(Select A	LL that	Apply)		
2 hours*				m should be of SAME		Asbestos ir		-	stos in Bu		· ·	etals-Total	
☐ Same day• †		matri:	x type. Use ad	ditional forms as needed.		(NIOSH 74		☐ PLM			⊠ Lead		
1 business day	t	⊠ Air		☐ Solid	☐ TEM	(AHERA)		☐ PLM (Poi	nt Count)		RCRA M	etals	
2 business days		Aqu	eous	 ☐ Waste	TEM	(EPA Level	II)	PLM (Qua	_	y)		TCLP	
☐ 3 business days	,	☐ Bulk	(☐ Wastewater	Mi	scellaneous	Tosts	☐ NYELAP			☐ TCLP/L		
5 business days	•	Π Hi-V	ol Filter (PM10) Water, Drinking		Dust (NIOS		CAELAP	(Point Cou	nt)	TCLP/R	CRA Metals	
* Not available for all		I—	ol Filter (TSP)	☐ Compliance		D. Dust (NIC	-	TEM (Cha	-	•	TCLP / F	uli (w/ organ	iCS) 10 day
A job received past	зрм	Oil	,	☑ Wipe		a - FTIR (NIC			,				
† will begin its TAT th next business day		Pair		☐ Wipe, Composite	!—	a - XRD (NIC	,		BESTOS	· AID·	BACT (N	icrobiology	
Schedule rush organ	iaa musti	Sluc		Micro-Vac Dust	\vdash		73H 73UU)				1		
ntals & weekend		□ Soil	-			Other		USED:	ESPIRATOR				
J		ate	Time	Sample Ide	ntification		Wiped	pH/	Ti	me ²	Flow	Rate ³	Total ⁴
Sample #	San	pled**	Sampled**	(Employee, SSN, Blo			Area (ft²)	Temp *	Start	Stop	Start	Stop	Air
1042-P6U-00	2/	18	0905	Basement NE	C. F	loor	100cm2]	0966				
105E-P6U-00	2		0410	Basment NW	6. W	all Lode	100m2		01				
10se - 760-00	3		0912	Rosement W	6.5.	tair	100 A						
105E-PHJ-00	1		0922	M43 156	Floo	- Top of	LOUCH	٤.					
106E-680-00	5		0930	246 151	Flo	or Fla	1 com						
luse -P60-00	6		0934	MS2.5 15	+ Flo								
105E-PUV-00	7	<u> </u>	0953	M48.5 2	nd Fla	or Ct oc Cay	ivo cm	_					
106E-PbV-008			0955	M44 2 nd Flo		Floor	100 cm						
1058-1760-00	9		0058	M47.5 2 nd F	our To	af WF	1 .	Ł	_				
105E-P6V-010		<u> </u>	-	Blank			_	-		_		_	~
				Excursion ² Beginning/End of ent in adequate quantity for de									
	due to a	lack of sa	mple quantity, wil	l lead to a disclaimer on the re	port. All pro	blem jobs with	out customer re	sponse held ov	er 30 days v	vill be void	ed and disposed	of.	
N Just	impled ! i∕.	٠. ١		Relinquisho	^	by	2	,-2.	200	6	☐ Retur	ample Disp on to Sender osal by lab e for excessive w	(Shipping fees)
SIGNATURE (b) (6)					(b) (6)				nipping Met	hods			
DATE / TIME 2-18-14 DATE / TIME 2-1				<u>. 00</u>					HD HD		_ 03M		
☐ Sample return requested ☐ Ambient temp ☐			☐ lce Cl_		PR□ S□	X Rec	æ			WB:_	101	<u> </u>	



Attn:

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 27

4151 N. Mulberry D., Ste 275 Kansas City, MO 64116

Project: Goodfellow 105E Location: St. Louis, MO

Number: 916029

Order #: 159410

Matrix Air

 Received
 02/22/16

 Analyzed
 02/22/16

 Reported
 02/22/16

PO Number:

Mullibel.	910029) Nui	iibei.				
Sample ID	Cust. ID	Location	Da	te	Tir	ne	FI	ow	Volu	me	
Parameter		Method			Total		RL*	1 1 1 1	Conc.		8 Hr TWA
159410-001	105E-PbA-001	2nd Floor M51.5	02/18	/16	165	min	3.67	'L/min	606	ì L	
Lead		NIOSH 7082M		1 1 1	<2.00 µg	1	2.00 µg	1 	<3.31 µg/m3		<1.14 µg/m3
159410-002	105E-PbA-002	2nd Floor O-47	02/18	/16	165	min	3.67	'L/min	606	ì L	
Lead		NIOSH 7082M			<2.00 µg	-	2.00 µg	 	<3.31 µg/m3		<1.14 µg/m3
159410-003	105E-PbA-003	2nd Floor M-O 42.5	02/18	/16	165	min	3.67	'L/min	606	ì L	
Lead		NIOSH 7082M		!	<2.00 µg	-	2.00 µg	T I I I	<3.31 µg/m3		<1.14 µg/m3
159410-004	105E-PbA-004	1st Floor M43.5	02/18	/16	165	min	3.67	'L/min	606	ì L	
Lead		NIOSH 7082M		1 1 1	<2.00 µg	1	2.00 µg	1 	<3.31 µg/m3		<1.14 µg/m3
159410-005	105E-PbA-005	1st Floor P46	02/18	/16	165	min	3.67	'L/min	606	ì L	
Lead		NIOSH 7082M			<2.00 µg		2.00 µg	1 	<3.31 µg/m3		<1.14 µg/m3
159410-006	105E-PbA-006	1st Floor O52	02/18	/16	165	min	3.67	'L/min	606	ì L	
Lead		NIOSH 7082M		!	<2.00 µg	1	2.00 µg	 	<3.31 µg/m3		<1.14 µg/m3
159410-007	105E-PbA-007	1st Floor Loading Dock	02/18	/16	165	min	3.67	'L/min	606	ì L	
Lead		NIOSH 7082M		!	<2.00 µg	1	2.00 µg	1 1 1	<3.31 µg/m3		<1.14 µg/m3
159410-008	105E-PbA-008	Basement West	02/18	/16	178	min	3.67	'L/min	653	3 L	
Lead		NIOSH 7082M			<2.00 µg	1	2.00 µg	! ! !	<3.07 µg/m3		<1.14 µg/m3
159410-009	105E-PbA-009	Basement East	02/18	/16	178	min	3.67	'L/min	653	3 L	
Lead		NIOSH 7082M		!	<2.00 µg	1	2.00 µg	! ! !	<3.07 µg/m3		<1.14 µg/m3
159410-010	105E-PbA-010	Basement South	02/18	/16	178	min	3.67	'L/min	653	3 L	
Lead		NIOSH 7082M		!	<2.00 µg	1	2.00 µg	1 1 1 1	<3.07 µg/m3		<1.14 µg/m3
159410-011	105E-PbA-011	Blank	02/18	3/16							
Lead		NIOSH 7082M		1	<2.00 µg	1	2.00 µg	1 			

Analyst: MHB

159410-02/22/16 03:46 PM

(b) (6)

Reviewed By: **Abisola Kasali**Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter PEL

Lead $0.0500 \text{ mg/m}^3 [50.0 \text{ } \mu\text{g/m}^3]$

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

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Submitting Co.	OCCU-TE	C Inc.			Lab WO#			Phone	816-230-	5580			
4151 N. Mulberry	Drive, Sc	ite 275	.		Acct#	3505		Fax / Email	816-994	3470 / j	ayhurst@occ	utec.com	
Kansas City, MO					**State of Collection	Missouri		**Cert. Required	ı D	Yes	⊠ No		
Project Name:	Goodfe	low	105 E	A 150		Spec	lal Instructio	ons [include r	quests for	special	reporting or	data packa	ges]
Project Location:	St. Loui	s, MO											
Project Number:	916029			Ŷ.									
PO Number:													
Turn Around Tim	ne (TAT)		fatrix / Sample	Type (Select ONE)			Te	sts / Analytes	(Select Al	L that A	oply)		
2 hours				m should be of SAME		Asbestos ir		Asbe	tos in Bul		·	etals-Total	
☐ Same day*†		matri	<u>x type.</u> Use auc	litional forms as needed	☐ PCM	(NIOSH 74	00)	PLM			☑ Lead	1 (
☐ 1 business day*	†	X Air		Solid	1	(AHERA)		PLM (Poir			RCRA M	 	
2 business days	•	Aqu		☐ Waste		(EPA Level	*	PLM (Qua	litative only)	T TOLO !	TCLP	
X 3 business days	· .	Bulk		Wastewater		scellaneous		NYELAP	Dalai 0-		TCLP / Le		
5 business days				Water Drinking	I	Dust (NIOS	100	CAELAP		τ)	TCLP / R		
* Not available for all	,		ol Filter (TSP)	Compliance		Dust (NIC		TEM (Cha	πιθια)		**		
A job received past † will begin its TAT th		Oil Pair		₩pe Composite		a - FTIR (NIC a - XRD (NIC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FOR AS	BESTOS	AIR.	BACT (M	Icrobiology PN & P/A)	
next business day Schedule rush organ	ilas mutti	Sluc		Micro-Vac Dust			юп / эоо)	TYPE OF RE			Mold Dire	•	
netals & weekend		Soil	-			Other		USED:					<u> </u>
Augunos.	Đ	ate .	Time	Sample id	entification		Wiped	pH /	Tin	ne ²	Flow	Rate ³	Total*
Sample #	100 47 6 200	pled**	Sampled**	(Employee, SSN, B			Area (ft²)	Temp *	Start	Stop	Start	Stop	Air
105E-P6A-00	1 3/	18	erin a grandra, o s	2nd Floor	M51.	5			0745	७३३	3.67	3.67	605.5
IOSE- PHA-OD	2	andy: District		2nd Floor	0-47				0755	1040	3.67	3.67	605.59
10se - 8pp - 00	3			2nd Floor	M-0 "	12.5			0200	1645	3.67	3.67	608.55
105E - P6/4-00	ડ ય			1st Floor	4 43.	5			0705	1050	3.67	3.67	605.5
165E-PbA-00.	5			15 Floor	P46			4.	0110	เบรร	3.67	3.67	605.5
105E-P614-00	مح			1st Floor	052	•			0515	1900	3.67	3.67	605.5
105E-PLA -00	77			1st Floor	Load:	ng Dock			0820	1105	3.67	3.67	605.5
105E-P6A-001	6			Basement	West	· ·			0865	1153	3.67	3.67	653.21
105E-P64-00	29			Basement	Eas	1			755	1153	3.67	3.67	653.1
105E-P6A-010		4	*	Basement	Sou	th	,	1 1	0855	1153	1	3.67	653.2
'Ty	II soil and a	quequs sa	amples must be se	xcursion ² Beginning/End nt in adequate quantity for o	luplicate enaly	sis to be perfo	med per EPA	requirements. F.	il ure to per	orm a sam	ple duplicate ar	alysis,	
	due to a	lack of sa	mple quantity, will	lead to a disclaimer on the r	report. All proi	blem jobs with	out customer re	esponse held ove	r 30 days w	ii be voided	and disposed	of. Imple Disp	oosal
	ampled b		J .	Relinquish	led to lab I	Dy /	-	2-2	1-1	6	Retur	n to Sender sal by lab	(Shipping fe
(\$50 fen for excessive w (SD) (6) (Shipping Met													
DATE / TIME 12 10-14 DATE / TIME 2-19 /600				(0)			Sn HD	_	USM USM				
Sample return requested Ambient temp				□ lce Cl_		ROSO	X X Re			rt.	WB: _	1//	2

SLG

SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com

Submitting Co.	OCCU-TE	Č Inc.			Lab WO#			Phone	816-230-5	580			
4151 N. Mulberry			, ,		Acct#	3505		Fax / Email	816-994-3	470 /	jayhurst@oc	cutec.com	
Kansas City, MO	64116				**State of Collection	Missouri		**Cert. Required		Yes	⊠ No		
	Goodfe	llow	164	F		T	ial Instruction	ns linclude re	quests for s	pecia	l reporting or	data packa	ges]
Project Location:				<i>.</i> 	• .								
Project Number:													
PO Number:													
Turn Around Tin	ne (TAT)		Astrix / Sampl	e Type (Select ONE)	1		Tes	ts / Analytes	(Select ALL	that A	Aoply)		<u> </u>
2 hours*		All	samples on fo	rm should be of SAM	ie i	Asbestos i			tos in Bulk		1 '	letals-Total	
Same day †		matri.	<u>x type.</u> Use ad	iditional forms as nee	ded. PCN	(NIOSH 74	00)	☐ PLM			⊠ Lead		
1 business day	†	⊠ Air		Solid	☐ TEM	(AHERA)	1	PLM (Point	t Count)	1.	RCRA M	etais	
2 business days	*†	☐ Aqu	eous	☐ Waste	☐ TEM	(EPA Level	115)	PLM (Qual	itative only)			TCLP	
X 3 business days	* †	☐ Bulk	•	☐ Wastewater	Mi	scellaneou	s Tests	☐ NYELAP		-	TCLP / L	ead	
5 business days	• •	☐ Hi-V	ol Filter (PM10) Water, Drinking	☐ Tota	Dust (NIOS	SH 0500)	CAELAP (Point Count)		TCLP / R		
* Not available for all	tests		ol Filter (TSP)	☐ Compliance	☐ Res	p. Dust (NIC	SH 0600)	TEM (Chat	field)		TCLP / F	uli (w/ organ	iiCS) 10 day
A job received past † will begin its TAT th		Oil		☑ Wipe	☐ Silic	a - FTIR (NI	OSH 7602)	<u> </u>			М.	icrobiology	<u></u>
next business day		Pair	nt	Wipe, Composi		a - XRD (NI	OSH 7500)	FOR ASE	BESTOS A	IR:	BACT (M	PN & P/A)	
Schedule rush organ		Sluc	•	Micro-Vac I				TYPE OF RESPIRATOR Mold Direct Exam					
advence.	100 4540	□ _{Soil}			· Q · ·			USED:		,		D 4 3	
Sample #	200	ate pied**	Time Sampled**	Sample (Employee, SSN	e identification		Wiped Area (ft²)	pH / Temp *	Start	Stop	Start	Rate ³ Stop	Total ⁴
104E - P6A-01	30.3	10		Blan		<u></u>	_	_		-	-	_	·
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	1 1 1 4 1		Barrer (j. 1971) Primar Barrer (j. 1971)										
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				 Excursion 2Beginning									1
	ll soll and a due to a	queous sa lack of sai	imples must be s mple quantity, wil	ent in adequate quantity I lead to a disclaimer on	for duplicate analy the report. All proi	sis to be perfo	rmed per EPA re	equirements. Fai ponse held over	Jo days will b	n a san e volde	nple duplicate an	alysis, of.	
N - Just	impled b	-	J	Relinqu	ished to lab l	•	5	22	2-16	5	Retur	ample Disp n to Sender sal by lab	(Shipping fee
TURE (b)	(6)		Į.	SIGNATURE (b)	(6)			(b) (6)				ipping Met	
DATE / TIME	7-18-	14		DATE / TIME _ 2 ·	-19 11	600		(3)			□	UPS DB	
☐ Sample return							V 151 Bacc	s i v		ort.	— ☐ Hb	D DB.	n
* Temperature taken w			quired.	Chain-of-Custody docum		R S		· · · ·		JI I.		100	1
										į		2 of	2

1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

March 3, 2016

Attention:

Jay Hurst

OCCU-TEC, Inc.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-336OCCA

Goodfellow - 105E Project

OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on March 3, 2016. These samples represent the TEM samples for the Goodfellow - 105E Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the ten (10) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely, (b) (6)

S. Dewayne Lear, B.S. TEM Laboratory Director



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow - 105E Project - OCC# 916029

McCall and Spero Project No: MSE-336OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I01	105E-AA-001	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I02	105E-AA-002	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
103	105E-AA-003	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I04	105E-AA-004	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I05	105E-AA-005	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I06	105E-AA-006	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
107	105E-AA-007	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
108	105E-AA-008	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I09	105E-AA-009	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I10	105E-AA-010	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bi NA = Not Applicable

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

SAED=Selected Area Electron Diffraction

BDL = Below Detectable Limit CH = Chrysotile A = Amosite

Limit CH = Chrysotile A = Amosite EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director

Date: 3\3\16

McCall and Spero Environmental, Inc.

^{*} Single fiber detection limits are used when no structures are detected.



Results Transmitted/Date:____

1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company:	DCCU-TEC INC.	Telephone #:	816-231	1-5580 Fa	x #: 816-994-	3470
Contact: Ja	ay Hurst	Client Pro	oject Numb	er: 91602	.9	
Relinquished b	y <u>c</u> (b) (6)	_ Date: Ѯ	12/201	6	Time: 15.0	6
Written Report	to: jaykurst@occutec.com ; jsmith@	occutec.	com		<u>\</u>	
Project Name:	Goodfellow 105E					
Turn-Around	Time: (Circle One) 4 Hour 6-8 Hour(same day)	24 Hour	2-3 Day	4-5 Day We	ekend Rush Afte	er Hour Rush
gorevelo eto a		1	1			
=	MSE-336 OCCA Comments		ct	1		
	_{ved by:} (b) (6)		03/03	16	Time:	100AV
Sample To Be	Analyzed by: TEM AHERA ZAA 40CFR Par	rt 763				
Samples Prepa	red By: (O)	Method:	_	& Rood	<u>-</u>	
Samples Analy	zed By:	Date:	33	16		
Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time	x Liters/Minute	= Volume
105E-AA-601	2NAFIOOR COLLINN M.SI.5	10:56	13:41	165	8.03	1324.95
105E-AA-002	- 2NO Floor Column 0-47	10:57	13:42	165	8.03	1324.95
105E-AA-003	2NP Flour Column M/0-42.5	10:58	13:43	165	8.03	1324.95
105E-AR-004	1 ist Floor Column M-44.5	11:01	13:46	165	8.03	1324.95
125E-AA-005		11:05	13150	165	8.63	1324.95
105E-AA-006	ist Floor Column 0-52	nin	13:55	165	8.03	1324.95
106E-AA-00	1st Floor Luading Doch	11:08	13:53	165	8,03	132495
105E-AA-008	1 J .	11:21	14:06	165	8.63	1324.95
105E-AR-009	BASEMENT Column 0-48	11:22	14:07	165	8.03	1324.95
105E-AA-010	Tunnel Column P.45.5	11:25	14:10	165	8.03	1324.95
105E-RA-011	Blank					
						_

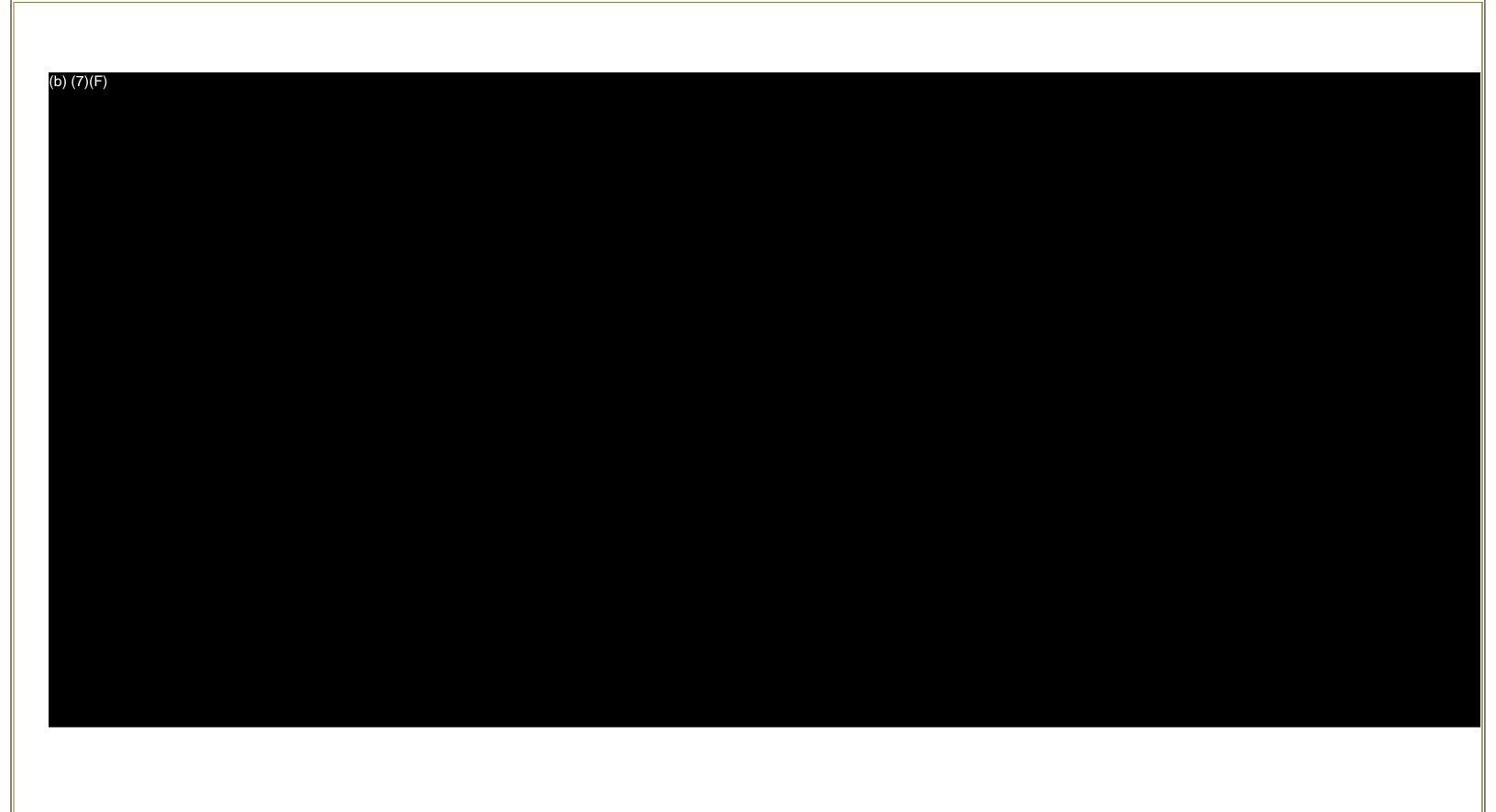
Fax/Phone By:

	BUILDING 105F								
Asbestos TEM Air Samples									
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level					
105F-AA-001	1st Floor Column P-28	<15.2	s/mm ²	70 s/mm ²					
105F-AA-002	1st Floor Column P-32	<15.2	s/mm ²	70 s/mm ²					
105F-AA-003	1st Floor Column L-34	<15.2	s/mm ²	70 s/mm ²					
105F-AA-004	1st Floor Column M-36	<15.2	s/mm ²	70 s/mm ²					
105F-AA-005	2nd Floor Column P-34	<15.2	s/mm ²	70 s/mm ²					
105F-AA-006	2nd Floor Column M-33	<15.2	s/mm ²	70 s/mm ²					
105F-AA-007	2nd Floor Column P-27	<15.2	s/mm ²	70 s/mm ²					
105F-AA-008	Blank		Not Analyzed						
Lead Air Samples									
Sample # Location Result Unit of Measure GSA Selected Target Level									
105F-PbA-001	1st Floor Column P-28	<3.31	μg/m³	30 μg/m ³					
105F-PbA-002	1st Floor Column P-32	<3.31	$\mu g/m^3$	30 μg/m ³					
105F-PbA-003	1st Floor Column L-34	<3.31	μg/m³	30 μg/m ³					
105F-PbA-004	1st Floor Column M-36	<3.31	μg/m³	30 μg/m ³					
105F-PbA-005	2nd Floor Column P-34	<3.31	$\mu g/m^3$	30 μg/m ³					
105F-PbA-006	2nd Floor Column M-33	<3.31	μg/m³	30 μg/m ³					
105F-PbA-007	2nd Floor Column P-27	<3.31	μg/m³	30 μg/m ³					
105F-PbA-008	Blank	<2.00	μg	30 μg/m ³					
	Lead Surface Dust V	Wipe Samples							
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level					
105F-PbW-001	2nd Floor Column P-27 Concrete Stair	<10	μg/ft²	200 μg/ft ²					
105F-PbW-002	2nd Floor Column M-33 Shelf	<10	μg/ft²	200 μg/ft ²					
105F-PbW-003	2nd Floor Column M-35 Duct	897	μg/ft²	200 μg/ft ²					
105F-PbW-004	1st Floor South Stairwell Stair Tread	59.5	μg/ft²	200 μg/ft ²					
105F-PbW-005	1st Floor Column P-33.5 Window Sill	<10	μg/ft²	200 μg/ft ²					
105F-PbW-006	1st Floor Column M-28.5 Stair Stringer	<10	μg/ft²	200 μg/ft ²					
105F-PbW-007	Blank	<10	μg	200 μg/ft ²					

 $[\]mu g/m^3$ = micrograms per cubic meter

 $[\]mu$ g/ft² = micrograms per square foot

	BUILDING 105F									
Lead Surface Dust Micro-vac Samples										
Sample # Location Result Unit of Measure GSA Selected T Level										
105F-PbV-001	2nd Floor Column P-27 Carpet	<92.9	μg/ft²	$200 \mu g/ft^2$						
105F-PbV-002	2nd Floor Column M-35 Pipe Insulation	<92.9	μg/ft²	$200 \mu g/ft^2$						
105F-PbV-003	2nd Floor Column O-35 Concrete Floor	<92.9	μg/ft²	200 μg/ft ²						
105F-PbV-004	1st Floor Elevator Wood Block Floor	<92.9	μg/ft²	200 μg/ft ²						
105F-PbV-005	1st Floor Column P-33 Carpet	<92.9	μg/ft²	200 μg/ft ²						
105F-PbV-006	1st Floor Column M-28.5 Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²						
105F-PbV-007	Blank	<10	μg	200 μg/ft ²						



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH				
GOODFELLOW MO0614 (105F) - Basement	SUB. DATE: 03/04/16				
CLIENT NAME:					
GENERAL SERVICES ADMINISTRATION					
	SCALE: NTS				
DPO IECT NAME.	SCALE. NIS				

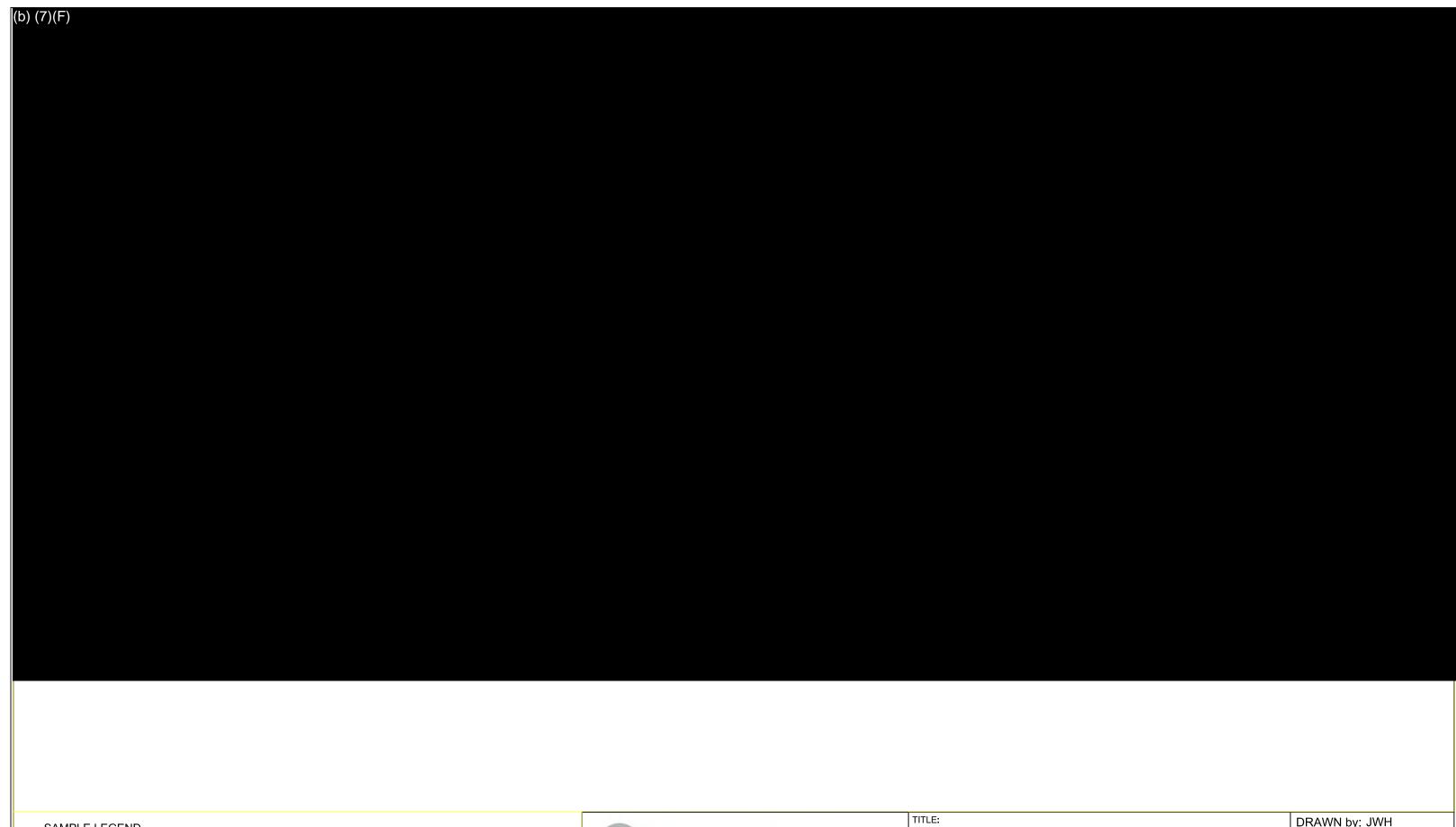
916029

GOODFELLOW GS-P-16-16-GZ7025



GOODFELLOW GS-P-16-16-GZ7025

916029



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE

PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH				
GOODFELLOW MO0614 (105F) - 1st FLOOR	SUB. DATE: 03/04/16				
CLIENT NAME: GENERAL SERVICES ADMINISTRATION					
PROJECT NAME:	SCALE: I	NTS			
GOODFELLOW GS-P-16-16-GZ7025	916029				



Schneider Laboratories Global, Inc

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Customer: OCCU-TEC, INC. (3505) Address: 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn:

Project: Goodfellow 105F -Location: St Louis, MO Number: 916029

Order #: 159446

Matrix Air

Received 02/22/16 Analyzed 02/23/16 Reported 02/25/16

PO Number:

-Number:	910029			PC	Nun	iber.			
Sample ID	Cust. ID	Location	Date	Tin	ne	FI	ow	Volume	
Parameter		Method		Total	ı	RL*	Conc.		8 Hr TWA
159446-001	105F-PbA-001	P28 1st Floor	02/18/16	165	min	3.67	L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	:	2.00 µg	<3.31	µg/m3	<1.14 µg/m3
159446-002	105F-PbA-002	P32 1st Floor	02/18/16	165	min	3.67	L/min	606 L	
Lead		NIOSH 7082M	 	<2.00 µg	:	2.00 µg	<3.31	µg/m3	<1.14 µg/m3
		Endcaps mis	sing; possible cross	-contamination	or sa	mple lo	ss.		
159446-003	105F-PbA-003	L34 1st Floor	02/18/16	165	min	3.67	L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	:	2.00 µg	<3.31	µg/m3	<1.14 µg/m3
159446-004	105F-PbA-004	M36 1st Floor	02/18/16	165	min	3.67	L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	:	2.00 µg	<3.31	µg/m3	<1.14 µg/m3
159446-005	105F-PbA-005	P34 2nd Floor	02/18/16	165	min	3.67	L/min	606 L	
Lead		NIOSH 7082M	 	<2.00 µg	:	2.00 µg	<3.31	µg/m3	<1.14 µg/m3
159446-006	105F-PbA-006	M33 2nd Floor	02/18/16	165	min	3.67	L/min	606 L	
Lead		NIOSH 7082M	 	<2.00 µg	:	2.00 µg	<3.31	µg/m3	<1.14 µg/m3
159446-007	105F-PbA-007	P27 2nd Floor	02/18/16	165	min	3.67	L/min	606 L	
Lead		NIOSH 7082M	! ! !	<2.00 µg	:	2.00 µg	<3.31	µg/m3	<1.14 µg/m3
159446-008	105F-PbA-008	Blank	02/18/16						
Lead		NIOSH 7082M	! ! !	<2.00 µg	:	2.00 µg			

Analyst: IH

159446-02/25/16 01:24 PM

(b) (6) Rev

Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter PEL

Lead 0.0500 mg/m³ [50.0 μg/m³]

Report Amended. Revised samples results with updated stop times per customer request.

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



_{UR}(b) (6)

Temperature taken with IR Gun A.

☐ Sample return requested ☐ Ambient temp ☐ Ice

SIGNATURE

DATE / TIME /2-16

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V:\159\159446

(\$50 fee for excessive weight

Shipping Methor

· · · ·												•		
Submitting Co.	CU-TE	C Inc.				Lab WO#			Phone	816-23	0-5580			
4151 N. Mulberry Dr	ive, Su	ite 275	i			Acct#	3505	,	Fax / Emai	.	4-3470 / j	ayhurst@oc	cutec.com	n
Kansas City, MO 64	116		-		(*State of Collection	Missouri		**Cerl Requir		Yes	⊠ No		
	odfel	low	1051					ial Instruction	ons [include	15,11,223	or special	reporting or	data pack	ages]
Project Location: St.	Louis	s. MO												
Project Number: 916								,				-		
PO Number:	JULU													
Turn Around Time (TAT)	N	flatrix / Sample	Type (Select	ONE)			Te	ests / Analyte	s (Select A	ALL that A	poly)		
2 hours*			samples on for				Asbestos ir			estos in Bu			letals-Tota	ı
☐ Same day* †		matri	x type. Use add	ditional forms a	s needed.	PCM	1 (NIOSH 74	00)	PLM			⋉ Lead		
1 business day* †		X Air		Solid		TEM (AHERA)		PLM (Point Count)			RCRA Metals			
2 business days* †		☐ Aqu	eous	Waste		TEM	(EPA Level	II)	PLM (Qu	ıalitative on	ly)		TCLP _	
☑ 3 business days* †		☐ Bulk	,		er	Mi	scellaneous	Tests	☐ NYELAF	,		TCLP/L		
☐ 5 business days* †		☐ Hi-V	ol Filter (PM10)	Water Dri	nking	☐ Tota	i Dust (NIOS	SH 0500)	☐ CAELAF	Point Cou	int)	TCLP / F		
* Not available for all tests			ol Filter (TSP)	☐ Complian	ce	Res	p. Dust (NIC	SH 0600)	□ ТЕМ (С	natfield)		TCLP / F	ull (w/ orga	nics)
A Job received past 3PN † will begin its TAT the	vi	Oil		✓ Wipe			a - FTIR (NIC						licrobiolog	<u>y</u>
next business day		Pain		Wipe, Cor		☐ Silic	a - XRD (NIC	OSH 7500)	FOR A	SBESTOS	S AIR:	BACT (N		
Schedule rush organics,		Sluc		Micro-Vac Dust				TYPE OF RESPIRATOR			Mold Direct Exam			
advance.		□ _{Soil}				<u> </u>			USED:			<u> </u>		_
Sample #	SHE LILLY WAS A	ate pled**	Time Sampled**	Sa (Employee,	ample ider			Wiped Area (ft²)	pH / Temp *	Start	me ² Stop	Start	Rate ³ Stop	- To
105=- PLA -001		15		P28		Fluor		7 0 (15 /		1216	1361	3.67	3.67	60
105F-P64-00Z				P32		Floor				1225	1310	3.67	3.67	رون
105 F - PbA -003				L34	. •	Floo	,			1228	1313	3.67	3.67	60
1054-614-004	. OF			M36	١٤١	FIC				1230	1315	3.67	3.67	60
105F-PbA-005				P34	2nd	Flo	יטר,			1237	1322	3.67	3.67	60
104F-PbA-006				M33	2n.	FI	00C		· .	1246	133 1	3.67	3.67	60
1054-9614-007			•	PZZ	2nd		loor			1252	1337	3.67	3.67	60
105F-P6A-008	4			Blan	h	1	ı	_	_				_	<u> </u> -
			; . <u> </u>				,					-		-
1Time:	Δ=Aros	R=Rlant	P=Personal E=E	xcursion 2Rect	ning/End of	Sample D	eriod 3Pump (Calibration in	l iters/Minute	Volume in	Liters Itime	in min × flow	In L/min1	
All so	oil and ad	queous sa	amples must be se	ent in adequate qu	antity for dup	olicate analy	sis to be perfo	med per EPA	requirements.	Failure to pe	rform a sam	ple duplicate ai	nalysis,	
			mple quantity, will					out customer n	esponse neid o	Ter 30 days t	mil De VOIGEC		ample Dis	posa
Samp	pled b			NAME	inquished Arnol		- N		2-2	2-	0		n to Sende sal by lab	r (Ship

(b) (6)

1600

Chain-of-Custody documentation continued internally within lab. Te

RISEX



Schneider Laboratories Global, Inc

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CustomerOCCU-TEC, INC. (3505)Address4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159408

 Matrix
 Wipe

 Received
 02/22/16

 Analyzed
 02/23/16

 Reported
 02/23/16

Project Goodfellow 105F
Location St Louis, MO
Number 916029

-Number	910029					
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159408-001	105F-PbV-001	2nd FL P27 Carpet	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159408-002	105F-PbV-002	2nd FL M35 Pipe Insul	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159408-003	105F-PbV-003	2nd FL 035 Concrete Floor	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159408-004	105F-PbV-004	1st FL Elevated FL Wood	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159408-005	105F-PbV-005	1st FL P33 Carpet	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159408-006	105F-PbV-006	1st FL M28.5 Ceiling Tile	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 μg/ft2
159408-007	105F-PbV-007	Blank	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 μg/wipe
159408-008	105F PbW-001	2nd FL P27 Stair	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159408-009	105F PbW-002	2nd FL M33 Shelf	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159408-010	105F PbW-003	2nd FL M35 Duct	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	897 µg/wipe	897 μg/ft2	20.0 μg/ft2
159408-011	105F PbW-004	1st FL S. Stair Tread	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	59.5 μg/wipe	59.5 μg/ft2	10.0 μg/ft2
159408-012	105F PbW-005	1st FL P33.5 Win Sill	02/18/16		-	

Minimum Total Reporting Limit: 10.0 μ g/wipe. EPA Clearance Std: 40 μ g/ft² for floors, 250 μ g/ft² for interior window sills, and 400 μ g/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159408

 Matrix
 Wipe

 Received
 02/22/16

 Analyzed
 02/22/16

 Reported
 02/23/16

Project Goodfellow 105F
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159408-013	105F PbW-006	1st FL M28.5 Stringer	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159408-014	105F PbW-007	Blank	02/18/16			
Lead		EPA 7000B / 3050B		<10.0 µg/wipe		10.0 μg/wipe

Analyst OHE

159408-02/23/16 01:22 PM

(b) (6)

Metals Supervisor

SLG

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Submitting Co.	OCCU-TE	C Inc.			_ab WO#			Phone	816-23	0-5580			
4151 N. Mulberry Drive, Suite 275			Acct # 3505				816-994-3470 / jayhurst@occutec.com						
Kansas City, MO 64116					*State of collection	Missouri		**Cert. Required] Yes	⊠ No		
Project Name: Goodfellow - 105 F							ial Instructio	ons [include re	quests	for special	reporting or	data packa	iges]
Project Location:	St. Lou	is, MO		,									
Project Number:	916029												
PO Number:									١ '				
Turn Around Tim	e (TAT)		/latrix / Sample	Type (Select ONE)			Te	sts / Analytes	(Select	ALL that A	pply)		
2 hours*				rm should be of SAME ditional forms as needed.		Asbestos i			tos in B	uik		<u>letais-Total</u>	<u>. </u>
Same day* †						(NIOSH 74	00)	PLM			⊠ Lead	Ístala	
1 business day* 2 business days		X Air ☐ Aqu	eous	☐ Solid ☐ Waste		(AHERA) (EPA Level	11)	PLM (Poin		nlv)	RCRA M	TCLP	
■ 2 business days	•	☐ Bulk		Wastewater		scellaneous	-	NYELAP	, italiya o		☐ TCLP / L		
5 business days	•) Water, Drinking	_	Dust (NIOS		CAELAP (Point Co	unt)	TCLP / F		s
* Not available for all	tests	☐ Hi-V	ol Filter (TSP)	Compliance	Resp	Dust (NIC	OSH 0600)	TEM (Char	tfieid)		TCLP / F	ull (w/ orga	nics) 10 day
A job received pest		□ Oil		₩ipe	Silica	a - FTIR (NIC	OSH 7602)				W	licrobiology	y
† will begin its TAT th next business day	е	☐ Paint		☐ Wipe, Composite	Silica - XRD (NIOSH 7500)		FOR ASBESTOS AIR:			☐ BACT (MPN & P/A)			
Schedule rush organ		Sluc	_	Micro-Vac Dust		Other	<u> </u>	TYPE OF RE	SPIRATO	OR	Mold Dir	ect Exam	
advance.	197. 00. 90%	□ _{Soil}	Processor Company		<u> </u>			USED:			<u> </u>		
Sample #		ate pled**	Time Sampled**	Sample Iden (Employee, SSN, Bldg		al Tyne¹)	Wiped Area (ft²)	pH / Temp *	Start	ime ² Stop	Start	Rate ³ Stop	Total⁴ Air
JOSF-PbW-0	7/2/2	Habrin,	1254	7 nd 1 - 02.	7 Sh		186		<u>J.C., (</u>	To taper		- Ctop	7.31
105F-PbW-Q	557.33		MARCH MARCH	7 nd (1 m/3		elf	101			1			
			1527	- 10								<u></u>	
105F-PbW-003	3		153Z	2nd Floor M3	<u> </u>	nct				-		<u> </u>	
10SF-PbW-004			1548	1st Floor Sis	Stair	Tread							
105F-PbW-005	5		1554	1st Floor P3	3.5 W	indau Sil			,				
105F-PbW-000	e		luco	1st floor M28	,5 5	tringer		,					
OSF-PbW-007			1405	BLANK		J	_						
										,			
Bitation of state bases a side of self-	and a second	and the first	**************************************						,				-
	ale median				the same	The Landson	ing a second of	and the second second			<u> </u>		
						oringin by and construction					in min × flow i		
									374.11			E VE No.	
													
													-
							(b)	(6)			2000 May 100 May 100 May 100 May 100 May 100 May 100 May 100 May 100 May 100 May 100 May 100 May 100 May 100 M	pping Me	12, 7, 20
						40.00						☐ UPS I	LIUSM
				- Control of Control o		RUSE wasty was	X Ernec	ewe a priysical nd conditions nad	Copy or	Teport	WB:/	1517	
TO THE RESERVE OF THE PARTY OF	Park Section 1	·中央公共工 國際	and the state of t	Maria Maria								V ,	

SLG

☐ Sample return requested ☐ Ambient temp ☐ Ice

* Temperature taken with IR Gun A. **Required.

SCHNEIDER LABORATORIES GLOBAL, INC

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-							
	1	J·\1	59\	1	59	40	8

Submitting Co.	&C Inc.	Lab WO#		Phone	816-230-5580			
4151 N. Mulberry Drive, S	,	Acct#	3505	Fax / Email	816-994-3470 / i	jayhurst@occutec.com		
Kansas City, MO 64116		**State of Collection		**Cert. Required	□ Wes IV No			
Project Name: Goodfe	llow - 105 F		Special Instruc	tions [include re	quests for special	reporting or data packa	iges]	
Project Location: St. Lou								
Project Number: 916029								
PO Number:	*. *.			* .				
Turn Around Time (TAT)	Matrix / Sample Type (Select ON	NE)		Tests / Analytes	(Select ALL that A	Apply)		
2 hours*	All samples on form should be of Sa		Asbestos in Air	Asbes	stos in Bulk	Metals-Total	<u> </u>	
☐ Same day* †	matrix type. Use additional forms as r	PCN	(NIOSH 7400)	☐ PLM	f . j	X Lead		
1 business day* †		☐ TEM	(AHERA)	PLM (Poir	it Count)	RCRA Metals		
2 business days* †	Aqueous Waste	☐ TEM	(EPA Level II)	PLM (Qua	litative only)	TCLP		
ズ 3 business days⁺†	☐ Bulk ☐ Wastewater	Mi	iscellaneous Tests	■ NYELAP	1:	TCLP / Lead		
☐ 5 business days* †	☐ Hi-Vol Filter (PM10) ☐ Water, Drinki	ing Tota	al Dust (NIOSH 0500)	CAELAP (TCLP / RCRA Metal		
* Not available for all tests	Hi-Vol Filter (TSP) Compliance	Res	p. Dust (NIOSH 0600)	 	tfield)	TCLP / Full (w/ orga	nics) 10 day	
A job received past 3PM † will begin its TAT the	Oil Wipe Paint Wipe, Comp	l	a - FTIR (NIOSH 7602	,	OCETOE AID.	Microbiology BACT (MPN & P/A)		
next business day	☐ Paint ☐ Wipe, Comp	And a second second	a - XRD (NIOSH 7500	TYPE OF RE	BESTOS AIR:	☐ Mold Direct Exam	,	
Schedule rush organics, multi- petais & weekend tests in advance.	Soil Soil		Other	USED:	SPIRATOR	Niold Direct Exam		
1 Tay Carta	and the state of t	nple Identification	n Wiped		Time ²	Flow Rate ³	Total ⁴	
		SN, Bldg, Mater			Start Stop		Air	
105F-PBV-001 7/1	8/14 1254 2nd floor	P27 Care	net 100cm	_n 2				
LOSF-PbU-GOZ	1537 2nd floor	M35 Pipe]	Insulation					
05F-PbV-003	1540 2nd floor (035 Concrete	floor	, W ₀ 1				
105F-PbV-004	1545 1stfloor El	levater floor 1	Wood			`.		
105FBU-005	1557 1st floor (P33 Carpe	+					
105F-PbV-00ce	1401 150 ADDE 1	MZ8,5 Ccil:	noTile L					
105F-PbU-007	1405 BLAN	JΚ						
			51748					
			1					
¹Type: A=Ar	ea B=Blank P=Personal E=Excursion ² Beginn	ing/End of Sample P	Period ³ Pump Calibration	n in Liters/Minute 4	Volume in Liters [time	e in min × flow in L/min]		
All soil and	aqueous samples must be sent in adequate quar a lack of sample quantity, will lead to a disclaime	ntity for duplicate anal	lysis to be performed per E	PA requirements. F	ail ure to perform a sar	mple duplicate analysis,		
Sampled		nquished to lab				. Sample Dis	•	
N = Justin Ara	. \	a Amale)		222	16	Return to Sende Disposal by lab (\$50 fee for excessive		
(b) (6)	SIGNATURE) (6)		(b) (6)		Shipping Me		
DATE / TIME 2 18	DATE / TIME	Z-19-14 11	3 ,00			FX UPS	USM	

Chain-of-Custody documentation continued internally within lab.Term

RSSX



1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 25, 2016

Attention:

Jay Hurst

OCCU-TEC INC.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2226OCCA.2

Goodfellow 105F Project

OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 22, 2016. These samples represent the TEM samples for the Goodfellow 105F Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the seven (7) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely, (b) (6)

S. Dewayne Lear, B.S. Laboratory Director



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow 105F Project - OCC# 916029

McCall and Spero Project No: MSE-2226OCCA.2

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
1001	105F-AA-001	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
1002	105F-AA-002	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I003	105F-AA-003	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I004	105F-AA-004	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
1005	105F-AA-005	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I006	105F-AA-006	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I007	105F-AA-007	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

CH = Chrysotile

A = Amosite

BDL = Below Detectable Limit

F=Fiber

B=Bundle C=Cluster

M=Matrix

NSD=No Structures Detected

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

uaic illillillicu

s/cc = asbestos structures per cubic centimeter

* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency

of the U.S. Government.

(b) (6)

Laboratory Director:

Date: 225/16

McCall and Spero Environmental, Inc.



. 1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company:	OCCU-TEC INC.	Telephone #	816-23	1-5580 F	ax #: 816-994	-3470		
Contact: Ja	y Hurst	Client Project Number: 916029						
Relinquished by	y: (b) (6)	_ Date: _	7/18		Time: /7	50		
Written Report	to: jayhurst@occutec.com; jsmith@	occutec.	cóm					
Project Name:	Goodfellow 105 F							
Turn-Around T	Time: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour	2(3 Day)	4-5 Day Wo	eekend Rush A	fter Hour Rush		
	A Market September 1981							
MSE Project #:	MSE- 22200CCA. 2 Comments	: Inta	ct					
Samples Receiv	(b) (6)	Date:	2.22	16	Time: 0	:00 AM		
Sample To Be A	Analyzed by: TEM AHERA / EPA 40CFR Pa							
Samples Prepar	red By: (b) (6)	Method	: Burdett	& Rood	-			
Samples Analyz		_ _ Date:	2/22	116				
Client ID	Sample Location / Type	Start	Stop	Total Time	v I itoma/Min4	n – Volumo		
Number	(I)inside(O)outside(B)blank (P)personal(A)ambient	Time	Time	Total Time x Liters/Minute = Volume				
165F- AA-601	1st FLoor P28	1216	1501	165	7.03	1324.95		
105F-AA-002	1st Floor P32	1225	1510	165_	8.03	1324.95		
05F-AA-003	1st Floor L34	1228	1513	165	8.03	7324.95		
<u> 1055-/4A-004</u>		1230	1815	165	8.03	1324.95		
105F-4A-005	2 no Floo- P34	1237	1322	165	8.03	1324.95		
105F-AA-00G	2nd Floor M33	1246	1531	165	8.03	1324.95		
105F-HA-007	2nd Floor P27	1252	1537	165	8.03	1324.45		
105F-AA -008	Blank	~	ļ <u> </u>					
		-						
-								
···								
	,							
		<u> </u>						
Results Trans	mitted/Date:	Fax	/Phone B	y:				
		· ·						

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDING 105L							
	Asbestos TEM Ai	r Samples						
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level				
105L-AA-001	1st Floor Column A-14	<15.2	s/mm ²	70 s/mm ²				
105L-AA-002	1st Floor Column C-14	<15.2	s/mm ²	70 s/mm ²				
105L-AA-003	1st Floor Column B-09	<15.2	s/mm ²	70 s/mm ²				
105L-AA-004	1st Floor Column D-08	<15.2	s/mm ²	70 s/mm ²				
105L-AA-005	1st Floor Column A-02	<15.2	s/mm ²	70 s/mm ²				
105L-AA-006	Blank		Not Analyzed					
	Lead Air Sai	mples						
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level				
105L-PbA-001	1st Floor Column A-14	<3.34	μg/m³	$30 \mu g/m^3$				
105L-PbA-002	1st Floor Column C-14	<3.61	μg/m ³	$30 \mu g/m^3$				
105L-PbA-003	1st Floor Column B-09	<3.32	μg/m³	$30 \mu g/m^3$				
105L-PbA-004	1st Floor Column D-08	<3.30	μg/m ³	$30 \mu g/m^3$				
105L-PbA-005	1st Floor Column A-02	<3.34	$\mu g/m^3$	30 μg/m ³				
105L-PbA-006	Blank	<2.00	μg	30 μg/m ³				
	Lead Surface Dust V	Vipe Samples						
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level				
105L-PbW-001	1st Floor Janitor Closet Floor	<10	μg/ft ²	200 μg/ft ²				
105L-PbW-002	1st Floor HVAC Room Top of Duct	<10	μg/ft²	200 μg/ft ²				
105L-PbW-003	1st Floor Room 105 Top of Light	<10	μg/ft ²	200 μg/ft ²				
105L-PbW-004	Blank	<10	μg	$200 \mu \text{g/ft}^2$				
	Lead Surface Dust Mic	ro-vac Samples						
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level				
105L-PbV-001	1st Floor Hallway Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²				
105L-PbV-002	1st Floor HVAC Room Floor East Side	<92.9	μg/ft²	200 μg/ft ²				
105L-PbV-003	1st Floor Room 105 Carpet	<92.9	μg/ft²	200 μg/ft ²				
105L-PbV-004	Blank	<10	μg	200 μg/ft ²				



(b) (7)(F)

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159628

 Matrix
 Wipe

 Received
 02/23/16

 Analyzed
 02/23/16

 Reported
 02/24/16

Project Goodfellow - 105L Training

-Location St. Louis, MO -Number 916029

Sample ID **Cust. Sample ID** Location Sample Date Conc. RL* Parameter Method Area Total 159628-001 105L-PbW-001 Janitor Closet Floor 02/18/16 EPA 7000B / 3050B Lead 1.00 ft2 <10.0 µg/wipe <10.0 µg/ft2 10.0 µg/ft2 159628-002 105L-PbW-002 **HVAC Room Top of Duct** 02/18/16 Lead EPA 7000B / 3050B 1.00 ft2 <10.0 µg/wipe <10.0 µg/ft2 10.0 µg/ft2 159628-003 105L-PbW-003 Rm 105 Top of Light 02/18/16 EPA 7000B / 3050B Lead 1.00 ft2 <10.0 µg/wipe <10.0 µg/ft2 10.0 µg/ft2 105L-PbW-004 02/18/16 159628-004 **Blank** EPA 7000B / 3050B Lead <10.0 µg/wipe 10.0 µg/wipe 159628-005 105L-PbV-001 Hallway Ceiling Tile 02/18/16 EPA 7000B - Vacwipe / Lead 0.108 ft2 <10.0 µg/wipe <92.9 µg/ft2 92.9 µg/ft2 3050B 159628-006 105L-PbV-002 **HVAC Room Floor** 02/18/16 Lead EPA 7000B - Vacwipe / 0.108 ft2 <10.0 µg/wipe <92.9 µg/ft2 92.9 µg/ft2 3050B 159628-007 105L-PbV-003 Room 105 Carpet 02/18/16 EPA 7000B - Vacwipe / Lead 0.108 ft2 <10.0 µg/wipe <92.9 µg/ft2 92.9 µg/ft2 3050B 159628-008 105L-PbV-004 02/18/16 Blank

EPA 7000B - Vacwipe /

3050B

Analyst MHB 159628-02/24/16 09:17 AM

Lead

(b) (6)

<10.0 µg/wipe

Reviewed By **Abisola Kasali**Metals Supervisor

10.0 µg/wipe



☐ Sample return requested ☐ Ambient temp ☐ Ice

* Temperature taken with IR Gun A. **Required.

SCHNEIDER LABORATORIES GLOBAL, INC.



2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

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www.slabinc.com e-mail: info@slabinc.com Submitting Co. Lab WO# Phone 816-230-5580 OCCU-TEC Inc Fax / Acct # 4151 N. Mulberry Drive, Suite 275 Email 3505 816-994-3470 / jayhurst@occutec.com **State of **Cert. ☐ Yes X No Collection Missouri Required Kansas City, MO 64116 105 L Goodfellow -Training Special instructions [include requests for special reporting or data packages] Project Name: Project Location: St. Louis, MO Project Number: 916029 PO Number: Turn Around Time (TAT) Matrix / Sample Type (Select ONE) Tests / Analytes (Select ALL that Apply) 2 hours* All samples on form should be of SAME matrix type. Use additional forms as needed. Asbestos in Air Asbestos in Bulk Metals-Total PLM ☐ Same day* t PCM (NIOSH 7400) X Lead ✓ Air 1 business day* † Solid RCRA Metals TEM (AHERA) PLM (Point Count) 2 business days* † Aqueous ☐ Waste TEM (EPA Level II) PLM (Qualitative only) TCLP ⊠ business days* † Bulk TCLP / Lead ☐ Wastewater NYELAP Miscellaneous Tests ☐ Hi-Vol Filter (PM10) ☐ Water, Drinking 5 business days* † TCLP / RCRA Metals ☐ Total Dust (NIOSH 0500) CAELAP (Point Count) * Not available for all tests ☐ Hi-Vol Filter (TSP) ☐ Compliance Resp. Dust (NIOSH 0600) TCLP / Full (w/ organics) 10 day TEM (Chatfield) **⊠**Wipe A job received past 3PM Silica - FTIR (NIOSH 7602) Microbiology † will begin its TAT the Paint Wipe, Composite Silica - XRD (NIOSH 7500) FOR ASBESTOS AIR: BACT (MPN & P/A) next business day Micro-Vac Dust ☐ Sludge Schedule rush organics, multi-TYPE OF RESPIRATOR Moid Direct Exam Other netals & weekend tests in ☐ Soil advance. USED: Time² Flow Rate³ Date Time Sample Identification Wiped pH/ Total⁴ Sampled** Sample # Sampled** (Employee, SSN, Blog, Material, Type1) Start Area (ft2) Temp * Stop Start. Аіг 1600 00 PbW-003 Rm 105 Top of Light PbW-004 1051-PbV-0012-1816 1600 Hallway Ceiling Tile 100 cm -002 100cm Room 105 Corpet 100cm Black -bou ν Type: A=Area B=Blank P=Personal E=Excursion 2Beginning/End of Sample Period 3Pump Calibration in Liters/Minute 4Volume in Liters [time in min × flow in L/min] All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Fall ure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of. Sampled by Sample Disposal Relinquished to lab by Return to Sender (Shipping fees) Disposal by lab NAME (b) (6) (\$50 fee for excessive weight) (b) (6) SIGNATURE (b) (6) Shipping Methods UPS USM 1700 DATE / TIME DATE / TIME HD HD

Chain-of-Custody documentation continued internally within lab Tern

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 27

4151 N. Mulberry D., Ste 275 Kansas City, MO 64116

randa dity, ind diffic

Attn:

Project: Goodfellow Building 105L

Location: St. Louis, MO **Number:** 916029

Order #: 159039

 Matrix
 Air

 Received
 02/17/16

Analyzed 02/17/16 **Reported** 02/18/16

PO Number:

Maniber.	010020					uiiibci.		
Sample ID	Cust. ID	Location	Date		Time	Fle	ow Volu	ıme
Parameter		Method		Total	! ! ! !	RL*	Conc.	8 Hr TWA
159039-001	105L-PbA-001	Column A14	02/12/16	5	165 mi	n 3.63	L/min 59	9 L
Lead		NIOSH 7082M		<2.00) µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3
159039-002	105L-PbA-002	Column C14	02/12/16	;	166 mi	n 3.34	L/min 55	4 L
Lead		NIOSH 7082M		<2.00) µg	2.00 µg	<3.61 µg/m3	<1.25 µg/m3
159039-003	105L-PbA-003	Column B9	02/12/16	;	166 mi	n 3.63	L/min 60	3 L
Lead		NIOSH 7082M		<2.00) µg	2.00 µg	<3.32 μg/m3	<1.15 µg/m3
159039-004	105L-PbA-004	Column D8	02/12/16	3	167 mi	n 3.63	L/min 60	6 L
Lead		NIOSH 7082M		<2.00) µg	2.00 µg	<3.30 µg/m3	<1.15 µg/m3
159039-005	105L-PbA-005	Column A2	02/12/16	3	165 mi	n 3.63	L/min 59	9 L
Lead		NIOSH 7082M		<2.00) µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3
159039-006	105L-PbA-006	Blank	02/12/16	5				
Lead		NIOSH 7082M	1 1 1	<2.00	μg	2.00 µg		

Analyst: OHE

159039-02/18/16 01:05 PM

(b) (6)

Reviewed By: **Abisola Kasali**Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter PEL

Lead $0.0500 \text{ mg/m}^3 [50.0 \text{ } \mu\text{g/m}^3]$

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com



Submitting Co.	CCU-TEC I	nc.		Lab WO#			Ph	one			-	
4151 N. Mulberry D	rive, Suite	275		Acct#	3505			ix/	-230-5580			
Kansas City, MO 64	-			**State of	3505		**c	ert.	994-3470 /		ting the party)m
	oodfellov	N Bui	ldia 1051	Collection			-80 5 1 80 1 1 2 1 5 0 0 8 m	uired		X No		
Project Location: St	-	- "	lding 1051	<u> </u>	Spec	ial Instruct	ions [inclu	de request	s for specia	I reporting o	r data pac	kagesj
Project Number: 91		VIO						_				<u> </u>
PO Number:	10029										<u> </u>	
The state of the s							-			ne jila	N	
Turn Around Time 2 hours*	(TAT)	1 1	ple Type (Select ONE)				ests / Anai	ytes (Selec	t ALL that A	(pply)	19 Apr 1	
Same day* †	<u></u>	All samples on natrix type. Use	form should be of SAME additional forms as need	ed.	Asbestos i		()	sbestos in	Bulk		Metals-Tota	al
1 business day* †		Air	Solid		(NIOSH 74 (AHERA)	00)	PLM		্বী	⊠ Lead		
2 business days* †		Aqueous	☐ Waste		(EPA Level	Ш	I	Point Coun	* · · ·	RCRA	/letals	
■ 3 business days* †		Bulk	— ☐ Wastewater		cellaneous	1000000	NYEL/	Qualitative	only)	☐ TCLP / I	TCLP	<u>Pathers to equal</u>
☐ 5 business days* †		Hi-Vol Filter (PM	10) 🔲 Water, Drinking	I '	Dust (NIOS		7	`` AP (Point C	(ount)	TCLP/		u4
* Not available for all test	ts 🔲	Hi-Vol F⊪ter (TSF	P) [Compliance	1.	Dust (NIC		TEM (11.	ouncy	TCLP/	and the second second second	100
A job received past 3P	i≡	₹".	☑ Wipe		- FTIR (NIC		<u></u>				licroblolog	all significan
next business day	1 .	Paint	Wipe, Composite	-	- XRD (NIC	SH 7500)	FOR	ASBEST(OS AIR:	□ BACT (N		
Schedule rush organics, retals & weekend test		Sludge	Micro-Vac Du	ıst	Other		TYPE OF	RESPIRA	ror .	☐ Mold Dir	4.1	
advance.		of a little on heart from the second		U			USED:					
Sample #	Date Sampled	Time Sampled*		dentification Bldg. Materia	l Tyne¹\ l	Wiped Area (ft²)	pH / Temp.*		Time ²		Rate ³	Total ⁴
1051-PbA-001	2/19/	16 0800	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	raca (it)	i remp.		Stop	Start	Stop	Air
		nu Programme F	Column	AIY				Oloc	1045	3.63	3,63	598.95
1051-P6A-002		有一种的复数形式的	Column	<u> </u>				0800	1046	3.63	3.05	554.4
1052-P6A-003	2/12/1	6 0801	Cotumn	89				0801	1047	3.43	3.63	602.58
1052-P6A-004	2/12/1	P 0805	Column	D8		-		0802			1.12	
105L-PBA-005	2/14/1	6 0805	Column	A2_		1 1		0802		3.63	3.63	606.21
156-P611-006			BLANK	31				0.802	10 30	3,03	3.63	598.9
15 C 1- PH 100			DLANK			7. 4		<u> </u>	ļ. · · · ·			
		A Company of the Comp						1				
											100	
								-				
				<u> </u>	1		<u> </u>					
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	** .							
[†] Type: A	=Area B=Bla and aqueous	nk P=Personal E=I	Excursion ² Beginning/End	of Sample Perio	d ³ Pump Ca	libration in L	iters/Minute	⁴ Volume In	Liters (time in	min × flow in	L/min]	
du	e to a lack of	sample quantity, wil	ent in adequate quantity for o I lead to a disclaimer on the	duplicate analysis report. All probler	to be perform n jobs withou	ned per EPA re t customer res	equirements. Ponse held o	Failure to pe ver 30 days v	rform a sample vill be voided a	duplicate ana nd disposed of	ysis,	
Samp	led by		Relinquish	ed to lab by					,	San	nple Dispo	
(1)	- lues		YAME JAY H	425T			17		6	Disposa		
.4ATURE (b) (6)			SIGNATURE (b) (6)			i de la La capación	(b) (C)				n excessive well	
PATE / TIME 2/15/	16/		DATE / TIME JK5	116 5.	00		(b) (6)			FX [ping Meth ⊒ ups □	A
I Sample return requ		Ambient temp	lce CI_			☑ Rece				□ HD [
Temperature taken with IR	Gun A *F	Required.	Chain-of-Custody document			$\overline{}$				E. VVD:	~*Z	





E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 22, 2016

Attention:

Jay Hurst

OCCU-TEC Inc.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2176OCCA.2

Goodfellow - Bldg 105L Project

OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 17, 2016. These samples represent the final clearance TEM samples for the Goodfellow - Bldg 105L Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the five (5) samples taken inside the work area are summarized in Table I. TEM sample analysis printouts are also attached. Please note that the average number of asbestos structures per square millimeter (s/mm²) is 15.2 s/mm², which is below the specified clearance level of 70 s/mm² (40CFR Part 763).

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Since: (b) (6)

> S. Dewayne Lear, B.S Laboratory Director



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow - Bldg 105L Project - OCC# 916029

McCall and Spero Project No: MSE-2176OCCA.2

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)	_
I01	105L-AA-001	NSD	NA	1328.25	0.0044	BDL (0.0044)*	BDL (15.2)*	1
I02	105L-AA-002	NSD	NA	1336.30	0.0044	BDL (0.0044)*	BDL (15.2)*	1
I03	105L-AA-003	NSD	NA	1336.30	0.0044	BDL (0.0044)*	BDL (15.2)*	l
I04	105L-AA-004	NSD	NA	1344.35	0.0044	BDL (0.0044)*	BDL (15.2)*	1
I05	105L-AA-005	NSD	NA	1328.25	0.0044	BDL (0.0044)*	BDL (15.2)*	_ 1
					Average	0.0044	15.2	

Filter Type: MCE
Filter diameter: 25mm

Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

CH = Chrysotile A = Amosite

BDL = Below Detectable Limit

F=Fiber B=Bundle C=Cluster

M=Matrix NSD=No Structures Detected

SAED=Selected Area Electron Diffraction EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter s/cc = asbestos structures per cubic centimeter

* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency

of the U.S. Government.

Laboratory Director:

(b) (6)		
	Date: 2 72 16	_
	•	



1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

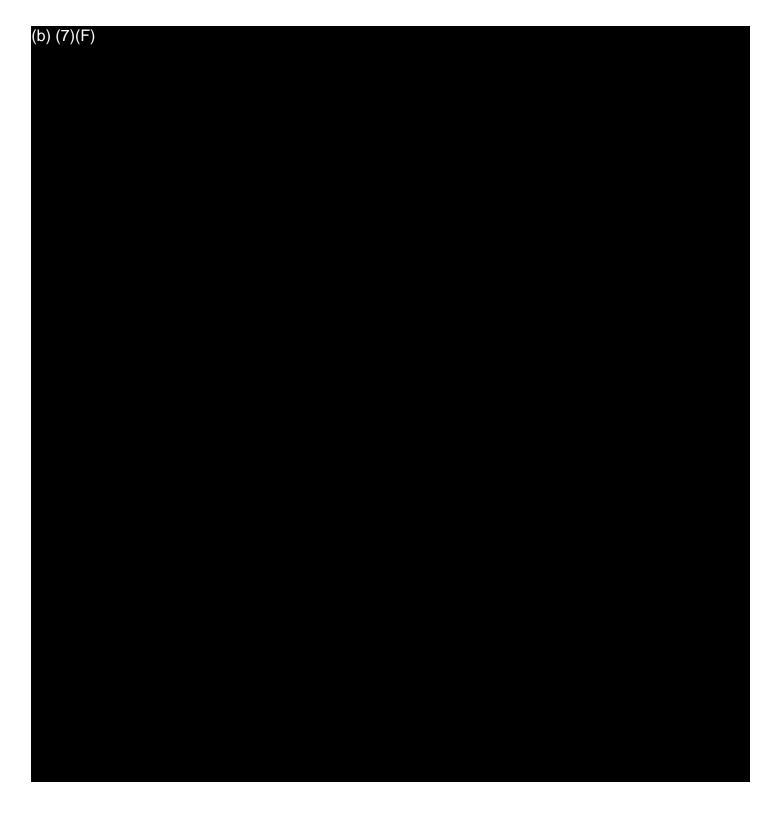
TEM AHERA CHAIN OF CUSTODY FORM

Company: O	CCU-TEC INC.	Telephone #:	816-231		ax #: 816-994-	3470
Contact: Jay	Hurst	_ Client Pro	ject Numbe	r: <u>9160</u>	29	
Relinquished by	: (b) (6)	_ Date:	2/15/201	6	Time: 5:00	pm
Written Report	To: jayhurst@occutec.com; jsmith@	occutec.c	com/		·	
Project Name:	Goodfellow Building 1051				······································	
Turn-Around Ti	ime: (Circle One) 4 Hour 6-8 Hour(same day)) 24 Hour	2/3 Day	4-5 Day W	eekend Rush Aft	er Hour Rush
				· · · · · · · · · · · · · · · · · · ·		
Edile Concern		. 1	4			
MSE Project #:	MSE-217(00CA.2 Comments	: Into	eCV			
Samples Receive		Date:	2/17/1	()	Time: 10:0	00120
	nalyzed by: TEM AHERA / EPA 40CER Pa	-	7 7			
	ed By: (b) (6)	Method:	Burdett	k Rood		
Samples Analyz		Date:	217	16		
		- -				
Client ID	Sample Leastion / Type	Start	Stop			
Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Time	Time	Total Time	e x Liters/Minute	= Volume
105L-AA-001	Column A-14	08:60	1045	165	8.05	1328.25
105L-AA-002	Column C-14	0800	1046	166	8.05	1336.3
105L-AA-003	Column B-9	0801	1047	166	8.05	1336.3
105L-AA-004	Column D-8	0802	1049	167	8.05	1344.35
105L-AA-005	Column A-2	0805	1050	165	8.05	1328.25
1052-AA.006	BLANK					
				· · ·		
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Results Trans	mitted/Date:	For	/Phone Br	/ :		
Results Trans	mmucu/Date.	rax	THOME D	·		

BUILDING 106

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDING 106								
	Asbestos TEM Air Samples								
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level					
106-AA-001	Northeast Men's Locker Room	<17.7	s/mm ²	70 s/mm ²					
106-AA-002	Northeast Break Area	<17.7	s/mm ²	70 s/mm ²					
106-AA-003	Blank		Not Analyzed						
	Lead Air Samples								
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level					
106-PbA-001	Northwest Guard Desk	<2.37	$\mu g/m^3$	30 μg/m ³					
106-PbA-002	Northeast Break Area	<2.38	$\mu g/m^3$	$30 \mu g/m^3$					
106-PbA-003	Blank	<2.00	μg	$30~\mu g/m^3$					
	Lead Surface Dust Wip	e Samples							
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level					
106-PbW-001	Mechanical Room Floor	5900	μg/ft ²	200 μg/ft ²					
	Lead Surface Dust Micro	-vac Samples							
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level					
N/A	N/A	N/A	$\mu g/ft^2$	200 μg/ft ²					



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE

PbW = LEAD WIPE SAMPLE

PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH
GOODFELLOW MO0626 (106) - 1st FLOOR	SUB. DATE: 03/04/16
CLIENT NAME:	
GENERAL SERVICES ADMINISTRATION	
PROJECT NAME:	─ SCALE: NTS
GOODFELLOW GS-P-16-16-GZ7025	916029

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159643

 Matrix
 Wipe

 Received
 02/23/16

 Analyzed
 02/23/16

Project Goodfellow Bldg 106

-Location St Louis, MO -Number 916029 **Reported** 02/23/16

Sample ID	Cust. Sample ID	Location	Sample Date				
Parameter		Method	Area	Total	Conc.	RL*	
159643-001	106-PbW-001	Mech Room Floor	02/16/16				
Lead		EPA 7000B / 3050B	1.00 ft2	5900 μg/wipe	5900 μg/ft2	250 μg/ft2	

Analyst IH

159643-02/23/16 08:11 PM

(b) (6)

Reviewed By Sultan Al-Johani

Metals Team Leader



Kansas City, MO 64116

Project Number: 916029

Turn Around Time (TAT)

OCCU-TEC Inc.

Goodfellow

4151 N. Mulberry Drive, Suite 275

Project Location: St. Louis, MO

Submitting Co.

Project Name:

PO Number:

SCHNEIDER LABORATORIES GLOBAL, INC.

159643

V:\159\159643

816-994-3470 / jayhurst@occutec.com

X No

Phone

Fax /

Email

**Cert.

Required

816-230-5580

Special Instructions [include requests for special reporting or data packages]

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com

06

Matrix / Sample Type (Select ONE)

Lab WO#

Acct#

**State of

3505

Collection Missouri

2 hours*		All	samples on for	m should be of SAME	Asbestos in	Air	Asbe	estos in Bu	<u>IK</u>	R1	etais- i otai		
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1 business day* †		⊠ Air		Solid	☐ TEM (AHERA)		PLM (Po	int Count)	ļ	RCRA M	etals		
☐ 2 business days* †		☐ Aqu	eous	☐ Waste	TEM (EPA Level	H)	PLM (Qu	alitative onl	y)		TCLP	<u> Maka a</u>	
X 3 business days* †		☐ Bulk			Miscellaneous	Tests	☐ NYELAP			TCLP / Lead			
☐ 5 business days* †		<u></u> Hi-∨	ol Filter (PM10) Mater, Drinking	☐ Total Dust (NIOS	H 0500)	☐ CAELAP	(Point Cou	nt)	☐ TCLP / RCRA Metals			
* Not available for all test	s	☐ Hi-V	ol Filter (TSP)	Compliance	Resp. Dust (NIO	SH 0600)	TEM (Ch	atfield)		TCLP / Full (w/ organics) 10 day			
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metals & weekend test	ts in	□ Soil		Sample Identification Wipo			USED:						
	l D	ate	Time	Sample Ide	ntification	Wiped	pH/	Ti	ne²	Flow	Rate ³	Total⁴	
Sample #		pled**	Sampled**			Area (ft²)	Temp *	Start	Stop	Start	Stop	Air	
106-P6W-001	2-1	6-16	1315	Mech Room	Floor	1 942					ļ		
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	pled I		ample quantity, m		ed to lab by						ample Disp	osal	
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SIGNATURÉ			.3./	SIGNATU	1 571		(b) (6)			Sh	ipping Met		
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☐ Sample return re	eques	ted 🔲 /	Ambient temp		R_S	1 1 1 1 1 1 1 1				WIS:	2	4	
* Temperature taken witt	h IR Gun	1 A. **R	lequired.	Chain-of-Custody documents	ation continued internally w	ithin lab.Terms						r	

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505) Address:

4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn: **Project:** Goodfellow-Building 106

-Location: St Louis, MO 916029 Number

Order #: 159040

Matrix Air

Received 02/17/16 Analyzed 02/17/16 Reported 02/18/16

PO Number

number.	910029			FU	Mullibel.			
Sample ID	Cust. ID	Location	Date	Tim	e	Flow	Volume	
Parameter		Method		Total	RL*	Conc.		8 Hr TWA
159040-001	106-PbA-001	NW Guard Desk	02/11/16	233	min 3.6	63 L/min	846 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 μί	g <2.37 µ	ıg/m3	<1.15 µg/m3
159040-002	106-PbA-002	NE Break Area	02/11/16	232	min 3.6	63 L/min	842 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 μί	g <2.38 µ	ıg/m3	<1.15 µg/m3
159040-003	106-PbA-003	Blank	02/11/16					
Lead		NIOSH 7082M		<2.00 µg	2.00 μς	g		

Analyst: OHE

159040-02/18/16 01:06 PM

b) (6)

Reviewed By: Abisola Kasali

Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter PEL

0.0500 mg/m³ [50.0 μg/m³] Lead

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

159040

V:\159\159040

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com

Submitting Co. OCCU-TEC Inc.	L	ab WO#			Phone	816-230	0-5580			
4151 N. Mulberry Drive, Suite 275		Acct#	505		Fax / Email	816-994	4-3470 / ja	ayhurst@oc	cutec.con	n
Kansas City, MO 64116	Č	State of	19 Lin 37 198		**Cert. Required		in the second second	⊠ No		
Project Name: Goodfellow Builds	ng 106 (10	6	Specia	Instruction	s [include re	quests fo	or special r	eporting or	data packa	ages]
Project Location: St. Louis, MO	3	-1				·		·		
Project Number: 916029							•			
PO Number:								•		
Turn Around Time (TAT) Matrix / Sample	Type (Select ONE)			Tes	ts / Analytes	(Select A	LL that Ap	ply)		
matrix type. Use add				1		tos in Bu			etais-Total	<u> </u>
Same day*†	□ Solid			·	_	Count\	`-		atale	
2 business days*† Aqueous	☐ Waste		•		_	•	l.	L KOTO CIW		
S business days*†	☐ Wastewater		15. 1 × × 1		_		1	TCLP / L		
☐ 5 business days* † ☐ Hi-Vol Filter (PM10)	☐ Water,Drinking	Total Du	ust (NIOSH	0500)	CAELAP (F	oint Cou	nt)	TCLP / R	CRA Metal	s
* Not available for all tests	Compliance		•		TEM (Chat	field)	\ <u> </u>	TCLP / F	uli (w/ organ	nics) 10 day
† will begin its TAT the	_ ` .	l	`	′ [-						/
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I material di constituent de la la la la la la la la la la la la la			Other						ot Exam	
Date Time	Sample Iden	tification		Wiped	pH /	Tir	ne²	Flow	Rate ³	Total⁴
Sample # Sampled** Sampled**	(Employee, SSN, Bldg	, Material,	Type ¹)	Area (ft²)	Temp *	Start	Stop	Start	Stop	Air
106-964-001 2/11/16 9:47	NORTHWEST (GUARD .	Desk			9.47	13:40	3,63	3.63	845.79
106-P6A-002 2/11/16 9:48	NORTHEAST F.	BREAK I	AREA			1:48	13:40	3.63	3.63	842.16
~003	Blank									
					• •					
			·							
	<u> </u>						,			
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¹Type: A=Area B=Blank P=Personal E=E	xcursion ² Bealnning/End of	Sample Perior	d ³ Pump Ca	libration in Li	ters/Minute 4Vo	olume in L	iters (time in	min × flow in	L/min1	<u> </u>
All soil and aqueous samples must be se	## Action Special Instructions Special In									
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JAY W. HURST	IAME THE LOS			1	1)		6 -			
ATURE (b) (6)	(b) (6) SIGNATURE				(b) (6)				or excessive we	
DATE / TIME 2/11/16/ 14:20	DATE / TIME & /15//	6 5:0	<u> ۱۳۵۵</u>		(b) (b)				□ups [□ D8	
☐ Sample return requested ☐ Ambient temp	☐ Ice Cl	r PK iS	R□S□X	▼ Rece						2



1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 22, 2016

Attention:

Jay Hurst

OCCU-TEC

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2176OCCA

Goodfellow Building 106 Project

OCC#916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 17, 2016. These samples represent the TEM samples for the Goodfellow Building 106 Project - OCC#916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the two (2) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely. (b) (6)

S. Dewayne Lear, B.S. Laboratory Director



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow Building 106 Project - OCC#916029

McCall and Spero Project No: MSE-2176OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc.	Conc. (s/mm²)	
I01	106-AA-001	NSD	NA	1867.6	0.0037	BDL (0.0037)*	BDL (17.7)*	1
102	106-AA-002	NSD	NA	1883.7	0.0036	BDL (0.0036)*	BDL (17.7)*	1

Filter Type: MCE

Filter diameter: 25mm

Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 6 Area Analyzed Per Sample: 0.0564mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

CH = Chrysotile

A = Amosite

C=Cluster

BDL = Below Detectable Limit

F=Fiber

B=Bundle

M=Matrix

NSD=No Structures Detected

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

Laboratory Director:

Date: 2 22 16

McCall and Spero Environmental, Inc.

^{*} Single fiber detection limits are used when no structures are detected.



1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: C	CCU-TEC INC.	Telephone #	816-23	1-5580 F	ax #: 816-994	-3470			
O ULLUA COL	y Hurst	_ Client Pr	oject Numb	er: <u>9160</u>	29				
Relinquished by	(b) (6)		2/15/	16	Time: 5	vo pm			
Written Report	Te: jayhurst@occutec.com; jsmith@	occutec.	com t		····				
Project Name:	Goodfellow Building 106		304	<u>4</u>					
Turn-Around T	ime: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour	(3 Day)	4-5 Day W	eekend Rush A	fter Hour Rush			
POSCOJETON	056028			-	* *	•			
MSE Project #: Samples Receiv	MSE- 217 (10CCA Comments		act 02/17/	1/0	Time: 10	:00 AM			
	analyzed by: TEM AHERA / EPX 40GFR Pa	-	02/11/	<u> </u>	1me: <u>10</u>	.0071- 7			
_	red By: (b) (6)	Method	Burdett	& Rood					
Samples Analyz		Date:	217	16		-			
Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	interview of the contract of t						
106-AA-601	NORTHERST MEN'S LOCKE ROOM	09:48	13:40	232	8.05	1867.6			
106-1717-002	NORTHEAST BREAK AREA	09:46	13:40	234	8.05	1883.7			
106-AA-00]	Black								
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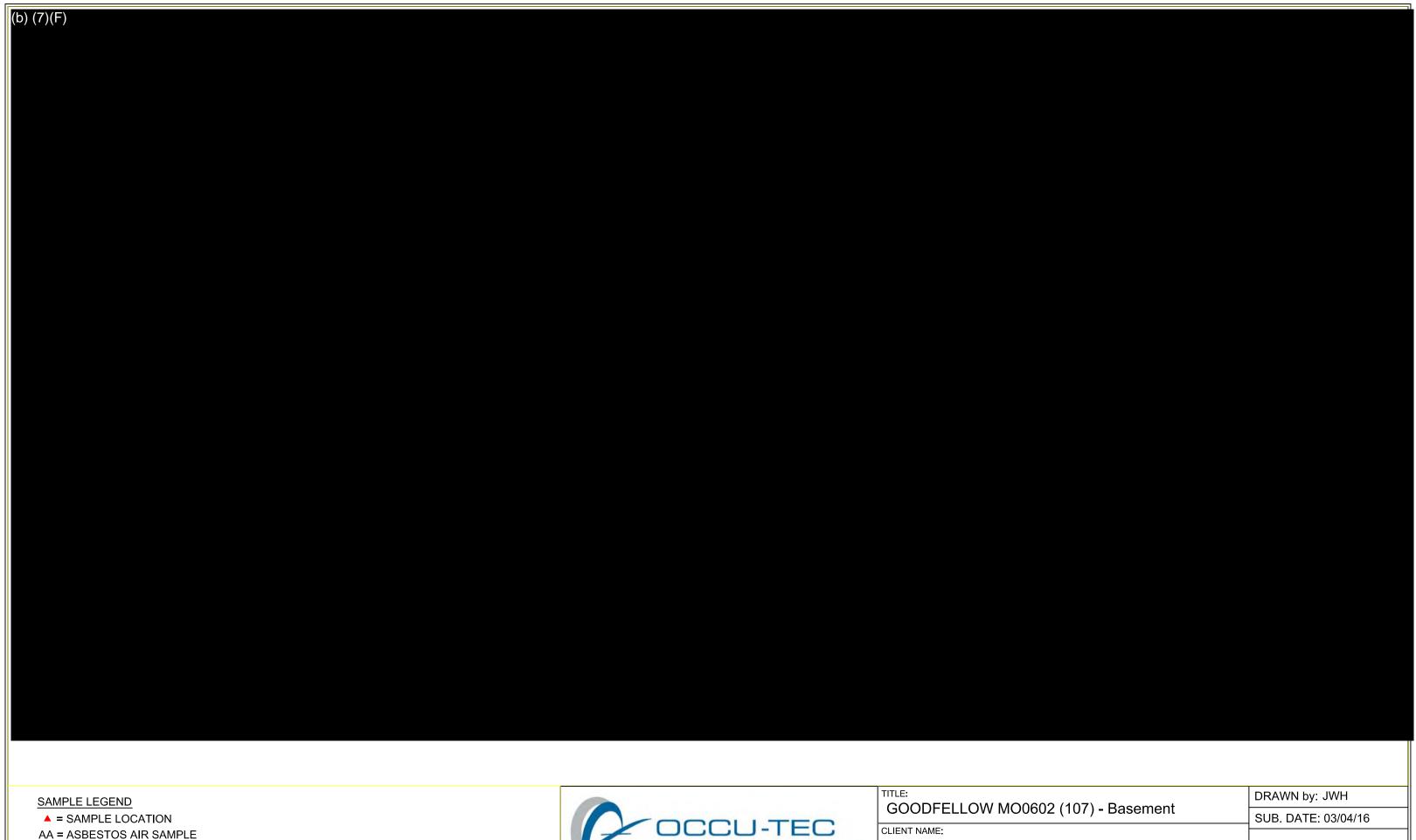
BUILDING 107

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDING 1	BUILDING 107									
	Asbestos TEM Air S	Samples									
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level							
107-AA-001	2nd Floor Column C-02	<15.2	s/mm ²	70 s/mm ²							
107-AA-002	2nd Floor Column A-07	<15.2	s/mm ²	70 s/mm ²							
107-AA-003	2nd Floor Column A-13	<15.2	s/mm ²	70 s/mm ²							
107-AA-004	1st Floor Column C-04	<15.2	s/mm ²	70 s/mm ²							
107-AA-005	1st Floor Column C-07	<15.2	s/mm ²	70 s/mm ²							
107-AA-006	1st Floor Column A-11	<15.2	s/mm ²	70 s/mm ²							
107-AA-007	1st Floor Column F-12	<15.2	s/mm ²	70 s/mm ²							
107-AA-008	Basement Column C-10	<15.2	s/mm ²	70 s/mm ²							
107-AA-009	Basement Column A-12	<15.2	s/mm ²	70 s/mm ²							
107-AA-010	Basement Column D-13	<15.2	s/mm ²	70 s/mm ²							
107-AA-011	Basement Column A-14	<15.2	s/mm ²	70 s/mm ²							
107-AA-012	Blank		Not Analyzed								
	Lead Air Samp	les									
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level							
107-PbA-001	2nd Floor Column C-02	<3.80	μg/m³	$30 \mu g/m^3$							
107-PbA-002	2nd Floor Column A-07	<4.05	μg/m³	$30 \mu g/m^3$							
107-PbA-003	2nd Floor Column A-13	<4.07	μg/m³	30 μg/m ³							
107-PbA-004	1st Floor Column C-04	<3.75	μg/m³	30 μg/m ³							
107-PbA-005	1st Floor Column C-07	<3.24	μg/m³	30 μg/m ³							
107-PbA-006	1st Floor Column A-11	<3.55	μg/m³	30 μg/m ³							
107-PbA-007	1st Floor Column F-12	<3.93	μg/m³	30 μg/m ³							
107-PbA-008	Basement Column C-10	<3.53	μ g/m ³	30 μg/m ³							
107-PbA-009	Basement Column A-12	<3.72	μg/m³	30 μg/m ³							
107-PbA-010	Basement Column D-13	<3.68	μ g/m ³	30 μg/m ³							
107-PbA-011	Basement Column A-14	<3.62	μg/m³	30 μg/m ³							
107-PbA-012	Blank	<2.00	μg	30 μg/m ³							

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDING	107		
	Lead Surface Dust W	ipe Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
107-PbW-001	2nd Floor Column C-01 Ceiling Joist	183	μg/ft²	200 μg/ft ²
107-PbW-002	2nd Floor Column F-06 Window Sill	<10	μg/ft²	200 μg/ft ²
107-PbW-003	2nd Floor Column A-08.5 Floor Tile	<10	μg/ft²	200 μg/ft ²
107-PbW-004	1st Floor Column A-11.5 Top of Light	<10	μg/ft²	200 μg/ft ²
107-PbW-005	1st Floor Column D-04 Top of Duct	<10	μg/ft²	200 μg/ft ²
107-PbW-006	1st Floor Column D-07.5 Top of Cabinet	<10	μg/ft²	200 μg/ft ²
107-PbW-007	Basement Top of Air Handler	12.4	μg/ft²	200 μg/ft ²
107-PbW-008	Basement Top of Transformer	16	μg/ft²	200 μg/ft ²
107-PbW-009	Blank	<10	μg	200 μg/ft ²
	Lead Surface Dust Mic	ro-vac Samples		
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
107-PbV-001	2nd Floor Column F-06 Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²
107-PbV-002	2nd Floor Column C-08 Cabinet	<92.9	μg/ft²	200 μg/ft ²
107-PbV-003	2nd Floor Column A-11 Carpet	<92.9	μg/ft²	200 μg/ft ²
107-PbV-004	1st Floor Column D-25 Carpet	<92.9	μg/ft²	200 μg/ft ²
107-PbV-005	1st Floor Concrete Floor	<92.9	μg/ft²	200 μg/ft ²
107-PbV-006	Tunnel Floor	<92.9	μg/ft²	200 μg/ft ²
107-PbV-007	Blank	<10	μg	200 μg/ft ²



PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE

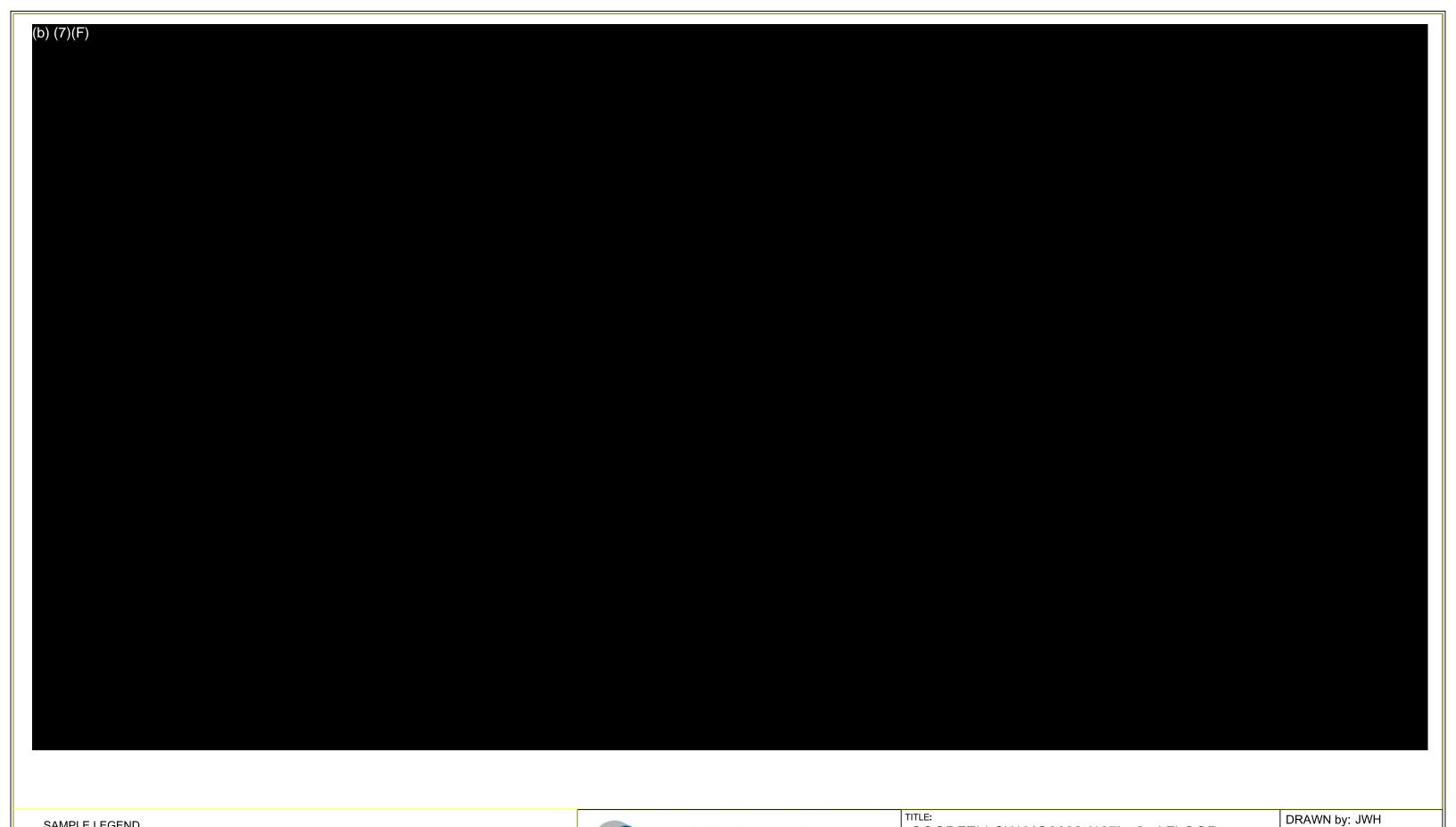
PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH			
GOODFELLOW MO0602 (107) - Basement	SUB. DATE: 03/04/16			
GENERAL SERVICES ADMINISTRATION				
PROJECT NAME:	SCALE: NTS			
11100001101000				

916029

GOODFELLOW GS-P-16-16-GZ7025



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE

PbW = LEAD WIPE SAMPLE

PbV = LEAD MICRO-VAC SAMPLE



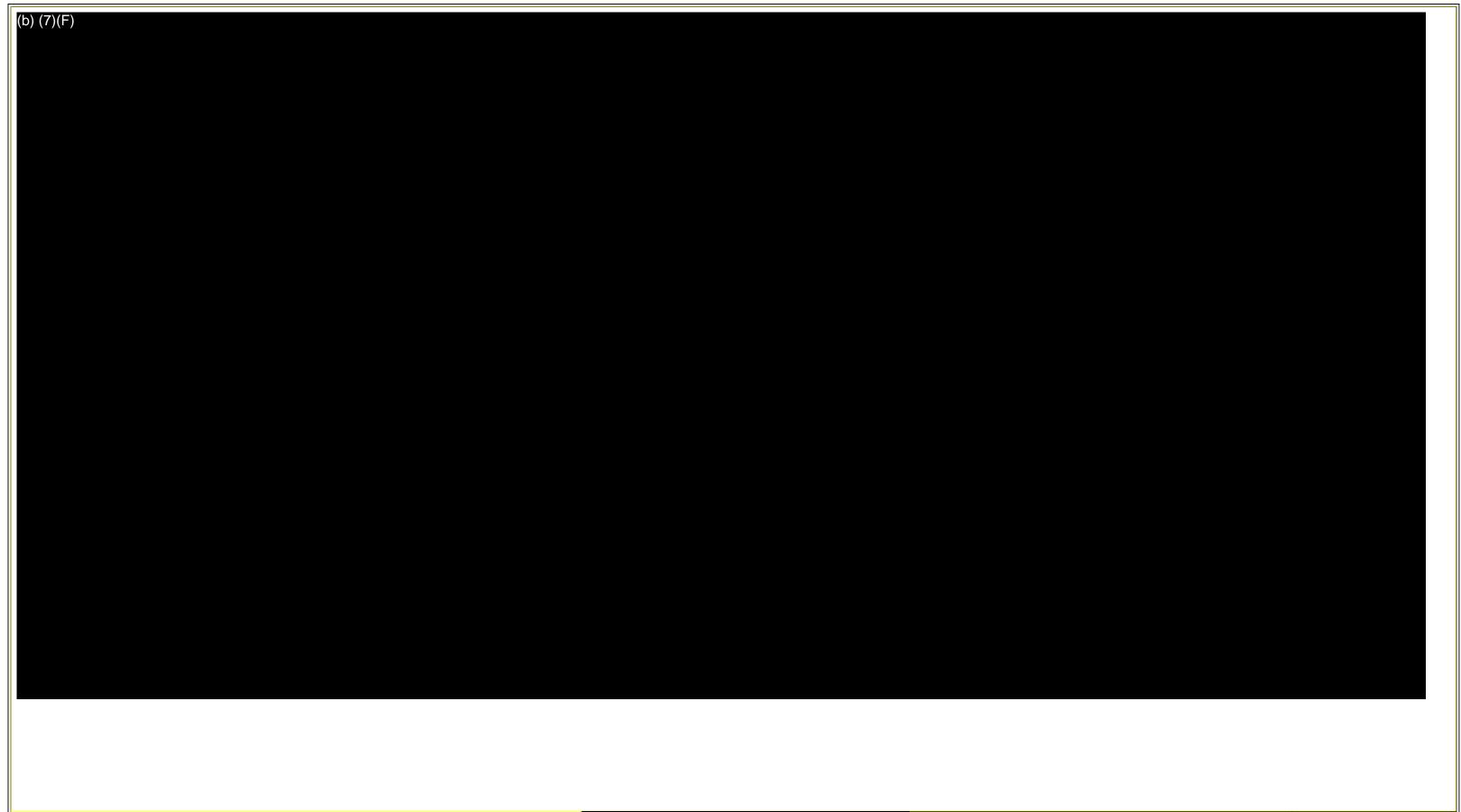
GOODFELLOW MO0602 (107) - 2nd FLOOR
CLIENT NAME:

SUB. DATE: 03/04/16

GENERAL SERVICES ADMINISTRATION

GOODFELLOW GS-P-16-16-GZ7025

SCALE: NTS 916029



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE

PbV = LEAD MICRO-VAC SAMPLE



III LE.	
GOODFELLOW MO0602 (107) - 1st FLOOR	

CLIENT NAME:

GENERAL SERVICES ADMINISTRATION

GOODFELLOW GS-P-16-16-GZ7025

DRAWN by: JWH

SUB. DATE: 03/04/16

SCALE: NTS

916029

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159630

 Matrix
 Wipe

 Received
 02/23/16

 Analyzed
 02/23/16

 Reported
 02/23/16

Project Goodfellow Bldg 107

107-PbV-005

1st Concrete

-Location St Louis, MO -Number 916029

 Sample ID
 Cust. Sample ID
 Location
 Sample Date

 Parameter
 Method
 Area
 Total
 Conc.
 RL*

 159630-001
 107-PbV-001
 2nd Fl Ceiling @ F6
 02/18/16

Lead EPA 7000B - Vacwipe / 3050B 0.108 ft2 <10.0 μg/wipe **<92.9 μg/ft2** 92.9 μg/ft2 **159630-002** 107-PbV-002 2nd Cabinet @ C8 02/18/16

Lead EPA 7000B - Vacwipe / 3050B 0.108 ft2 <10.0 μg/wipe **<92.9 μg/ft2** 92.9 μg/ft2 159630-003 107-PbV-003 2nd Carpet @ A11 02/18/16

Lead EPA 7000B - Vacwipe / 3050B 0.108 ft2 <10.0 μg/wipe **<92.9 μg/ft2** 92.9 μg/ft2 **159630-004** 107-PbV-004 1st Carpet @ D25 02/18/16

Lead EPA 7000B - Vacwipe / 3050B 0.108 ft2 <10.0 μg/wipe **<92.9 μg/ft2** 92.9 μg/ft2

Lead EPA 7000B - Vacwipe / 3050B 0.108 ft2 <10.0 μg/wipe **<92.9 μg/ft2** 92.9 μg/ft2

159630-006 107-PbV-006 Tunnel 1st Fl 02/18/16

Lead EPA 7000B - Vacwipe / 3050B 0.108 ft2 <10.0 μg/wipe <92.9 μg/ft2 92.9 μg/ft2

Lead EPA 7000B - Vacwipe / 3050B 0.108 ft2 <10.0 μg/wipe **<92.9 μg/ft2** 92.9 μg/ft2

159630-007 107-PbV-007 Blank 02/18/16

Lead EPA 7000B - Vacwipe / 3050B <10.0 μg/wipe 10.0 μg/wipe

Analyst MHB 159630-02/23/16 04:19 PM

159630-005

Reviewed By **Derek Jackson**Analyst

(b) (6)



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com



V:\159\159630

Submitting Co.	CU-TE	C Inc.			Lab WO#			Phone	816	230-5580					
4151 N. Mulberry Dr	rive, S	uite 275	5		Acct#	3505		Fax / Email		994-3470 /	iauhrrunt@a		:		
Kansas City, MO 64	1116				**State of Collection	N. W. Lewis		**Cert		☐ Yes	jayndrst@o ⊠ No	ccutec.cor			
		llow 🗜	2100	107			cial Instructio	z Al-E fraz tv. ₹nuego	grego (de la composición del composición de la composición de la composición de la composición del composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la com	e for enecial	roporting o	u data nask			
Project Location: St.								mo įmo uac	request	a ioi apeciai	reporting o	uata pack	añaal		
Project Number: 91		<u></u>	·		**										
PO Number:	<u> </u>		·		8			•							
Turn Around Time ((TAT)		Satriy / Samul	e Type (Select ONE)											
2 hours*				orm should be of SAME		Asbestos i	Y		s (Selecestos in	t ALL that A					
☐ Same day* †		<u>matrix</u>	x type. Use ac	lditional forms as needed.		(NIOSH 74		☐ PLM	in coles	DUIK	▼ Lead	<u>Metais-Tota</u>			
1 business day* †		⊠ Air	:	Solid	☐ TEM	(AHERA)		☐ PLM (Po	int Coun	e.C.		/letais			
2 business days* †		☐ Aqu	eous	☐ Waste	□ ТЕМ	(EPA Leve	l II)	☐ P£M (Qu		•		***	kages] als anics) 10 day		
■ 3 business days* †		☐ Bulk			Mis	scellaneou	s Tests	☐ NYELAP		•	☐ TCLP / I	TCLP / Lead TCLP / RCRA Metals TCLP / Full (w/ organics) 10 day			
☐ 5 business days* †		☐ Hi-V	ol Filter (PM10) 🔲 Water,Drinking	☐ Total	Dust (NIOS	SH 0500)	☐ CAELAP	(Point C	Count)	☐ TCLP / I	RCRA Metal	s		
* Not available for all test	ts	☐ Hi-V	of Filter (TSP)	Compliance	Resp	. Dust (NIC	OSH 0600)	TEM (Ch	atfield)				1		
A job received past 3Pt will begin its TAT the	M			☑ Wipe	☐ Silica	- FTIR (NI	OSH 7602)	□			2.00	/licrobiolog	1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 .		
next business day		Pain		Wipe, Composite	☐ Silica	- XRD (NIC	OSH 7500)	FOR AS	BEST	OS AIR:	☐ BACT (N				
Schedule rush organics, ~~~qtals & weekend test	4- 1-	Slud	W.	Micro-Vac Dust		Other		TYPE OF R	ESPIRA	TOR .	☐ Mold Dir	ect Exam			
advance	Day Court 1997	☐ _{Soil}			. 니			USED:	pa -						
Sample #	27 2 25 20 32 32 34	ate pled**	Time Sampled**	Sample Ide (Employee, SSN, Bld		al Tyne¹i	Wiped Area (ft²)	pH / Temp *	Start	Time ² Stop		Rate ³			
107-PbV-001	Z-1	8-16	ίγου	2-dfl Colon	T.1e 6	F6	100cm	Terrip	Starr	Stop	Start	Stop	Air		
	学等数据	M24(779) #1	A STATE OF THE STATE OF			• -							1 1		
-002		5 7 5 45 7 5		2nd Cohinet	-@C	8									
-003				2nd Cabinet	-@C	8									
				2nd Cabinet 2nd Carpet	0/	8									
-003				2nd Cabinet 2nd Carpet 1st Carpet	0 / 0 /	8 11									
-003 -004 -005				· Car past	@ C @ /4 @ I	8 11	at a		4						
-003 -004 -005 -606				1st Concret Tunnel 1st	@ C @ /- @ I E FI	8 11									
-003 -004 -005		J.		1st Concret	@ C @ / Q ! E	8 11			4						
-003 -004 -005 -606				1st Concret Tunnel 1st	@ C @ / @ I. FI	8 11									
-003 -004 -005 -606				1st Concret Tunnel 1st	@ C @ / Q ! F]	8 11									
-003 -004 -005 -606				1st Concret Tunnel 1st	@ C @ / @ I. FI	8 11									
-003 -004 -005 -606 -007	A=Area	B=Blank	P=Personal E=E	Ist Concret Tunnel 1st Blank Excursion Beginning/End of	Sample Per	iod ³ Pump (Calibration in L	iters/Minute 4	/olume i	n Liters [time in	n min x flow is	l min			
-003 -004 -005 -006 -007	vi and aq	ueous sar	mples must be se	1st Concret Tunnel 1st Blank	Sample Per	iod ³ Pump (Calibration in L	equipamonto 5	aitura ta e	arform a come	n min × flow i	n L/min]			
-003 -004 -005 -006 -007	vi and aq	ueous sar ack of san	mples must be se	Ist Concret Tunnel 1st Blank Secursion Beginning/End of an in adequate quantity for during the country for during the country for during the country for during the country for during the country for during the country for during the country for during the country for during the country for during the country for during the country for the countr	Sample Per ilicate analysion. All problem	iod ³ Pump (is to be perfo em jobs with	Calibration in L	equipamonto 5	aitura ta e	arform a come	n min × flow in le duplicate an and disposed to Sa	L/min] alysis, of. mple Dispo	osal		
-003 -004 -005 -006 -007	olled by	ueous sar ack of san	mples must be se nple quantity, will	Ist Concret Tunnel 1st Blank Scursion Beginning/End of our in adequate quantity for dup lead to a disclaimer on the rep	Sample Per ilicate analysion. All problem	iod ³ Pump (is to be perfo em jobs with	Calibration in L	equipamonto 5	aitura ta e	arform a come	n min × flow in le duplicate an and disposed to Sa	n L/min] alysis, of. mple Disperto Sender (osal		
-003 -004 -005 -006 -007	olled by	ueous sar ack of san	mples must be senple quantity, will	Ist Concret Tunnel 1st Blank Stank Excursion Beginning/End of the in adequate quantity for dup, lead to a disclaimer on the rep Relinquisher NAME LEX. (6)	Sample Per ilicate analysion. All problem	iod ³ Pump (is to be perfo em jobs with	Calibration in L med per EPA re ut customer res	equirements. F ponse held ove	aitura ta e	arform a come	n min × flow in le duplicate and disposed to Sa Return Dispos	n L/min] alysis, of. mple Dispo n to Sender (sal by lab for excessive we	OSAÍ Shipping fees)		
-003 -004 -005 -006 -007 'Type: J	olled by	ueous sar ack of san	mples must be se	Ist Concret Tunnel 1st Blank Blank Excursion Beginning/End of ent in adequate quantity for during lead to a disclaimer on the rep. Relinquisher NAME LAS SEGNATURE (b) (6)	Sample Per ilicate analysion. All probi	iod ³ Pump (is to be perfo em jobs witho	Calibration in L	equirements. F ponse held ove	aitura ta e	arform a come	n min × flow in le duplicate an and disposed to Sa	n Limin] alysis, of: mple Disport to Sender (sai by lab for excessive we ppring Metti	Osal Shipping fees)		
-003 -004 -005 -006 -007	ill and aq fue to a la pled by	ueous sar ack of sarr	mples must be senple quantity, will	Signature [st Concret Tunnal st Blank st st	Sample Per ilicate analysion. All problem	iod ³ Pump (is to be perfo em jobs with	Calibration in L. med per EPA result customer res	equirements. F ponse held ove	aitura ta e	arform a come	n min × flow is le duplicaté an and disposed t Return Dispos (\$50 fee Shi	n L/min] alysis, of. mple Dispo n to Sender (sal by lab for excessive we	Osal Shipping fees)		

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159629

 Matrix
 Wipe

 Received
 02/23/16

 Analyzed
 02/23/16

 Reported
 02/23/16

Project Goodfellow 107
Location St Louis MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159629-001	107-PbW-001	2nd FL Joist C1	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	183 µg/wipe	183 μg/ft2	10.0 μg/ft2
159629-002	107-PbW-002	2nd Window Sill F6	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159629-003	107-PbW-003	2nd Floor Tile A8.5	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159629-004	107-PbW-004	1st Top Light A11.5	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159629-005	107-PbW-005	1st Top Duct D4	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159629-006	107-PbW-006	1st Top Cabinet D7.5	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159629-007	107-PbW-007	Bsmt Air Handler	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	12.4 μg/wipe	12.4 µg/ft2	10.0 μg/ft2
159629-008	107-PbW-008	Bsmt Transformer	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	16.0 μg/wipe	16.0 μg/ft2	10.0 μg/ft2
159629-009	107-PbW-009	Blank	02/18/16			
Lead		EPA 7000B / 3050B		<10.0 µg/wipe		10.0 μg/wipe

Analyst MHB 159629-02/23/16 04:22 PM (b) (6)

Reviewed By **Derek Jackson**Analyst



SCHNEIDER LABORATORIES GLOBAL, INC.

159629

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com

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Submitting Co.	CCU-TE	EC Inc.			Lab WO#			Phone	816-230		. 44		
4151 N. Mulberry D	Prive, Sı	iite 275			Acct#	3505	·	Fax / Email	816-994	3470 🕌	ayhurst@oc	cutec.com	
Kansas City, MO 64116					**State of Collection	Missouri		""Cert. Required	Û	Yes	⊠ No		
Project Name: Goodfellow							al Instruction	s [include re	quests fo	special	reporting or	data packa	ges]
Project Location: St. Louis, MO											t. Fe		
Project Number: 916029										:			
PO Number:													
Turn Around Time (TAT) Matrix / Sample Type (Select ONE)							Tes	ts / Analytes	(Select Al	I that Δ	nolv)		
2 hours*		1		m should be of SAME		Asbestos in			tos in Bul		Metals-Total		
☐ Same day* †		matrix	type. Use add	ditional forms as needed.	PCM	1 (NIOSH 740	00)	PLM			⊠ Lead		
☐ 1 business day* †		⊠ Air		Solid	☐ TEM	(AHERA)	Į.	PLM (Poin	it Count)		☐ RCRA M	etals	
2 business days*	t	☐ Aque	eous	☐ Waste	☐ TEM	(EPA Level	11)	PLM (Qua	litative only	r)		TCLP	
☑ 3 business days*	†	☐ Bulk		☐ Wastewater	Mi	scellaneous	Tests	NYELAP			☐ TCLP / L	ead	
5 business days*	t	☐ Hi-V	oi Filter (PM10) Mater, Drinking	☐ Tota	l Dust (NIOS	H 0500)	CAELAP (Point Cour	ıt)	TCLP / R	CRA Metals	•
* Not available for all te	ests	□ Hi-V	oi Filter (TSP)	Compliance	Res	p. Dust (NIO	SH 0600)	TEM (Chatfield)			TCLP / Full (w/ organics) 10 day		
A job received past 3 † will begin its TAT the		Oil	(⊠ whoe	. !	a - FTIR (NIC	· · · · · · · · · · · · · · · ·	<u> </u>			Microbiology		
next business day		Pain		L Wipe, Composite IXI Micro-Vac Dust		a - XRD (NIC		FOR ASBESTOS AIR:			BACT (MPN & P/A)		
Schedule rush organic etals & weekend to		Slud	•	Micro-vac Dust	-	Other		TYPE OF RESPIRATOR			Mold Direct Exam		
advance.	GENOW.	Strategy and a strategy of	* 美名的 塩料 バルルカイ ***********************************		<u> </u>			USED:	Tin			Rate ³	
Sample #	Beauty 1999	ate ipled**	Time Sampled**	Sample Ide (Employee, SSN, Bk			Wiped Area (ft²)	pH / Temp *	Start	Stop	Start	Stop	Total⁴ Air
107-Pby2-00	, / Z-	18-16	1700	2ndFl Joist	at	CI	1 SF					·	
-002				2nd Window	, S.//	atF6					***		
-003				2nd Floor Til	e at	A8.5							
-004				1st Topofl	ight (DA11.5						:	
-005		V	V	1st Topof									,
-006				1st Topof (abinet	@ 07.9							
-007				Bont - Ari	40.dl	,,							
-008					nsfer	ares	\downarrow						
-009				Blank									
					,, ., .,								
				Excursion ² Beginning/End e ent in adequate quantity for di									
			mple quantity, wil	I lead to a disclaimer on the re	•	•	out customer re	sponse held av	er 30 days wi	il be voided		of. ample Disp	onal
	mpled	٠,		Relinquish	ed to lab	by		22	16		☐ Retur	n to Sender	
/	: Sm;	+6_		NAME				, 一 <u>)</u>			Dispo	sal by lab a for excessive w	
L ATURE (b)	(6)			SIGNATURE			(b	o) (6)				ipping Met	
DATE / TIME 2	-24	16 1	300	DATE / TIME							□ . FX	UPS [⊐usm
☐ Sample return * Temperature taken wi			mblent temp	☐ tce Cl Chain-of-Custody documents		R S S S S S S S S S S S S S S S S S S S	1			~	WB: _	ñ	

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn:

Project: Goodfellow 107
Location: St. Louis, MO
Number: 916029

Order #: 159038

 Matrix
 Air

 Received
 02/17/16

 Analyzed
 02/17/16

Reported 02/18/16

PO Number:

mannbon.	0.0020			. `	, italiiboi.				
Sample ID	Cust. ID	Location	Date	Tir	low Volume				
Parameter		Method		Total	RL*	Conc.	8 Hr TWA		
159038-001	107-PbA-001	2 FL Column C2	02/10/1	6 145	min 3.6	3 L/min 52	6 L		
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.80 µg/m3	<1.15 µg/m3		
159038-002	107-PbA-002	2 FL Column A7	02/10/1	6 142	? min 3.4	9 L/min 49	5 L		
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.05 µg/m3	<1.20 µg/m3		
159038-003	107-PbA-003	2 FL Column A13	02/10/1	6 141	min 3.4	9 L/min 49	1 L		
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.07 µg/m3	<1.20 µg/m3		
159038-004	107-PbA-004	1 FL Column C4	02/10/1	6 171	min 3.1	3 L/min 53	4 L		
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.75 µg/m3	<1.34 µg/m3		
159038-005	107-PbA-005	1 FL Column C7	02/10/1	6 170	min 3.6	3 L/min 61	7 L		
Lead		NIOSH 7082M	1	<2.00 µg	2.00 µg	<3.24 µg/m3	<1.15 µg/m3		
159038-006	107-PbA-006	1 FL Column A11	02/10/1	6 169	min 3.3	4 L/min 56	4 L		
Lead		NIOSH 7082M	1	<2.00 µg	2.00 µg	<3.55 µg/m3	<1.25 µg/m3		
159038-007	107-PbA-007	1 FL Column F12	02/10/1	6 163	3.1 min	3 L/min 50	9 L		
Lead		NIOSH 7082M	1	<2.00 µg	2.00 µg	<3.93 µg/m3	<1.34 µg/m3		
159038-008	107-PbA-008	Basement Column C10	02/10/1	6 170	min 3.3	4 L/min 56	8 L		
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.53 µg/m3	<1.25 µg/m3		
159038-009	107-PbA-009	Basement Column A12	02/10/1	6 172	? min 3.1	3 L/min 53	8 L		
Lead		NIOSH 7082M		<2.00 μg	2.00 µg	<3.72 μg/m3	<1.34 µg/m3		
159038-010	107-PbA-010	Basement Column D13	02/10/1	6 174	min 3.1	3 L/min 54	4 L		
Lead		NIOSH 7082M	1	<2.00 µg	2.00 µg	<3.68 µg/m3	<1.34 µg/m3		
159038-011	107-PbA-011	Basement Column A14	02/10/1	6 177	' min 3.1	3 L/min 55	3 L		
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.62 µg/m3	<1.34 µg/m3		
159038-012	107-PbA-012	Blank	02/10/1	6					
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	 	 		

Analyst: IH

159038-02/18/16 12:27 PM

(b) (6)

Reviewed By: **Abisola Kasali**Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter PEL

Lead $0.0500 \text{ mg/m}^3 [50.0 \text{ } \mu\text{g/m}^3]$

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.

Accrediting bodies: AIHA-LAP, LLC 100527
Page 1 of 1



SCHNEIDER LABORATORIES GLOBAL, INC.

159038

V:\159\159038

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com

Submitting Co.	OCCU-TEC Inc.							Phone	hone 816-230-5580						
4151 N. Mulberry Dri	ve, Suite	275			Acct#	3505		Fax / Email	816-994	l-3470 / i	ayhurst@oc	cutec.con	,		
Kansas City, MO 64116						Missouri		**Cert. Require] Yes	⊠ No				
Project Name: Goodfellow 107						Special Instructions [include requests for special reporting or data packages]									
Project Location: St. Louis, MO															
Project Number: 916029															
PO Number:															
Turn Around Time (TAT) Matrix / Sample Type (Select ONE)							Te	sts / Analyte	(Select A	LL that A	pply)				
2 hours*		All sa	amples on for yee. Use add	rm should be of SAME ditional forms as needed.		Asbestos in			stos in Bu	lk		letals-Total			
☐ Same day* † ☐ 1 business day* † . /		Air		☐ Solid	i I	I (NIOSH 740 (AHERA)	,	□ PLM □ PLM /Det	at Caucati	. 3	⊠ Lead				
2 business days* †		Agueo	nus	☐ Waste		(EPA Level		PLM (Poi		٧١	☐ RCRA M	TCLP			
3 business days* †		Buik		☐ Wastewater		scellaneous		NYELAP		"	TCLP/L				
☐ 5 business days* †		Hi-Vol	Filter (PM10)) 🏳 Water,Drinking	☐ Tota	Dust (NIOS	H 0500)	☐ CAELAP	(Point Cou	nt)	TCLP / R	CRA Metal	s		
* Not available for all tests	· 🗆	Hi-Voi	Filter (TSP)	Compliance	☐ Resp	o. Dust (NIO	SH 0600)	☐ TEM (Cha	atfield)		TCLP / Full (w/ organics) 10 day				
A job received past 3PN † will begin its TAT the		Oil	*	⊠ Wipe	Silica	a - FTIR (NIC	OSH 7602)	<u> </u>			Microbiology				
next business day	I.—	Paint	_	☐ Wipe, Composite ☑ Micro-Vac Dust		Silica - XRD (NIOSH 7500)			BESTOS		BACT (MPN & P/A)				
Schedule rush organics, multi- getals & weekend tests in advance.		3		-	Other	<u> </u>	TYPE OF RE	SPIRATO	R	Mold Direct Exam					
advance.	Date	at the section of	Time	Sample Ide	-17-	- 1"			Tiı	me ²	Flow Rate ³ Total ⁴				
Sample #	Sample		Sampled**	(Employee, SSN, Bl			Area (ft²)	pH / Temp *	Start	Stop	Start	Stop	Air		
107-PbA-001	2/10	lь	13:67	2ND Floor Co	lumn .	C2			13:57	16:22	3.63	3,53	5263		
107-PbA-002	_1		14:03	2ND Floor Co	lumn	A7			14:03	16:25	3.63	3.34	474.2		
107-PbA-003			14:07	2 ND Floor C	olumn	A13		94	14:07	16:28	3.63	3:34	47094		
107-P6A-004			14:30	1St Floor Co	dumn	C4			14:30	17.21	3.63	2.62	534.37		
107-PbA-005			14:39	1St Floor C	olumu	C7			14:39	7:29	3.63	3.63	617.10		
107-PbA-006			4:44	1st Floor (olumn	Au			14:44	17:33	3.63	3.05	564.46		
107-PbA-007			14:54	1st Floor C	olumn	FIZ	_		14:54	17:37	3.63	2.42	509.37		
107-PbA-008			15:20	Basement C	olumn	CID			15:20	18:10	3.63	3.05	567.8		
107-PbA-009	\/		15:20	BASEMENT (Colum	N A12			1520	19:12	3.63	2.62	537.5		
107-PbA-010	V	Blank Br	15:20	BASEMENE	Colum	n D13			15.20	1 (34	, ,	2.62	543.7		
All soi	i and aqued	ous samp	oles must be se	excursion ² Beginning/End of ent in adequate quantity for du lead to a disclaimer on the re	iplicate analy:	sis to be perfor	med per EPA r	equirements. F	ailure to pen	orm a samo	le duplicate ana	alvsis.			
	led by	- Camp	o quantity, this	Relinquishe			ar casomer res	sporise rielu ove	1 30 Gays W	ii be voided		mple Disp	osal		
JAV H	i Ť		,		LCT	-	1 2	2-1	1-1	6	Return	to Sender	Shipping fees)		
(b) (6)				GNATUR (b) (6)				(b) (6)		(\$50 fee	for excessive we	- '		
DATE / TIME 29 10	116			DATE / TIME 45/	16 5	:00 p*	-				₫ FX	pping Metl UPS DB			
☐ Sample return req] Amb	•	Chain of Custody documents	7,74	ROS		eive			WB:_	<u> Ž</u>	75		



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com

Submitting Co.	OCCU-TEC Inc.			Lab WO#			Phone	816-230-5580								
4151 N. Mulberry Drive, Suite 275				Acct#	3505		Fax / Email	816-994	-3470 / ia	yhurst@oo	cutec.com	1				
Kansas City, MO	-				**State of Collection	Missouri		**Gert. Required	□ Ves ☑ No							
Project Name:	Project Name: Goodfellow O 7						Special Instructions [include requests for special reporting or data packages]									
Project Location:	St. Loui	s, MO														
Project Number:	916029															
PO Number:																
Turn Around Tin	ne (TAT)	<u>n</u>	<i>l</i> atrix / Sample	Type (Select ONE)			Tes	ts / Analytes	(Select A	LL that Ap	ply)					
2 hours*		All matri	samples on fo	rm should be of SAME ditional forms as needed.	Í	Asbestos in			tos In Bu			<u>lletals-Total</u>	1			
☐ Same day* † ☐ 1 business day*	,,//	Air)	☐ Solid	1=	I (NIOSH 74) I (AHERA)	JO) ·	☐ PLM ☐ PLM (Poin	t Count)	13	☑ Lead ☑ RCRA M	letals	ļ			
2 business days		Aqu	eous	☐ Waste		(EPA Level	H)	☐ PLM (Qual	•	l-		TCLP				
🔀 3 business days	s* †	☐ Bull	ζ	Wastewater	Mi	scellaneous	Tests	NYELAP		. 1	TCLP/L	ead				
5 business days		_	•) Water, Drinking		I Dust (NIOS	,	CAELAP (· .	_	RCRA Metals				
* Not available for all A job received past			ol Filter (TSP)	☐ Compliance ☑ Wipe		o. Dust (NIC a - FTIR (NIC		☐ TEM (Chatfield)			TCLP / Full (w/ organics) 10 day					
† will begin its TAT the next business day		Pair	nt	☐ Wipe, Composite		a - XRD (NIC	´	FOR ASBESTOS AIR:			. Microbiology ☐ BACT (MPN & P/A)					
Schedule rush organ	Schedule rush organics, multi-		-	Micro-Vac Dust	_	Other		TYPE OF RE	SPIRATOR		Mold Direct Exam					
advance.			and a large of gar in one harden.	<u> </u>	_ □			USED:	401							
Sample #	6 . 25 . 33	ate pled**	Time Sampled**	Sample ide (Employee, SSN, Bid			Wiped Area (ft²)	pH / Temp *	Start	ne² Stop	Start	Rate ³ Stop	Total⁴ Air			
107-PbA-01	1 2/	10/16	15:20	BASEMENT (- plumi	s AIY		:	15.20	18:17	3.63	7.62	553.12			
107-PbA-01	12			RIO V						*						
I - I BH-O				DIALK			,									
	1.30									·						
											-					
				·	-1-10											
				 Excursion ² Beginning/End c												
<i></i>				ent in adequate quantity for du I lead to a disclaimer on the re												
Sa 	ampled I	y		Relinquishe	ed to lab l	by	-	> -15	7	/		ımple Dispo n to Sender ı				
JAY	Hue	ST		NAME Elay flu	RST				, (<u> </u>	Dispo		,,			
(O)	(6)			SIGNATURE ((b) (6)				o) (6)			_	ipping Metl	_			
DATE / TIME 2	10/1	6		DATE / TIME 2/15/	-6-	Dogm	1				₽ FX	☐ UPS ☐ DB	Liusm			
☐ Sample return * Temperature taken v			mbient temp guired.	Chain-of-Custody documental		R□S□ d internally with	$\overline{}$			ą.	WB:	7.S	5			



1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 22, 2016

Attention:

Jay Hurst

OCCU-TEC

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2176OCCA.4

Goodfellow- Bldg #107 Project

OCC#916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 17, 2016. These samples represent the TEM samples for the Goodfellow- Bldg #107 Project - OCC#916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eleven (11) samples are summarized in Tables I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely (b) (6)

> S. Dewayne Lear, B.S. TEM Laboratory Director



TABLE I

Inside Samples

Project Name: Goodfellow- Bldg #107 Project - OCC#916029

McCall and Spero Project No: MSE-2176OCCA.4

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I01	107-AA-001	NSD	NA	1435.68	0.0041	BDL (0.0041)*	BDL (15.2)*
I02	107-AA-002	NSD	NA	1445.65	0.0040	BDL (0.0040)*	BDL (15.2)*
103	107-AA-003	NSD	NA	1465.59	0.0040	BDL (0.0040)*	BDL (15.2)*
I04	107-AA-004	NSD	NA	1376.55	0.0043	BDL (0.0043)*	BDL (15.2)*
I05	107-AA-005	NSD	NA	1368.50	0.0043	BDL (0.0043)*	BDL (15.2)*
I06	107-AA-006	NSD	NA	1360.45	0.0043	BDL (0.0043)*	BDL (15.2)*
I07	107-AA-007	NSD	NA	1312.15	0.0045	BDL (0.0045)*	BDL (15.2)*
108	107-AA-008	NSD	NA	1368.50	0.0043	BDL (0.0043)*	BDL (15.2)*
109	107-AA-009	NSD	NA	1384.60	0.0042	BDL (0.0042)*	BDL (15.2)*
I10	107-AA-010	NSD	NA	1734.78	0.0034	BDL (0.0034)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable SAED=Selected Area Electron Diffraction

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

s/mm² - asbestos structures per square millimeter

EDS-Energy Dispersive Spectrometry

s/cc = asbestos structures per cubic centimeter * Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6) TEM Laboratory Director:

McCall and Spero Environmental, Inc.

TABLE II

Inside Samples

Project Name: Goodfellow- Bldg #107 Project - OCC#916029

McCall and Spero Project No: MSE-2176OCCA.4

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I11	107-AA-011	NSD	NA	1424.85	0.0041	BDL (0.0041)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6) TEM Laboratory Director:

^{*} Single fiber detection limits are used when no structures are detected.



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TEM AHERA CHAIN OF CUSTODY FORM

Company:	OCCU-TEC INC.	elephone #:	816-231	1-5580 Fax	_{k#:} 816-994-	3470
	ay Hurst	Client Pro	ject Numb	er: <u>91602</u>	9	
Relinquished	by: (b) (6)	Date: 🚅	15/16		Time: 5.02	pm
Written Repor	rt To: jayhurst@occutec.com ; jsmith@					
Project Name:	Goodfellow Blag # 107	- <u></u>				
Turn-Around	Time: (Circle One) 4 Hour 6-8 Hour(same day)	24 Hour	263 Day	4-5 Day Wee	kend Rush Af	ter Hour Rush
130 and 20 letter the		. 1	3 day	TAT	· · · ·	
MSE Project #	t: MSE-21740UA4 Comments		rol.			
	ived by: (b) (6)	Date: _	02/17/	10	Time: 105	ODAY _
Sample To Be	Analyzed by: TEM AHERA EPA 40CFR Pa	rt 763				
Samples Prep	ared By: (b) (6)	Method:	Burdett	& Rood		
Samples Anal	yzed By:	Date:	200	116		
<u> </u>						
Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time	x Liters/Minute	= Volume
107-AA-00	2-17 Cornidor at C-2	1357	1621	144	9.97	1435.68
-002	2ndFl Column A-7	1359	1624	145	9.97	1445.65
-003	2ndFl Column A-13	1401	1628	147	9.97	1465.59
-004	1st F1 - Calumn C4	1430	1721	171	8.05	1376,55
-005	1stFl- Column C-7	1439	1729	170	8.05	1368.5
-004	157F1- Column A-11	1444	1733	169	8.05	1360.45
-007	1st Fl- Column F-12	1454	1737	163	8.05	13/2.15
-008	BSMt - Column C-10	1520	1810	170	8.05	1368.5
-009		1520	1812	172	8.05	1384.6
-010	Sort William ST	1520	1814	174	9.97	1734.78
-011	Colland 1	1520	1817	177	8.05	B71424.8
-012	Black					
						_ ·
_						

Results Transmitted/Date: Fax/Phone By:

1 1

BUILIDNG 110

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

BUILDING 110									
	Asbestos TEM	Air Samples							
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level					
110-AA-001	2nd Floor Column L-12	<15.2	s/mm ²	70 s/mm ²					
110-AA-002	2nd Floor Column N-15	<15.2	s/mm ²	70 s/mm ²					
110-AA-003	2nd Floor Column G-14	<15.2	s/mm ²	70 s/mm ²					
110-AA-004	2nd Floor Column D-15	<15.2	s/mm ²	70 s/mm ²					
110-AA-005	2nd Floor Column E-11	<15.2	s/mm ²	70 s/mm ²					
110-AA-006	2nd Floor Column D-08	<15.2	s/mm ²	70 s/mm ²					
110-AA-007	2nd Floor Column E-05	<15.2	s/mm ²	70 s/mm ²					
110-AA-008	2nd Floor Column E-02	<15.2	s/mm ²	70 s/mm ²					
110-AA-009	2nd Floor Column H-03	<15.2	s/mm ²	70 s/mm ²					
110-AA-010	2nd Floor Column L-03	<15.2	s/mm ²	70 s/mm ²					
110-AA-011	2nd Floor Column F-05	<15.2	s/mm ²	70 s/mm ²					
110-AA-012	2nd Floor Column F-08	<15.2	s/mm ²	70 s/mm ²					
110-AA-013	1st Floor Column L-12	<15.2	s/mm ²	70 s/mm ²					
110-AA-014	1st Floor Column M-15	<15.2	s/mm ²	70 s/mm ²					
110-AA-015	1st Floor Column F-15	<15.2	s/mm ²	70 s/mm ²					
110-AA-016	1st Floor Column D-13	<15.2	s/mm ²	70 s/mm ²					
110-AA-017	1st Floor Column B-14	<15.2	s/mm ²	70 s/mm ²					
110-AA-018	1st Floor Column D-10	<15.2	s/mm ²	70 s/mm ²					
110-AA-019	1st Floor Column F-10	<15.2	s/mm ²	70 s/mm ²					
110-AA-020	1st Floor Column B-06	<15.2	s/mm ²	70 s/mm ²					
110-AA-021	1st Floor Column E-07	<15.2	s/mm ²	70 s/mm ²					
110-AA-022	1st Floor Column C-04	<15.2	s/mm ²	70 s/mm ²					
110-AA-023	1st Floor Column D-03	<15.2	s/mm ²	70 s/mm ²					
110-AA-024	1st Floor Column J-03	<15.2	s/mm ²	70 s/mm ²					
110-AA-025	Basement Column A-15	30.4	s/mm ²	70 s/mm ²					
110-AA-027	Basement Column D-14	<15.2	s/mm ²	70 s/mm ²					
110-AA-028	Basement Column D-10	15.2	s/mm ²	70 s/mm ²					
110-AA-029	Basement Column A-11	<15.2	s/mm ²	70 s/mm ²					
110-AA-030	Basement Column G-10	30.4	s/mm ²	70 s/mm ²					
110-AA-036	Blank	<10.6	s/mm ²	70 s/mm ²					

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

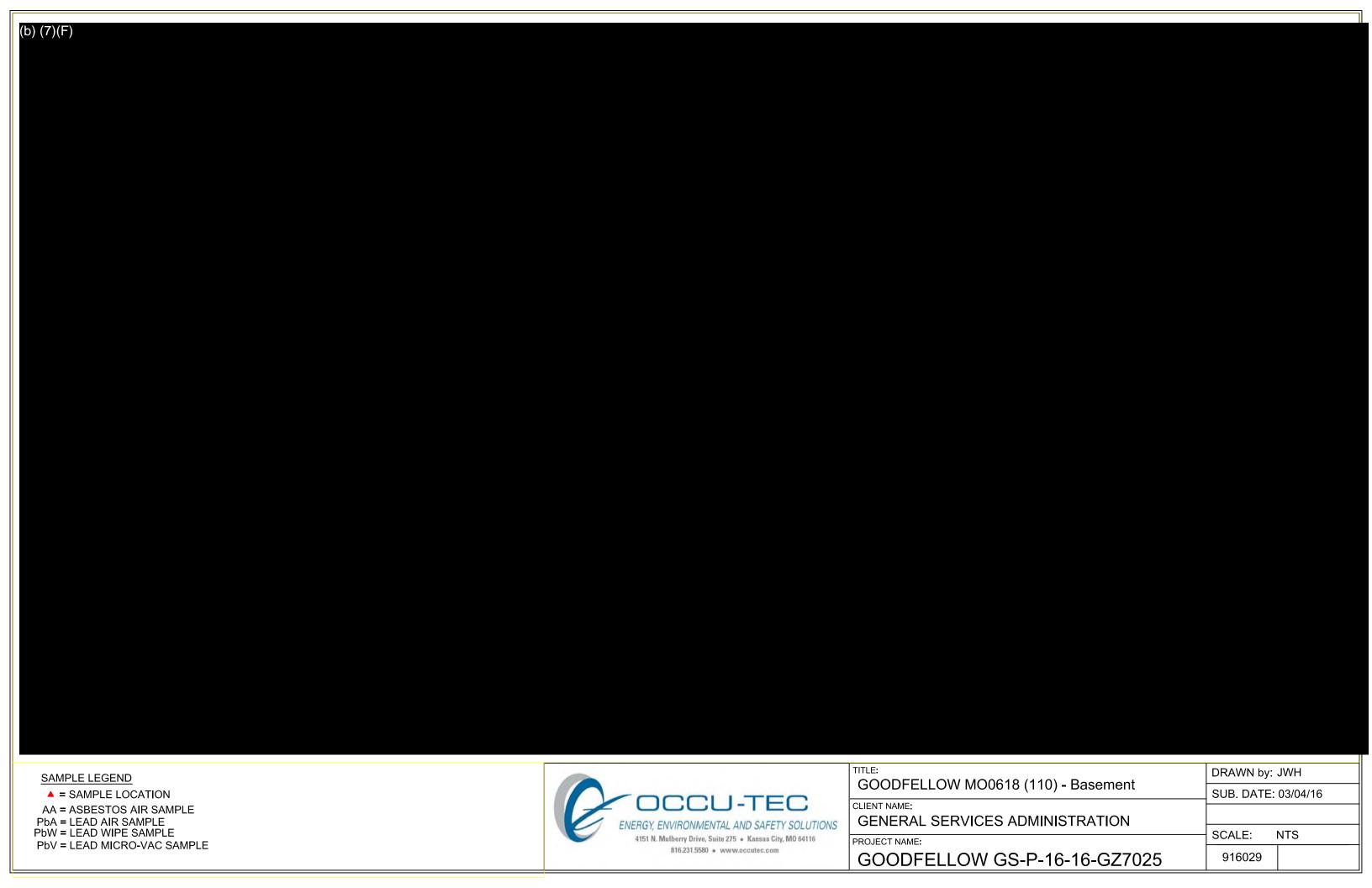
BUILDING 110									
	Lead Air	Samples							
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level					
110-PbA-001	2nd Floor Column L-12	<3.46	$\mu g/m^3$	$30 \mu g/m^3$					
110-PbA-002	2nd Floor Column N-15	<3.35	$\mu g/m^3$	$30 \mu g/m^3$					
110-PbA-003	2nd Floor Column G-14	<3.42	$\mu g/m^3$	$30 \mu g/m^3$					
110-PbA-004	2nd Floor Column D-15	<3.30	$\mu g/m^3$	$30 \mu g/m^3$					
110-PbA-005	2nd Floor Column E-11	<3.33	$\mu g/m^3$	$30 \mu g/m^3$					
110-PbA-006	2nd Floor Column D-08	<3.33	$\mu g/m^3$	$30 \mu g/m^3$					
110-PbA-007	2nd Floor Column E-05	<3.35	$\mu g/m^3$	$30 \mu g/m^3$					
110-PbA-008	2nd Floor Column E-02	<3.37	$\mu g/m^3$	30 μg/m ³					
110-PbA-009	2nd Floor Column H-03	<3.22	$\mu g/m^3$	30 μg/m ³					
110-PbA-010	2nd Floor Column L-03	<3.78	$\mu g/m^3$	30 μg/m ³					
110-PbA-011	2nd Floor Column F-05	<3.27	μg/m ³	30 μg/m ³					
110-PbA-012	2nd Floor Column F-08	<3.30	μg/m³	30 μg/m ³					
110-PbA-013	1st Floor Column L-12	<3.67	$\mu g/m^3$	30 μg/m ³					
110-PbA-014	1st Floor Column M-15	<3.71	$\mu g/m^3$	30 μg/m ³					
110-PbA-015	1st Floor Column F-15	<3.86	$\mu g/m^3$	30 μg/m ³					
110-PbA-016	1st Floor Column D-13	<3.79	μg/m³	30 μg/m ³					
110-PbA-017	1st Floor Column B-14	<3.88	$\mu g/m^3$	$30 \mu g/m^3$					
110-PbA-018	1st Floor Column D-10	<3.95	$\mu g/m^3$	30 μg/m ³					
110-PbA-019	1st Floor Column F-10	<3.82	$\mu g/m^3$	30 μg/m ³					
110-PbA-020	2nd Floor Column B-06	<4.88	μg/m³	30 μg/m ³					
110-PbA-021	1st Floor Column E-07	<4.39	$\mu g/m^3$	$30 \mu g/m^3$					
110-PbA-022	1st Floor Column C-04	<3.82	$\mu g/m^3$	30 μg/m ³					
110-PbA-023	1st Floor Column D-03	<3.88	$\mu g/m^3$	30 μg/m ³					
110-PbA-024	1st Floor Column J-03	<3.95	μg/m³	30 μg/m ³					
110-PbA-025	Basement Column A-15	<3.21	μg/m³	30 μg/m ³					
110-PbA-027	Basement Column D-14	<3.17	μg/m³	30 μg/m ³					
110-PbA-028	Basement Column D-10	<3.12	μg/m³	30 μg/m ³					
110-PbA-029	Basement Column A-11	<3.14	μg/m³	30 μg/m ³					
110-PbA-030	Basement Column G-10	<2.97	μg/m³	30 μg/m ³					
110-PbA-031	Blank	<2.00	μg	30 μg/m ³					

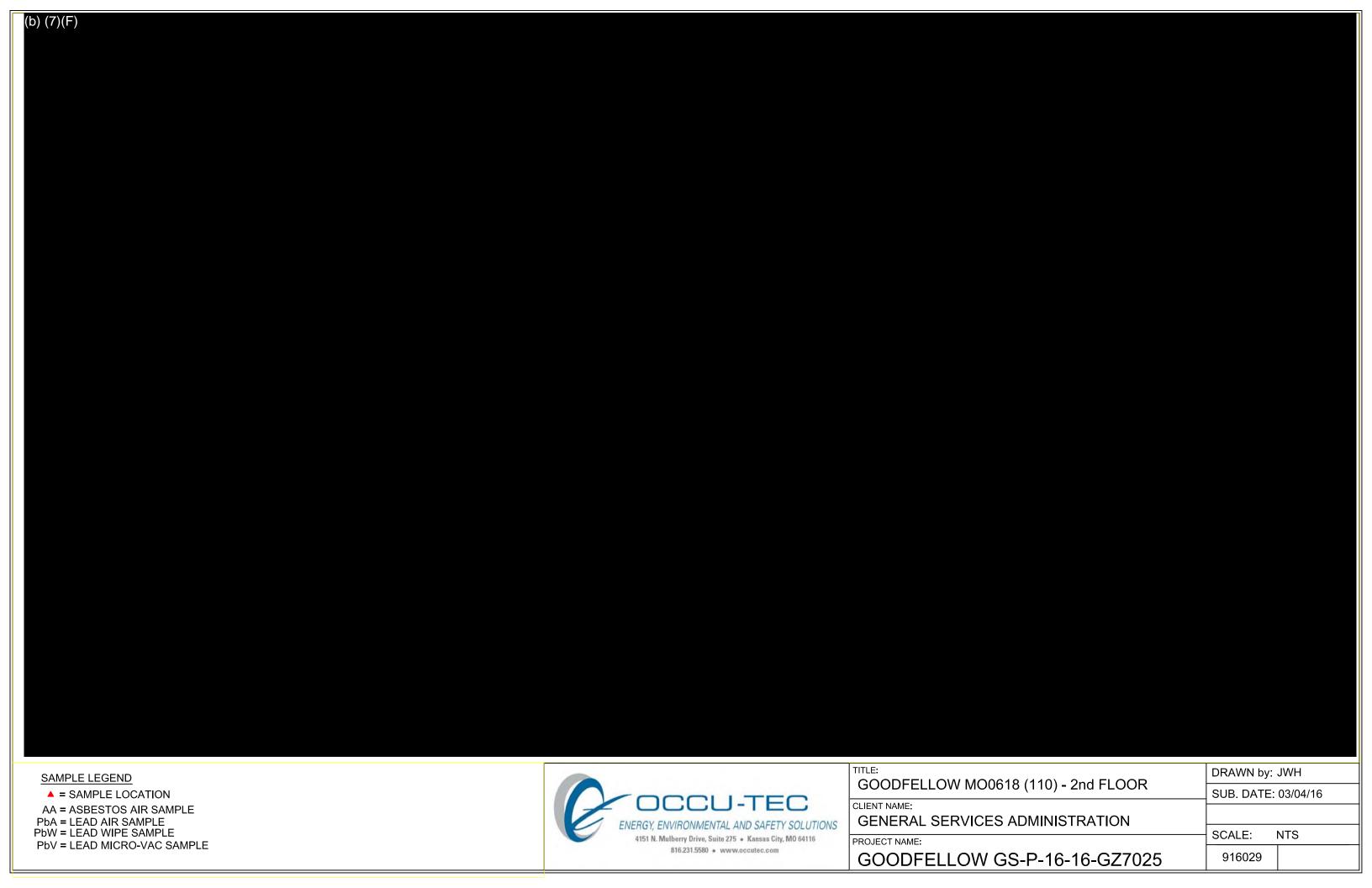
Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

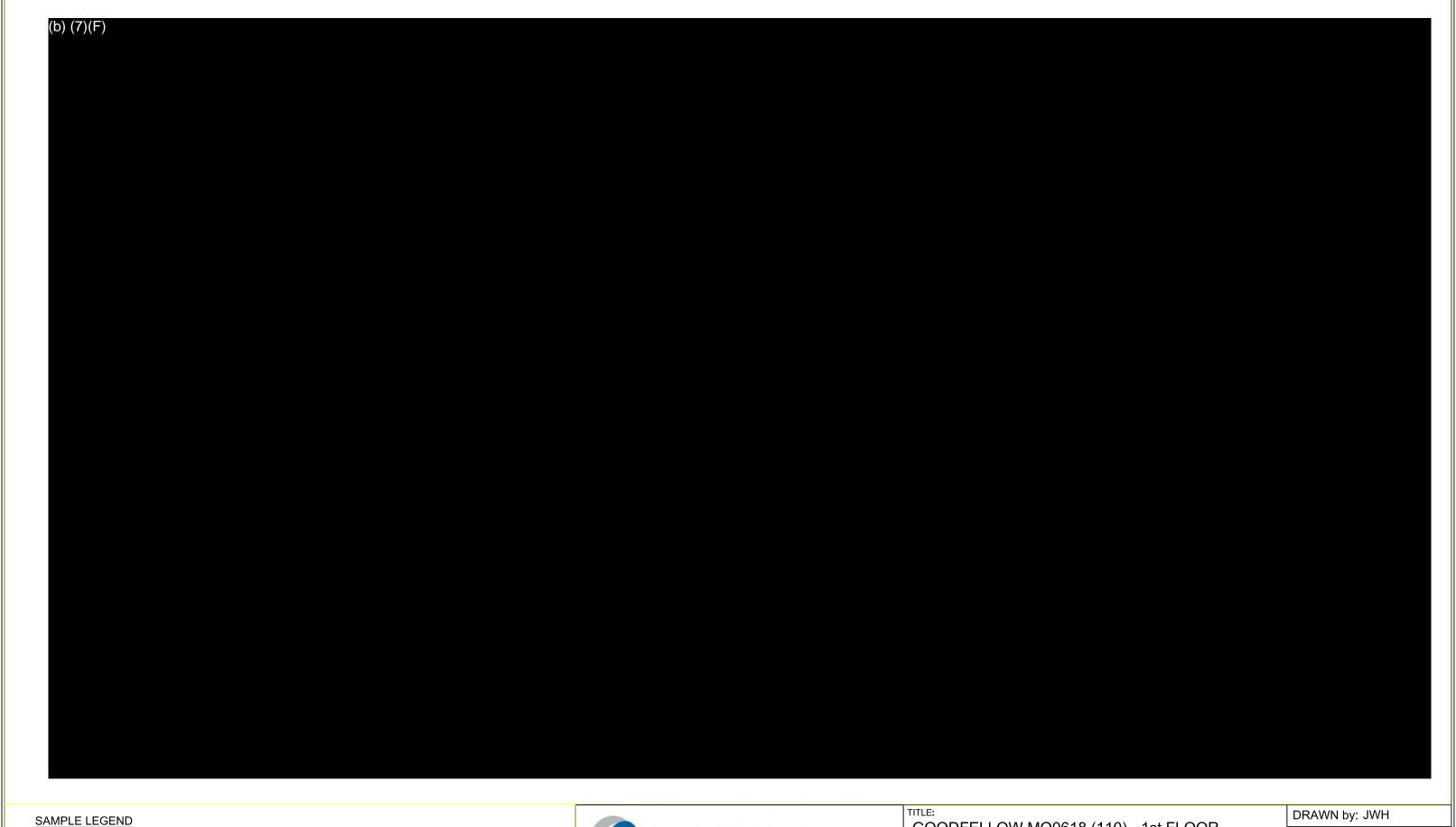
BUILDING 110										
Lead Surface Dust Wipe Samples										
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level						
110-PbW-001	2nd Floor Column D-15 Floor	<10	μg/ft²	200 μg/ft ²						
110-PbW-002	2nd Floor Column D-15 Closet Shelf	<10	μg/ft²	200 μg/ft ²						
110-PbW-003	2nd Floor Column C-03 Top of Light	68.1	μg/ft²	200 μg/ft ²						
110-PbW-004	2nd Floor Column C-03 Cabinet	<10	μg/ft²	200 μg/ft ²						
110-PbW-005	2nd Floor Column F-08 Shelf	<10	μg/ft²	200 μg/ft ²						
110-PbW-006	2nd Floor Column G-08 Window Sill	<10	μg/ft²	200 μg/ft ²						
110-PbW-007	1st Floor Column E-17 Transformer	173	μg/ft²	200 μg/ft ²						
110-PbW-008	1st Floor Column E-16 Top of Refrigerator	<10	μg/ft²	200 μg/ft ²						
110-PbW-009	1st Floor Column G-14 Top of Light	12.9	μg/ft²	200 μg/ft ²						
110-PbW-010	1st Floor Column W-10 Top of Cabinet	<10	μg/ft²	200 μg/ft ²						
110-PbW-011	1st Floor Column E-06 Warehouse Floor	73.5	μg/ft²	200 μg/ft ²						
110-PbW-012	1st floor - Column G 3 - Janitor Closet Floor	28.9	μg/ft²	200 μg/ft ²						
110-PbW-013	Basement Column C-04 Floor	813	μg/ft²	200 μg/ft ²						
110-PbW-014	Basement Column J-04 Duct	696	μg/ft²	200 μg/ft ²						
110-PbW-015	Basement Column G-11 Floor	364	μg/ft²	200 μg/ft ²						
110-PbW-016	Blank	<10	μg	200 μg/ft ²						
	Lead Surface Dust Micro	-vac Samples								
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level						
110-PbV-001	2nd Floor Column M-12 Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-002	2nd Floor Column D-15 Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-003	2nd Floor Column D-09 Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-004	2nd Floor Column F-02 Carpet	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-005	2nd Floor Column F-10 Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-006	2nd Floor Column F-10 Carpet	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-007	1st Floor Column E-17 Floor	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-008	1st Floor Column G-14 Carpet	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-009	1st Floor Column C-14 Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-010	1st Floor Column D-15 Elevator Tread	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-011	1st Floor - Column G 3 - Hallway Top of Ceiling Tile	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-012	1st Floor - Column G 2 - Stairwell Landing Floor	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-013	Basement - Column A.5 5 Bay Landing Floor	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-014	Basement Column M-05 Concrete Step	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-015	Basement Column D-10 Top of Pipe	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-016	Basement East Tunnel Floor	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-017	Basement Column M-17 Tank Room Brick Stair	<92.9	μg/ft²	200 μg/ft ²						
110-PbV-018	Basement West Tunnel Entrance Floor	8730	μg/ft²	200 μg/ft ²						
110-PbV-019	Blank	<10	μg	200 μg/ft ²						

 $[\]mu g/m^3$ = micrograms per cubic meter

 $[\]mu$ g/ft² = micrograms per square foot







▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH				
GOODFELLOW MO0618 (110) - 1st FLOOR	SUB. DATE: 03/04/16				
CLIENT NAME:					
GENERAL SERVICES ADMINISTRATION					
PROJECT NAME:	SCALE:	NTS			
	040000				
GOODFELLOW GS-P-16-16-GZ7025	916029				



Schneider Laboratories Global, Inc

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CustomerOCCU-TEC, INC. (3505)Address4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159786

 Matrix
 Wipe

 Received
 02/24/16

 Analyzed
 02/24/16

 Reported
 02/24/16

Project Goodfellow 110
Location St. Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter	Cust. Sample ID	Method	Area	Total	Conc.	RL*
159786-001	110-PbW-001	2nd D15 Floor	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159786-002	110-PbW-002	2nd D15 Closet Shelf	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159786-003	110-PbW-003	2nd C3 Light Fixture	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	68.1 μg/wipe	68.1 μg/ft2	10.0 μg/ft2
159786-004	110-PbW-004	2nd C3 Cabinet	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159786-005	110-PbW-005	2nd F8 Shelf	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159786-006	110-PbW-006	2nd G8 Window Sill	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159786-007	110-PbW-007	1st E17 Transformer	02/19/16			
Lead		EPA 7000B / 3050B	1.00 ft2	173 µg/wipe	173 μg/ft2	10.0 μg/ft2
159786-008	110-PbW-008	1st E16 Top Fridge	02/19/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159786-009	110-PbW-009	1st G14 Light Fixture	02/19/16			
Lead		EPA 7000B / 3050B	1.00 ft2	12.9 µg/wipe	12.9 µg/ft2	10.0 μg/ft2
159786-010	110-PbW-010	1st W10 Top Cabinet	02/19/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159786-011	110-PbW-011	1st E6 Warehouse Floor	02/19/16			
Lead		EPA 7000B / 3050B	1.00 ft2	73.5 µg/wipe	73.5 µg/ft2	10.0 μg/ft2
159786-012	110-PbW-012	1st Janitor Closet Floor	02/19/16			
Lead		EPA 7000B / 3050B	1.00 ft2	28.9 µg/wipe	28.9 μg/ft2	10.0 μg/ft2
159786-013	110-PbW-013	Basement L4 Floor	02/23/16			
Lead		EPA 7000B / 3050B	1.00 ft2	813 µg/wipe	813 µg/ft2	20.0 μg/ft2
159786-014	110-PbW-014	Basement J4 Duct	02/23/16			

Minimum Total Reporting Limit: 10.0 μ g/wipe. EPA Clearance Std: 40 μ g/ft² for floors, 250 μ g/ft² for interior window sills, and 400 μ g/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Schneider Laboratories Global, Inc

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Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159786

 Matrix
 Wipe

 Received
 02/24/16

 Analyzed
 02/24/16

 Reported
 02/24/16

Project Goodfellow 110
Location St. Louis, MO
Number 916029

Number	310023					
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
Lead		EPA 7000B / 3050B	1.00 ft2	696 µg/wipe	696 μg/ft2	20.0 μg/ft2
159786-015	110-PbW-015	Basement G11 Floor	02/23/16			
Lead		EPA 7000B / 3050B	1.00 ft2	364 µg/wipe	364 µg/ft2	10.0 μg/ft2
159786-016	110-PbW-016	Blank	02/23/16			
Lead		EPA 7000B / 3050B		<10.0 µg/wipe		10.0 μg/wipe

Analyst OHE 159786-02/24/16 04:21 PM (b) (6)

Reviewed By Eric Broaddus
Analyst

SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com



V:\159\159786

Project Location St. Louis, MO Project Number 916029 PO Number 916029 PO Number 916029 PO Number 916029 Po Number 9			·				_		!					,
Acces Satisfied Secretary Satisfied Secretary	Submitting Co.	OCCU-T	EC Inc.			Lab WO#			Phone	816-23	0-5580	1		
Second S	4151 N. Mulberry	y Drive, S	uite 27	5		Acct#	3505			1		jayhurst@oc	cutec.com	1
Project Location St. Louis, MO Project Number 916029 PO Number 916029 PO Number 916029 PO Number 916029 Po Number 9	Kansas City, MO	64116				**State of Collection	Missouri		46.3			1.00		
Project Location St. Louis, MO Project Number: 916029 Chumber: 916029 Chumber: 916029 Chumber: 1	Project Name:	Goodfe	llow)		Spec	ial Instruction	ons [include re	quests f	or special	reporting or	date pack	iges]
Dumber	Project Location:	tion: St. Louis, MO							······································		•			
Turn Around Time (TAT) A bear's A sample Type (Belect ONE)	Project Number:	916029		<u> </u>								······································		
2 hours All samples on form should be of SAME Abbestos in Air Abbestos in Bulk Medals Total	PO Number:									•	·····		. *	
Aphestos in Air Aphestos in Air Aphestos in Bulk Motate-Total		ne (TAT)		Vatrix / Sampl	e Type (Select ONE)			Te	sts / Analytes	(Select A	LL that A	(vlaa)		
Sample # Sample # Sund	2 hours*		A/	l samples on fo	rm should be of SAME		Asbestos i	· · · · · · · · · · · · · · · · · · ·					fetals-Total	
2 business days"	☐ Same day* †		(III gill)	x type. Ose ad	iditional forms as needed.	□ РСМ	(NIOSH 74	00)				1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·
2 business days*	1 business day	†	X Air		☐ Solid	☐ TEM	(AHERA)		PLM (Point	Count)		RCRA M	etals	
Studeness days*	2 business days	* †	☐ Aqu	eous	☐ Waste	☐ TEM	(EPA Level	H)	PLM (Qual	itative oni	y)			<u></u>
Not seelable for at tests A job newtond past 3FM Total P Fall (w) GSH 56600 A job newtond past 3FM Total P Fall (w) GSH 7600 A job newtond past 3FM Total P Fall (w) GSH 7600 Silica - FTIR (N)OSH 7600 Silica - FTIR (N)OSH 7600 Silica - FTIR (N)OSH 7600 Silica - FTIR (N)OSH 7600 Total P Fall (w) GSH 7600 Milerobiology Milerobiology Milerobiology Milerobiology Milerobiology Milerobiology Milerobiology FOR ASBESTOS AIR: DACT (MRN & FIR) Milerobiology Milerobiology Milerobiology Type OF RESPIRATOR USED: USED: USED: USED: USED: Total Time Sample # Sample Sample GSH Sample GSM Sample GSM Sample GSM Sample GSM Air 110 - 7844 - 001 ZnA - D15 - Floor 110 - 7844 - 002 ZnA - D15 - Closet Skelf 110 - 7844 - 002 ZnA - D15 - Closet Skelf 110 - 7844 - 002 ZnA - D15 - Closet Skelf 110 - 7844 - 007 ZnA - D15 - Floor 110 - 7844 - 007 ZnA - D15 - Floor 110 - 7844 - 007 ZnA - D15 - Floor 110 - 7844 - 007 ZnA - D15 - Floor 110 - 7844 - 007 ZnA - D15 - Floor 110 - 7844 - 007 ZnA - D15 - Floor 110 - 7844 - 007 ZnA - D15 - Floor 110 - 7844 - 007 ZnA - D15 - Floor 110 - 7844 - 007 ZnA - D15 - Floor 110 - 7844 - 007 ZnA - D15 - Floor 110 - 7844 - 007 ZnA - D15 - Floor 110 - 7844 - 007 ZnA - D15 - Floor 110 - 7844 - 007 ZnA - D15 - Floor 2nA - D1		5* †	☐ Bull	•		Mis	cellaneoue	Tests				☐ TCLP / L		
A job received past 3 shift A job received past 3 shift A loop r	5 business days	s* †	☐ Hi-/	oi Filter (PM10) Water Drinking	☐ Total	Dust (NIOS	SH 0500)	CAELAP (F	oint Cou	nt)	TCLP / F	CRA Metal	s
A job readword past 3PM Paint Silloga - FTIR (NIOSH 7802) Microbiology Paint Silloga - FTIR (NIOSH 7802) Silloga	* Not available for all	tests	☐ Hi-\	/ol Filter (TSP)	Compliance	Resp	. Dust (NiC	SH 0600)	TEM (Chat	field)	·	TCLP / F	uli (w/ orga	nics) 10 day
Peint Wine, Composite Silica - XRD (NIOSH 7500) FOR ASBESTOS AIR: BACT (MFN 8 P/A) Schedule rush organics, multi-software state in software Silica - XRD (NIOSH 7500) FOR RSBESTOS AIR: DACT (MFN 8 P/A) Mold Direct Exam Wine - Xerbox Soil Soil Soil Where Vise of Res Pirattor Wheel Wheel Time' Start Stop Air Time' Sample de Samplede* Start Stop Air Stop Air Stop Air Stop Air Stop Air Stop Start Stop Air Stop Air Stop Start Stop Air Stop Start Stop Air Stop Start Stop Start Stop Air Stop Start Stop Air Stop Start Stop Air Stop Start Stop Start Stop Air Stop Start Stop Start Stop Air Stop Start Start Stop Start Start Stop Start Stop Start Stop Start Start Stop Start Start Stop Start Start Stop Start Start Stop Start Start Stop Start Start Stop Start Start Start Start Start Start Start Start Start Start Start Start Start Start St			□ oii		☑ Wipe	☐ Silica	- FTIR (NIC			,				
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110-Phw-002 2nd - D15- (lose) Skelf 110-Phw-004 2nd - (3 - Light Fixture 1 2nd - (3 - Light Fixture 1 2nd - F7 - Skelf 110-Phw-004 2nd - F7 - Skelf 110-Phw-005 2nd - F7 - Skelf 110-Phw-005 2nd - F7 - Skelf 110-Phw-007 2nd - F7 - Skelf 110-Phw-007 2nd - F7 - Skelf 110-Phw-007 15t - E16 - ToP of Fridge 110-Phw-005 15t - G14 - Light Fixture 1 15t - W10-Top of Calbiration in Literalizate Volume in Litera (time in min × flow in Limin) All soil and supposes samples must be sent in adequate quantity for applicate analyses to be performed per EPA requirements. Fail use to performe a sample duplecte enalyses, due to a lack of sample quantity, will lead to a disclaimer on the disposal surfour loss without customer response head over 30 days will be volved and disposal of the content of the performance of the disposal posal in the content of the performance of the disposal posal posal posal posal posal	Sample #	San	pled**	Sampled**	(Employee, SSN, Bld	lg, Materia	I, Type¹)		_'	Start	Stop			
110-Phw-003 2 ^M - (3 - Light Fixther 2 ^M - (3 - Cabinet 2 ^M	110-76W-00	1 2/	\$		2nd - D15.	- Flo	٥٢							
10 - Phw - coc 2 15 5 68 7 10 10 10 10 10 10 10	110-26W-007			Marie de la companya de la companya de la companya de la companya de la companya de la companya de la companya	2nd - D15-	Closet	Shelf	1						
2 nd F7 - Shelf 2 nd F7 - Windows S.II 10 - Pbw - coc 2/14 15t	110-PSW-00	3			2nd - (3 -	Lint	ischwe	١		·				
10 - PbW - OOL 2 / 14 15	110-Pbw-00	4			2m- c3- (abire	1							
10 - PbW - 007 2/14 15t - F17 - Transformer 100 - PbW - 005 15t - 614 - Light fixture 101 - PbW - 005 15t - 614 - Light fixture 101 - PbW - 005 15t - 614 - Light fixture 101 - PbW - 005 15t - 614 - Light fixture 101 - PbW - 005 15t - 614 - Light fixture 101 - PbW - 005 15t - 614 - Light fixture 101 - PbW - 005 15t - 614 - Light fixture 101 - PbW - 005 15t - 614 - Light fixture 101 - PbW - 005 15t - 614 - Light fixture 101 - PbW - 005 15t - 614 - Light fixture 101 - PbW - 005 15t - 614 - Light fixture 15t	110 - Pbul-009	ś			2nd_ F7 - 0	Shelf		_						
10 - Pbw - 007 2/14 - F17 - Transforms	110-Pbw-00	6			2nd 68 -	Windo	ا ۱، ک می	١						
10 - PbW - 005	110-Pbw-00	7 2/	14		1sh - F17 -	Transf	erher	ı				-		
Type: A=Area B=Blank P=Personal E=Excursion *Beginning/End of Sample Period *Pump Calibration in Liters/Minute *Volume in Liters [time in min × flow in L/min] All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Fail ure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be volded and disposed of. Sampled by Relinquished to lab by NAME NAME SIGNATURE DISPOSAL Shipping Methods PACE TIME Z-Z-3-16 DATE / TIME Sample return requested Ambient temp Ice Ci DR SIX EF	110-Pbw-00	δ			151 - Elle -	2. 9.T	Frida							
Type: A=Area B=Blank P=Personal E=Excursion *Beginning/End of Sample Period *Pump Calibration in Liters/Minute *Volume in Liters [time in min × flow in L/min] All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Fail ure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be volded and disposed of. Sampled by Relinquished to lab by NAME NAME Signature (b) (6) Signature (b) (6) DATE / TIME Sample return requested Ambient temp Ice Ci DR SIX E F	110-76W-00	ç			15-614-	Light -	Reduc							
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Sampled by Relinquished to lab by NAME NAME SIGNATURE (b) (6) DATE / TIME Sample Disposal Return to Sender (shipping fees) Disposal by lab (\$50 (se for excessive weight)) Shipping Methods PATE / TIME Sample return requested Ambient temp Ice Ci DR S X E F	A	ıı son and a	queous sa	mpies must be se	int in adequate quantity for dur	dicate ensive	e to he nertor	med ser EDA s	and dimension of the	/		ala alcada ala ca	- k - '-	
NAME Sm., the Disposal by lab (\$50 fee for excessive weight) SIGNATURE (b) (6) DATE / TIME Z-Z-3-16 DATE / TIME Z-Z-3-16 Sample return requested Ambient temp Ice Ci DR S X E F			idon or dar	apo quantity, will	read to a discialmer on the rep	iort. Ali propi	em jobs witho	ut customer res	ponse held over	30 days w	m pe volded	and disposed	of.	osal
TURE (b) (6) SIGNATURE (b) (6) DATE / TIME 22316 Sample return requested Ambient temp	<u> </u>	$ u \subset$	1)	10	- (O 101) D	7] j	17	-24	/	5	Retur	n to Sender	
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Sample return requested Ambient temp lee CI DROSIX BEF	DATE / TIME	<u>Z</u> -	23-	16	DATE / TIME	25-1	6		/ ()			□ FX	UPS	
Temperature taken with IR Gun A. **Required Chein-of-Custody documentation continued internally writtin lab.Tem	Sample return	request	ed ☐ Ar A. **Red				ķ□s□:	X X F				WB:	2°	12

SCHNEIDER LABORATORIES GLOBAL, INC.

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Submitting Co.	OCCU-TI	EC Inc.			Lab WO#			Phon	e 81	A.23	D-5580			
4151 N. Mulberry	Drive. S	iuite 27	Ę		Acct#			Fax	1			 	,	
			<u> </u>		**State of	3505	**Cer		816-994-3470 / Jayhurst@occutec.com					
Kansas City, MO	64116				Collection	Missouri		Requir] Yes	⊠ No		
Project Name:	Goodfe	llow)		Spec	ial Instructio	ns (include	reque	ests fo	or special	reporting o	r data packa	ges]
Project Location:	St. Lou	is, MO)											
Project Number:	16029									-				
PO Number:														
Turn Around Tim	e (TAT)	T .	Matrix / Sample	Type (Select ONE)	T									
2 hours*		Al	l samples on fo	rm should be of SAME		Asbestos i		sts / Analyte				[
Same day* †				ditional forms as needed.		(NIOSH 74		PLM	est <u>os</u>	in Bu	iK .	∑ Lead	fletals-Total	
☐1 business day*†				Solid	TEM	(AHERA)	·	PLM (Po	int Co	unt)		☐ RCRA W	letals	
2 business days*† Aqueous			☐ Waste	☐ TEM	(EPA Level	'II)	PLM (QL	alitati	ve onl	y)		TCLP		
· · - 			Wastewater	Mis	cellaneou	s Tests	NYELAP	1			TCLP/L	ead		
5 business days* † Hi-Vol Filter (PM10) W					☐ Total	Dust (NIOS	SH 0500)	CAELAP	(Poin	ıt Cou	nt)	TCLP / F	RCRA Metais	;
				<u> </u>		. Dust (NIC		TEM (CH	atfield	i)		TCLP / F	ull (w/ organ	liCS) 10 day
A job received past † will begin its TAT the		Oil Disco		⊠ Wipe	!	- FTIR (Ni	· •		- 				licrobiology	
next business day Paint Schedule rush organics, multi-				☐ Wipe, Composite Micro-Vac Dust	☐ Silica	- XRD (NIC	OSH 7500)	FOR A				BACT (N		
netals & weekend		□ _{Sell}				Other		TYPE OF RESPIRATOR			R	☐ Mold Direct Exam		
, j <u> </u>	D	ate	Time	Sample Ider	<u> </u>		Wiped	USED:		Tir	ne ²		Rate ³	
Sample #	Sam	pled**	Sampled**	(Employee, SSN, Bld		I, Type¹)	Area (ft²)	pH / Temp *	St	art	Stop	Start	Stop	Total ⁴ Air
110-5PM-01	1 2	19		1st = E/2 - 1	ما ہے مل	ouse flo	(
		1		. 	<u> </u>	10	4				·			
110-000-017	1.72	<u>'</u>		1 - Janto	or Cla	ied Floc	<u> </u>					<u> </u>		
110-PbW-013	3 2/	23		Basement - L	4-F	loor	•							
110-Phw-014				Busement - J	4- Du	et.)							
110-26W-015	<u>, </u>			Barenent-611	- Flo	ъФ.С	1							
110-5PM-016		_		Blank			-					~	_)
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<u> </u>														
	1													
			· · · · · · · · · · · · · · · · · · ·						<u>-</u>					
¹ Typ	e: A≔Area	B≖Blank	P=Personal E=E)	xcursion ² Beginning/End of	Sample Perl	od ³ Pump C	alibration in Li	ters/Minute 4	/o.lum	ne in Li	ters Itime i	n min x flow is	n L/min1	<u> </u>
	ANII DIIL DE	LUGUUS SE	mulus must on set	nt in adequate quantity for dupli lead to a disclaimer on the repo	licato anchesi	a ta ba aanta.				$\overline{}$				
Sar	npied b			Relinquished			1 10010111011100	polise rigit ove		aya w		Sa	mple Disp	osal
v Jeff	<u>: S</u>	mit	(_N	IAME JAF	7		-	> - 2	21/	1	1	Return	n to Sender a	(Shipping fees)
TURE (b)	(6)			(b) (6)			/ ₂ \	(6)	7		O	(\$50 fee	for excessive we	elght)
DATE / TIME 2/2-23-) 6 DATE / TIME 7/2:					16.	X///	(D)	(6)				Shi	ipping Metl	
				7 7		800							UPS DB	LIUSM A
☑ Sample return r * Temperature taken wit	h IR Gun A	a⊔ Ar l. **Req		lce ClChein-of-Custody documentatio		R S S□) internally with		a continuons era	ye z			(WB:)	56/3	<u>/</u>



Schneider Laboratories Global, Inc

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Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn:

Project: Goodfellow Fed Center Bldg 110

-Location: St Louis, MO -Number: 916029 **Order #:** 159785

 Matrix
 Air

 Received
 02/24/16

 Analyzed
 02/24/16

 Reported
 02/25/16

PO Number:

Number:	916029			PO	Nur	nber:				
Sample ID	Cust. ID	Location	Date	Tim	ne	Fl	ow	Vol	ume	
Parameter		Method		Total		RL*		Conc.		8 Hr TWA
159785-001	110-PbA-01	2nd FL L12	02/18/16	190	min	3.05	L/min	58	0 L	
Lead		NIOSH 7082M		<2.00 µg		2.00 µg		<3.46 µg/m3	 	<1.37 µg/m3
159785-002	110-PbA-02	2nd FL N15	02/18/16	196	min	3.05	L/min	59	8 L	
Lead		NIOSH 7082M	 	<2.00 µg		2.00 µg		<3.35 µg/m3	 	<1.37 µg/m3
159785-003	110-PbA-03	2nd FL G14	02/18/16	192	min	3.05	L/min	58	6 L	
Lead		NIOSH 7082M		<2.00 µg		2.00 µg		<3.42 µg/m3	 	<1.37 µg/m3
159785-004	110-PbA-04	2nd FL D15	02/18/16	199	min	3.05	L/min	60	7 L	
Lead		NIOSH 7082M		<2.00 µg		2.00 µg		<3.30 µg/m3	1 1 1	<1.37 µg/m3
159785-005	110-PbA-05	2nd FL E11	02/18/16	197	min	3.05	L/min	60	1 L	
Lead		NIOSH 7082M	 	<2.00 µg		2.00 µg		<3.33 µg/m3	 	<1.37 µg/m3
159785-006	110-PbA-06	2nd FL D8	02/18/16	197	min	3.05	L/min	60	1 L	
Lead		NIOSH 7082M	 	<2.00 µg		2.00 µg		<3.33 µg/m3	! ! !	<1.37 µg/m3
159785-007	110-PbA-07	2nd FL E5	02/18/16	196	min	3.05	L/min	59	8 L	
Lead		NIOSH 7082M	!	<2.00 µg		2.00 µg		<3.35 µg/m3	! ! !	<1.37 µg/m3
159785-008	110-PbA-08	2nd FL E2	02/18/16	195	min	3.05	L/min	59	5 L	
Lead		NIOSH 7082M	!	<2.00 µg		2.00 µg		<3.37 µg/m3	! ! !	<1.37 µg/m3
159785-009	110-PbA-09	2nd FL H3	02/18/16	204	min	3.05	L/min	62	2 L	
Lead		NIOSH 7082M	!	<2.00 µg		2.00 µg		<3.22 μg/m3	! ! !	<1.37 µg/m3
159785-010	110-PbA-10	2nd FL L3	02/18/16	202	min	2.62	L/min	52	9 L	
Lead		NIOSH 7082M	 	<2.00 µg		2.00 µg		<3.78 µg/m3	! ! !	<1.59 µg/m3
159785-011	110-PbA-11	2nd FL F5	02/18/16	201	min	3.05	L/min	61	3 L	
Lead		NIOSH 7082M		<2.00 µg		2.00 µg		<3.27 µg/m3	 	<1.37 µg/m3
159785-012	110-PbA-12	2nd FL F8	02/18/16	199	min	3.05	L/min	60	7 L	
Lead		NIOSH 7082M		<2.00 µg		2.00 µg		<3.30 µg/m3	 	<1.37 µg/m3
159785-013	110-PbA-13	1st FL L12	02/19/16	179	min	3.05	L/min	54	6 L	
Lead		NIOSH 7082M		<2.00 µg		2.00 µg		<3.67 µg/m3	 	<1.37 µg/m3
159785-014	110-PbA-14	1st FL M15	02/19/16	177	min	3.05	L/min	54	0 L	
Lead		NIOSH 7082M		<2.00 µg		2.00 µg		<3.71 µg/m3	 	<1.37 µg/m3
159785-015	110-PbA-15	1st FL F15	02/19/16	170	min	3.05	L/min	51	9 L	
Lead		NIOSH 7082M		<2.00 µg		2.00 µg		<3.86 µg/m3	! ! !	<1.37 µg/m3
159785-016	110-PbA-16	1st FL D13	02/19/16	173	min	3.05	L/min	52	8 L	
Lead		NIOSH 7082M		<2.00 µg		2.00 µg		<3.79 µg/m3		<1.37 µg/m3
159785-017	110-PbA-17	1st FL B14	02/19/16	169	min	3.05	L/min	51	5 L	
Lead		NIOSH 7082M		<2.00 µg		2.00 µg		<3.88 µg/m3		<1.37 µg/m3

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.

Accrediting bodies: AIHA-LAP, LLC 100527
Page 1 of 3



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Customer: OCCU-TEC, INC. (3505) 4151 N. Mulberry D., Ste 275 Address:

Kansas City, MO 64116

Attn:

Project: Goodfellow Fed Center Bldg 110

Location: St Louis, MO Order #: 159785

Matrix Air Received 02/24/16 Analyzed 02/24/16 Reported 02/25/16

Number:	916029			PO N	lumber:		
Sample ID	Cust. ID	Location	Date	Time	Flow	Volume	
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
159785-018	110-PbA-18	1st FL D10	02/19/16	166 m	in 3.05 L/mir	n 506 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.95 μg/m3	<1.37 µg/m3
159785-019	110-PbA-19	1st FL F10	02/19/16	172 m	in 3.05 L/mir	n 525 L	
Lead		NIOSH 7082M		<2.00 μg	2.00 µg	<3.82 μg/m3	<1.37 µg/m3
159785-020	110-PbA-20	1st FL B6	02/19/16	175 m	in 2.34 L/mir	n 410 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.88 μg/m3	<1.78 µg/m3
159785-021	110-PbA-21	1st FL E7	02/19/16	174 m	in 2.62 L/mir	n 456 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.39 µg/m3	<1.59 µg/m3
159785-022	110-PbA-22	1st FL C4	02/19/16	172 m	in 3.05 L/mir	n 525 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.82 μg/m3	<1.37 µg/m3
159785-023	110-PbA-23	1st FL D3	02/19/16	169 m	in 3.05 L/mir	n 515 L	
Lead		NIOSH 7082M	!	<2.00 μg	2.00 µg	<3.88 µg/m3	<1.37 µg/m3
159785-024	110-PbA-24	1st FL J3	02/19/16	166 m	in 3.05 L/mir	n 506 L	
Lead		NIOSH 7082M		<2.00 μg	2.00 µg	<3.95 μg/m3	<1.37 µg/m3
159785-025	110-PbA-25	Bsmt A15	02/23/16	170 m	in 3.67 L/mir	n 624 L	
Lead		NIOSH 7082M	!	<2.00 μg	2.00 µg	<3.21 µg/m3	<1.14 µg/m3
159785-026	110-PbA-27	Bsmt D14	02/23/16	172 m	in 3.67 L/mir	n 631 L	
Lead		NIOSH 7082M	!	<2.00 μg	2.00 µg	<3.17 μg/m3	<1.14 µg/m3
159785-027	110-PbA-28	Bsmt D10	02/23/16	175 m	in 3.67 L/mir	n 642 L	
Lead		NIOSH 7082M	!			<3.12 μg/m3	
159785-028	110-PbA-29	Bsmt A11	02/23/16	174 m	in 3.67 L/mir	n 639 L	
Lead		NIOSH 7082M	!			<3.14 μg/m3	
159785-029	110-PbA-30	Bsmt G10	02/23/16	184 m	in 3.67 L/mir	n 675 L	
Lead		NIOSH 7082M		<2.00 μg	2.00 µg	<2.97 μg/m3	<1.14 µg/m3
159785-030	110-PbA-31	Blank	02/23/16				
Lead		NIOSH 7082M		<2.00 μg	2.00 µg		

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



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Order #:

Matrix

Received

Analyzed

Reported

Customer: OCCU-TEC, INC. (3505) 4151 N. Mulberry D., Ste 275 Address:

Kansas City, MO 64116

Project: Goodfellow Fed Center Bldg 110

-Location: St Louis, MO Number: 916029

PO Number:

Sample ID Cust. ID Time Location Date Flow Volume **Parameter** Method Total RL* 8 Hr TWA Conc.

Analyst: IH

Attn:

159785-02/25/16 08:37 AM

(b) (6)

Reviewed By: Abisola Kasali

Metals Supervisor

159785

02/24/16

02/24/16

02/25/16

Air

OSHA 8 Hr Permissible Exposure Limit (PEL)

PEL **Parameter**

 $0.0500 \text{ mg/m}^3 [50.0 \, \mu\text{g/m}^3]$ Lead

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159785		
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V:\159\159785

											_	__					
Submitting Co.	OCCU-TE	C, Inc.						Lab WO#	_	Phone 816-230-5580							
4151 N. Mulberry	y Drive, Sı	lite 27	5					Acct#	3505		Fax Ema		6-994-	3470 / ja	yhurst@oc	cutec.cor	n
Kansas City, MO	64116						Č	"State of Collection	Missouri		**Ce Requ			Yes	⊠ No		
Project Name:	Goodfe	llow F	eder	al Cent	ter -	Bld	- 11	0		al Instrucți	ons [includ	e reque	sts for	special r	eporting o	r data paci	(ages]
Project Location:	St. Loui	s, MO)				<u> </u>							****			
Project Number:	916029			 "													-
PO Number:					-												
Turn Around	Time	7.1	Matrix	/ Sample	e Type (Select O	NE)			Te	ests / Analy	tes (Sel	loof Al:	L that Am	unli A	:	-
2 hours*		Al	li samp	oles on foi	rm shou	ıld be of S	SAME .	Aspes	tos Air / Fib	1		stos Bu		77 77 .	100	als-Total C	onc.
☐ Same day*				aitional i	torms as	needed.	□ РСМ	(NIOSH 740	0)	PLM (E				⊠ Lead			
1 business day] 1 business day*				☐ So	olid		☐ TEM	(AHERA)		□ PLM (B			, [— □ RCRA M	letals	
2 business day	2 business day* Aqueous				☐ Wa	aste .		☐ TEM (EPA Level II) ☐ PLM (Qualitative only)					· 				
3 business days	3 business days* ☐ Bulk				☐ Wa	astewater	r,	Δ	·		☐ NYELA	NP 198.1	1/.4/.6		<u> </u>		
	5 business days* Hi-Vol Filter (PM) 🔲 Wa	ater,Drink	ting -	Mis	scellaneous	Tests	☐ CAELA	P (EPA	Interim	n) [М	etals-Extra	ıct
Full TCLP (10d	;					ompliance	e .	☐ Total	Dust (NIOS	1 0500)	TEM (C	Chatfield	l)	Ī	TCLP/L		
Weekend*	Weekend* □ Oil				× W	Vipe		Resp	. Dust (NIO	SH 0600)					TCLP/F	RCRA Meta	ıls
* not available for all tests						/ipe, Com	•		- FTIR (NIC		FOR	ASBES	STOS A	AIR:	TCLP / F	Full (w/ orga	anics)
Schedule rush organics, multi-						Micro-Va	ac Dust	1	Silica - XRD (NIOSH 7500)			TYPE OF RESPIRATOR			Others		
advance. Soil Soil								☐ Mold	d Direct Exam USED:								
Sample #	E.A. (1775)	ate pled**		ime npled**	(Emn			ntification g, Materia	al Tuncil	Wiped	pH /		Time			/ Rate ³	Total ⁴
ir Die		Tide Congress	9.0	15年40万年3月	1	~1F1	, ,		а, турет) !!?	Area (ft²)	Temp *	9:0		Stop /2://	Start	305	S85.6
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-05	P. Parada	Pay A	100.00			<i>→</i>	<i>"</i>	<u>E-</u>	//			9:3	37 /	2:54	3.05	3.05	616.1
-06	22.7 a. (2.3c)	李松	wat.	9 (0.5)		<i>h</i>)) 	<u> </u>	8			9.0	43 1	3:00	305	3.05	600
-0	7	10	rtorkij. Kanada			<i>"</i>	"	_E	-5			9:	ς2 /	13:08	3.05	3.05	597.
-08		15 MA		1		n	"	E	-2			9.9	59 1	13:14	3.05	3.05	594
-09				15 mil		Ø.	21	14.	. 3			10:	091	13:33	7.05	305	67.7
-10	740.45 104.45			17.7.7	,	/,	11	/ ~	3	,.		10:	19 1	3:41	2.62	2.42	610.
~11			される 物語			27	7)		5			10.1	91	350	3.05	305	613
-12	V			\boldsymbol{J}	11	,	7,	T-	.8			10:		1356	3.05	3.05	606
¹ Type: A=area B	=blank P=	person	al E≕e	xcursion	ı ² Beç	inning/E	nd of Sa	mple Perio	od ³ Pump	Calibration	n in Liters/N		[]		ers [time in	min * flow	in L/min1
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<u></u>) (6)					ure (b	b) (6)	7			,	_		_		to Sender (s al by lab (\$50	
	, (0)	77		S	SIGNATI	URE N) (O)				(b) (6)		•	Shi	pping Met	hods
DATE/TIME2	, /Y-	" / / _		l r	DATE/TI	ME &	27	(-)C	// /XOO UPS USM								
Sample return	-/0	140													☐ HD	☐ DB	

☐ Sample return requested ☐ Ambient temp ☐ Ice

* Temperature taken with IR Gun A. **Required.

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WO	Label
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e-mail: info@slabinc.com www.slabinc.com Submitting Co. OCCU-TEC, Inc. Lab WO# Phone 816-230-5580 Fax / 4151 N. Mulberry Drive, Suite 275 Acct# 3505 816-994-3470 / lavhurst@occutec.com Email **State of **Cert. Collection Missouri ☐ Yes X No Kansas City, MO 64116 Required Goodfellow Federal Center Special Instructions [include requests for special reporting or data packages] Project Name: St. Louis, MO Project Location 916029 Project Number: PO Number: **Turn Around Time** Matrix / Sample Type (Select ONE) Tests / Analytes (Select ALL that Apply) 2 hours* All samples on form should be of SAME Asbestos Air / Fiber Counts Asbestos Bulk / Asb ID Metals-Total Conc matrix type. Use additional forms as needed. PCM (NIOSH 7400) □ PLM (EPA 600/R-93/116) 🔀 Lead Same day* 1 business day* Solid TEM (AHERA) PLM (EPA Point Count) RCRA Metals XI Air 2 business day TEM (EPA Level II) ☐ Aqueous ☐ Waste PLM (Qualitative only) NYELAP 198,1/.4/.6 ★ 3 business days* ☐ Bulk 5 business days* ☐ Hi-Vol Filter (PM10) ☐ Water, Drinking CAELAP (EPA Interim) **Miscellaneous Tests Metals-Extract** TEM (Chatfield) Full TCLP (10d) ☐ Hi-Vol Filter (TSP) ☐ Compliance ☐ Total Dust (NIOSH 0500) TCLP / Lead ■ Weekend* ☐ Oil Resp. Dust (NIOSH 0600) П TCLP / RCRA Metals X Wipe Silica - FTIR (NIOSH 7602) FOR ASSESTOS AIR: ☐ Paint ☐ TCLP / Full (w/ organics) * not available for all tests ■ Wipe, Composite Micro-Vac Dust ☐ Sludge Silica - XRD (NIOSH 7500) TYPE OF RESPIRATOR Schedule rush organics, multi-Others metals & weekend tests in Mold Direct Exam □ Soil USED: advance. Sample Identification Wiped Flow Rate3 Date Time Total⁴ pH/ Sample # Sampled** | Sampled** (Employee, SSN, Bldg, Material, Type1) Area (ft2) Temp * Start Stop Start 1028 3.05 3,05 545.95 729 1031 3.05 18 1033 3.05 3.05 i 2, 1044 3.05 751 3,05 527.6 3,*0*5 3.*0*5 1 1017 11 806 3 05 506 1052 3,05 3,05 -19 3.05 1107 524. 831 1126 2.07 -20 1 409.5 ٠, " 2.62 2 62 -21 -22 21 3,05 1 -23 05 2, 3.05 -74 ¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min] Sample Disposal Relinquished to lab by Sampled by Return to Sender (Shipping fees) NAME Disposal by lab (\$50 fee) (b) (6) (b) GNATURE، SIGNATURE (b) (6) Shipping Methods FX HD ☐ UPS ☐ USM DATE/TIME _ DATE/TIME ☐ DB

R S Receiv

Chain-of-Custody documentation continued internally within lab. Terms and

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WO	Labe	1
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	www.siabilic.com						(@Sidbii ii								
Submitting Co.	OCCU-TE	C, Inc.				_ab WO#			Phone	816-230)-5580				
4151 N. Mulberry	Drive, Su	ite 275				Acct#	3505		Fax / Email	816-994	1-3470 / ja	yhurst@occ	utec.com		
Kansas City, MO	64116					*State of ollection			**Cert Require] Yes	⊠ No			
Project Name:	Goodfe	low Fe	derai Cent	er - B	1da 111	2	Special Instructions [include requests for special reporting or data packages]								
Project Location:	St. Loui	s, MO			<u> </u>									· .	
Project Number:	916029														
PO Number:															
Turn Around	Time	Ma	itrix / Sample	Type (Sel	ect ONE)		4 - 52 - 5	Te	sts / Analyte	s (Select A	LL that Ap	ply)	w .		
2 hours*		All s	amples on fo	m should b	e of SAME	Asbes	stos Air / Fil	er Counts	Asbesto	s Bulk / A	sb ID	Meta	is-Total Co	nc.	
☐ Same day*	All samples on form should be of SAME matrix type. Use additional forms as needed				ns as needed.	PCN	A (NIOSH 74	00)	PLM (EP.	A 600/R-93	3/116)	🔀 Lead			
1 business day						☐ TEN	(AHERA)		PLM (EP.	A Point Co	unt)	RCRA M	etais		
2 business day	· !_					TEN	4 (EPA Level	II)	☐ PLM (Qu	alitative on	ly) i	□		—	
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Schneider Laboratories Global, Inc

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CustomerOCCU-TEC, INC. (3505)Address4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159783

 Matrix
 Wipe

 Received
 02/24/16

 Analyzed
 02/24/16

 Reported
 03/04/16

Project Goodfellow 110
Location St Louis, MO
Number 916029

└Number	916029					
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159783-001	110-PbV-001	2nd Floor CT M12	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159783-002	110-PbV-002	2nd Floor D15 CT	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159783-003	110-PbV-003	2nd Floor D9 CT	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159783-004	110-PbV-004	2nd Floor F2 Carpet	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159783-005	110-PbV-005	2nd Floor F10 CT	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159783-006	110-PbV-006	2nd Floor F10 Carpet	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159783-007	110-PbV-007	1st Floor E17 Floor	02/19/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159783-008	110-PbV-008	1st Floor G14 Carpet	02/19/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159783-009	110-PbV-009	1st Floor C14 CT	02/19/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159783-010	110-PbV-010	1st Floor D15 Elev Tred	02/19/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2
159783-011	110-PbV-011	1st Floor Hall CT	02/19/16			

Report Amended. Corrected descriptions on samples 11 and 12 from 2nd Floor to 1st Floor per customer request.

Minimum Total Reporting Limit: 10.0 μ g/wipe. EPA Clearance Std: 40 μ g/ft² for floors, 250 μ g/ft² for interior window sills, and 400 μ g/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159783

 Matrix
 Wipe

 Received
 02/24/16

 Analyzed
 02/24/16

 Reported
 03/04/16

Project Goodfellow 110
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-012	110-PbV-012	1st Floor Stairwell Land	02/19/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-013	110-PbV-013	Bsmt Bay Land	02/23/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159783-014	110-PbV-014	Bsmt CC Step	02/23/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159783-015	110-PbV-015	Bsmt Pipe D10	02/23/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-016	110-PbV-016	Bsmt E Tunnel Floor	02/23/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-017	110-PbV-017	Bsmt Tank Rm Brick Stair	02/23/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159783-018	110-PbV-018	Bsmt Tunnel Entrance W	02/23/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	939 µg/wipe	8730 μg/ft2	186 μg/ft2
159783-019	110-PbV-019	Blank	02/23/16			
Lead		EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 μg/wipe

Analyst MHB

159783-03/04/16 02:27 PM



Project Manager

Report Amended. Corrected descriptions on samples 11 and 12 from 2nd Floor to 1st Floor per customer request.

Minimum Total Reporting Limit: 10.0 μ g/wipe. EPA Clearance Std: 40 μ g/ft² for floors, 250 μ g/ft² for interior window sills, and 400 μ g/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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e151 N. Mulherry Drive,				Acct#	3505			Fax / Email	816-994	- 347 0 / j	nyhuret@occ	utec.com	
Kansas City, MO 64118			1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	"State of Collection	Masouri	-generalis	30 mm m	"Cert. Required		Yes	X) No		
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E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 29, 2016

Attention:

Jay Hurst

Occu-Tec, Inc.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2246OCCA

Goodfellow 110 Project

OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 24, 2016. These samples represent the TEM samples for the Goodfellow 110 Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the twelve (12) samples are summarized in Tables I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely (b) (6)

S. Dewayne Lear, B.S. TEM Laboratory Director



TABLE I

Inside Samples

Project Name: Goodfellow 110 Project - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I001	110-AA-001	NSD	NA	1546.6	0.0038	BDL (0.0038)*	BDL (15.2)*
I002	110-AA-002	NSD	NA	1585.9	0.0037	BDL (0.0037)*	BDL (15.2)*
1003	110-AA-003	NSD	NA	1561.7	0.0037	BDL (0.0037)*	BDL (15.2)*
I004	110-AA-004	NSD	NA	1593.9	0.0037	BDL (0.0037)*	BDL (15.2)*
1005	110-AA-005	NSD	NA	1626.1	0.0036	BDL (0.0036)*	BDL (15.2)*
I006	110-AA-006	NSD	NA	1602	0.0037	BDL (0.0037)*	BDL (15.2)*
1007	110-AA-007	NSD	NA	1585.9	0.0037	BDL (0.0037)*	BDL (15.2)*
1008	110-AA-008	NSD	NA	1569.8	0.0037	BDL (0.0037)*	BDL (15.2)*
1009	110-AA-009	NSD	NA	1550.3	0.0038	BDL (0.0038)*	BDL (15.2)*
I010	110-AA-010	NSD	NA	1650.3	0.0035	BDL (0.0035)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable

BDL = Below Detectable Limit CH = Chrysotile

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6) TEM Laboratory Director:

^{*} Single fiber detection limits are used when no structures are detected.

TABLE II

Inside Samples

Project Name: Goodfellow 110 Project - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Asb. Sample Sensitivity		Analytical Sensitivity	Conc. (s/cc)	Conc. (s/mm²)
I011	110-AA-011	NSD	NA	1626.1	0.0036	BDL (0.0036)*	BDL (15.2)*
I012	110-AA-012	NSD	NA	1618.1	0.0036	BDL (0.0036)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable SAED=Selected Area Electron Diffraction

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6) Date: 2/29/16 TEM Laboratory Director:

^{*} Single fiber detection limits are used when no structures are detected.

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TEM AHERA CHAIN OF CUSTODY FORM

	TEW AHERA CHAII	1 OF C	05101	JI I OK	<u> </u>	
Company: C	OCCU-TEC INC.	Felephone #	: 816-23 ²	1-5580 F	ax #: 816-994	-3470
Contact: Ja	y Hurst	_ Client Pr	oject Numb	er: 9160	29	··· • · · · · · · · · · · · · · · · · ·
Relinquished by	y:	_ Date: _			Time:	
Written Report	To: jayhurst@occutec.com; jsmith@	occutec.	.com			
Project Name:	Goodfellow IIO		— .			
Turn-Around T	ime: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour	2(3 Day)	4-5 Day W	eekend Rush A	fter Hour Rush
Samples Receiv	MSE- 7 7 4 7 (C) Comments ed by: (b) (6) Analyzed by: TEM AFERA / EPA 40CVR Pa red By: (b) (6)	Date:	* * * * * * * * * * * * * * * * * * * *	& Rood	Time: <i>_[0</i>	06
Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time	x Liters/Minut	e = Volume
110-44-061	2nd Floor-L-12	0859	1211	192	8.05	1546.6
110-44-002	2nd Floor - N-15	0907	1224	197	8.05	1585.9
110-41-003	2nd Floor - G=14	0415	1220	194	8.05	1561.7
110-44-004	2nd Floor - D-15	0925	1243	195	8.05	1593.9

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time	x Liters/Minut	e = Volume
110-44-001	2nd Floor-L-12	0859	1211	192	8.05	1546.6
110-44-002	2nd Floor - N-15	0907	1224	197	8.05	1585.9
110-41-003	2nd Floor - G=14	0415	1220	194	8.05	1561.7
110-44-004	2nd Floor - D-15	0925	1243	195	8.05	1593.9
110-AA-00S	2nd Floor - Ell	0932	1254	202	8.05	1626.1
110-AA-006	2nd Floor - D8	0941	1300	199	8.05	1602
110-AA-007	2nd Floor - ES	6951	1308	197	8.05	1585.9
110-AA-008	2nd Floor - EZ	0959	1314	195	5.05	1569.8
110-AA-00 9	Zna Floor - H3	1008	1333	205	8.05	1650.3
110-AA-610	2nd Floor - L3	1016	1341	205	8.05	1650.3
110-AA-011	2nd Floor - F5	1028	1350	202	8.05	1676.1
110-AA -012	2nd Floor - F8	1035	1356	201	7.05	1618.1
110-AA-013	15+ Floor - L12	727	1027	180	8.05	1449
110-AA -014	1st Floor - MIS	734	1031	176	8.05	1416.5
110-AA -015	1st Floor - F15	742	1034	172	8.05	1384.6

Results Transmitted/Date	: Fax/Phone By	
	· · · · · · · · · · · · · · · · · · ·	

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TEM AHERA CHAIN OF CUSTODY FORM

Company: O	CCU-TEC INC.	elephone #	816-231	-5580 F	ax #: 816-994-	3470
Contact: Ja	y Hurst		oject Numb	0400	29	
Relinquished by	/:	Date:			Time:	
Written Report	To: jayhurst@occutec.com; jsmith@	occutec.	com	- <u></u>		
Project Name:	Goodfellow \\O				<u> </u>	
Turn-Around T	ime: (Circle One) 4 Hour 6-8 Hour(same day)	24 Hour	2-6 Day	4-5 Day W	eekend Rush Af	er Hour Rush
			^			
		1	()			
MSE Project #:	MSE- 22460CCA Comments	: <u> </u>	Nac	<u>t · </u>		
Samples Receiv	ed by: (b) (6)	Date:	220	116	Time: _ 	6
Sample To Be A	analyzed by: TEM AHERA / PA 40CF Pa	rt 763				
Samples Prepar	_{red By:} _(b) (6)	[ethod	Burdett	& Rood		
Samples Analyz		ate:	226	16		
		<u>-</u>		<u> </u>		
Client ID	Sample Location / Type	Start	Stop	Total Time	x Liters/Minute	- Volumo
Number	(I)inside(O)outside(B)blank (P)personal(A)ambient	Time	Time	Total Line	X Liters/Minute	- volume
110-44-016	15t Floor - D13	750	1044	174	8.05	1400.7
110-AA-017	15+ Floor - 814	758	1048	170_	8.05	1368.5
110-AA-018	151 Floor - DIO	505	1052	167	8,05	1344.4
110-AA-019	1st Floor - F10	815	1108	173	8,05	1392.7
110-AK-020	1st Floor - 816	831	1126	175	8-05	1332.6
110-44-021	1 Floor - E7	842	1146	184	8.05	1481.2
110 - 14 A-022	1st Floor - C4	911	1153	162	8.05	1304.1
110 -AK-023	1st Floor - D3	906	1155	170	8.05	1345.5
110 -AA -074	122 Floor - 23	913	1159	160	8.05	1336.3
110-AA-025	Basment - A15	1034	1324	170	8.03	1365.1
760-AA-UII	Baserent - D14	1038	1330	172	8.03	1381.2
110-4A-028	Barrent - DIO	1041	1336	175	7.03	1405.3
110-11-039	Basney - All	1040	1334	174	5.03	1397.2
110-AA-030	Basum - 610-KU G-10	1042	1346	184	8.03	1477.5
110-AA-036	Blank	<u> </u>				
_						
Results Trans	mitted/Date:	Fax	/Phone B	y:		

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 29, 2016

Attention:

Jay Hurst

Occu-Tec, Inc.

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2246OCCA.3

Goodfellow 110 Project Continued

OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 24, 2016. These samples represent the TEM samples for the Goodfellow 110 Project Continued - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the twelve (12) samples and one (1) blank are summarized in Tables I, II & III. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely. (b) (6)

> S. Dewayne Lear, B.S. TEM Laboratory Director



TABLE I

Inside Samples

Project Name: Goodfellow 110 Project Continued - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.3

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I013	110-AA-013	NSD	NA	1449	0.0040	BDL (0.0040)*	BDL (15.2)*
I014	110-AA-014	NSD	NA	1416.8	0.0041	BDL (0.0041)*	BDL (15.2)*
I015	110-AA-015	NSD	NA	1384.6	0.0042	BDL (0.0042)*	BDL (15.2)*
I016	110-AA-016	NSD	NA	1400.7	0.0042	BDL (0.0042)*	BDL (15.2)*
I017	110-AA-017	NSD	NA	1368.5	0.0043	BDL (0.0043)*	BDL (15.2)*
I018	110-AA-018	NSD	NA	1344.4	0.0044	BDL (0.0044)*	BDL (15.2)*
I019	110-AA-019	NSD	NA	1392.7	0.0042	BDL (0.0042)*	BDL (15.2)*
1020	110-AA-020	NSD	NA	1332.6	0.0044	BDL (0.0044)*	BDL (15.2)*
I021	110-AA-021	NSD	NA	1481.2	0.0040	BDL (0.0040)*	BDL (15.2)*
1022	110-AA-022	NSD	NA	1304.1	0.0045	BDL (0.0045)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director:

1cCall and Spero Environmental, Inc.

^{*} Single fiber detection limits are used when no structures are detected.

TABLE II

Inside Samples

Project Name: Goodfellow 110 Project Continued - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.3

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I023	110-AA-023	NSD	NA	1368.5	0.0043	BDL (0.0043)*	BDL (15.2)*
I024	110-AA-024	NSD	NA	1336.3	0.0044	BDL (0.0044)*	BDL (15.2)*
I025	110-AA-025	2	СН	1365.1	0.0043	0.0086	30.4
I027	110-AA-027	NSD	NA	1381.2	0.0042	BDL (0.0042)*	BDL (15.2)*
1028	110-AA-028	1	СН	1405.3	0.0042	0.0042	15.2
1029	110-AA-029	NSD	NA	1397.2	0.0042	BDL (0.0042)*	BDL (15.2)*
1030	110-AA-030	2	СН	1477.5	0.0040	0.0079	30.4

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable

SAED=Selected Area Electron Diffraction

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6) Date: 2/29/16 TEM Laboratory Director:

^{*} Single fiber detection limits are used when no structures are detected.

TABLE III

Blank Samples

Project Name: Goodfellow 110 Project Continued - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.3

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc.	Conc. (s/mm²)
BL36	110-AA-036	NSD	NA	NA	NA	NA NA	BDL (10.6)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

A = Amosite

NA = Not Applicable

BDL = Below Detectable Limit CH = Chrysotile SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

	(b) (6)					
TEM Laboratory Director:		Dat	e: 2	24	16	
			•			

^{*} Single fiber detection limits are used when no structures are detected.

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TEM AHERA CHAIN OF CUSTODY FORM

Company: O	CCU-TEC INC.	Telephone #	: 816-23°	1-5580 F	ax #: 816-994	1-3470
Contact: Jay	y Hurst	_ Client Pr	oject Numb	er: 9160	29	
Relinquished by	/s	_ Date: _			Time:	
Written Report	To: jayhurst@occutec.com; jsmith@	occutec.	.com			
Project Name:	Goodfellow 110					
Turn-Around T	ime: (Circle One) 4 Hour 6-8 Hour(same day)) 24 Hour	2 3 Day	4-5 Day W	eekend Rush A	fter Hour Rush
For Laboratory	10-70-16				•	
MSE Project #:	MSE- 7.7460CCA.3 Comments	: Inf	act			
	ed by: (b) (6)		2.24.	16	Time:	000 An
Sample To Be A	nalyzed by: TEM AHERA / EPA 400 R Pa				A construction of the second	
Samples Prepar	ed By: (b) (6)	Method	: Burdett	& Rood	·	
Samples Analyz		_ Date:	2125	16		
Client ID	Sample Location / Type	Start	Stop	T . 100	7	***
Number	(I)inside(O)outside(B)blank (P)personal(A)ambient	Time	Time	Total Tim	e x Liters/Minut	e = Volume
110-44-001	2nd Floor-L-12	0859	1211	192	8.05	1546.6
110-AA-002	2nd Floor - N-15	0907	1224	197	8.05	1585.9
110-44-003	2md Floor - G-14	0915	1224	194	8.05	1561.7
110-44-004	2nd Floor - D-15	0925	1243	195	8.05	1593.9
110-44-005	2nd Floor - Ell	0932	1254	202	F.05	1626.1
110-AA-006	2nd Floor - D8	0941	1300	199	8.05	1602
110-AA-007	2nd Floor - ES	6951	1308	197	8.05	1585.9
110-AA-005	2nd Floor - Ed	0959	1314	195	5.05	1569.8
110-AA-00 9	2nd Floor - H3	1008	1333	205	8.05	1650.3
018-44-011	Zna Floor - L3	1016	1341	205	8.05	1650.3
110-AA-011	2nd Floor - F5	1028	1350	202	8.05	1676.1
NO-AA -012	2nd Floor - F8	1035	1356	201	7.05	1618.1
110-AA-013	134 Floor - 612	727	1027	180	8.05	1449
	1st Place - MIS	734	1031	176	8.05	1416.8
110-AA-014	. 100					

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: O	CCU-TEC INC.	elephone #:	816-231	-5580 F	Fax #: 816-994-	3470
	y Hurst		oject Numb	0400)29	
Relinquished by	:	_ _ Date:		<u> </u>	Time:	<u> </u>
Written Report	To: jayhurst@occutec.com; jsmith@	occutec.	com			
Project Name:	Goodfellow 110					
Turn-Around T	ime: (Circle One) 4 Hour 6-8 Hour(same day)	24 Hour	2-6 Day	4-5 Day W	Veekend Rush Aft	er Hour Rush
For Laboratory	rise Only		<u></u>			· · ·
THE RESIDENCE OF THE PARTY OF T	and the second of the second o					*
MSE Project #:	MSE- 22460CCA.3 Comments	: Into	act			
Samples Receiv	ed by: (b) (6)	ate:	2.24	1.16	Time:	000 An
Sample To Be A	nalyzed by TEM AHERA / EPA 40C/R Pa	rt 763			· ·	
Samples Prepar	ed By: (b) (6)	Method	: Burdett	& Rood		
Samples Analyz		Date:	2 25	16		
		<u> </u>				
Client ID	Sample Location / Type	Start	Stop	Total Tim	ıe x Liters/Minute	= Volume
Number	(I)inside(O)outside(B)blank (P)personal(A)ambient	Time	Time	Total Inc		T
110-44-016	1st Floor - D13	750	1044	174	8.05	1400.7
110-AA-017	15+ Floor - 814	758	1048	170	8.05	1368.5
810-AA-018	152 Floor - DIO	505	1052	167	8.05	1344,4
110-AA-019	154 Floor - F10	815	1108	173	5,05	1392.7
110-414-020	1st Floor - 816	831	1126	175	8.05	1332.6
No de An	1st Floor - E7	842	1146	184	8.05	1481.2
110-44-021						
110-14A-027	1st Floor - C4	911	1153	162	8.05	1304.1
	1st Floor - C4	T			8.05 8.05	1 '
110-14A-022	1st Floor - C4	911	1153	162		1345.5
110-4A-027 110-AK-023	1st Floor - C4 1st Floor - D3 1st Floor - J3	911	1153	162	8.05	1345.5
110-AA-022 110-AA-023 110-AA-024	1st Floor - C4 1st Floor - D3 1st Floor - J3 baseurt - A15	911	1153	162 170 160	8.05 8.05	1345.5
110-AA-027 110-AA-023 110-AA-074 110-AA-025 110-AA-027	1st Floor - C4 1st Floor - D3 1st Floor - J3 baseunt - A15	911 906 913 1034	1153	162 170 160 170	8.05 8.03	1345.5
110 - A A -022 110 - A A - 023 110 - A A - 024 110 - A A - 025	1st Floor - C4 1st Floor - D3 1st Floor - D3 Basuret - A15 Basuret - D14 Basuret - D10 Basuret - A11	911 906 913 1034 1038	1153	162 170 166 170	δ. 05 δ. 05 δ. 03 δ. 63	1365.5 1336.3 1365.1 1381.2 1405.3
20-44-011 20-44-011 20-44-011 760-44-011	1st Floor - C4 1st Floor - D3 1st Floor - D3 1st Floor - J3 Baseurt - A15 Baseurt - D19 Baseurt - D10 Baseurt - A11	911 906 913 1034 1038	1153 1155 1155 1159 1324 1330	162 170 166 170 172 173	8.05 8.05 8.03 δ.63 7.03	1345.5 1336.3 1365.1 1381.2

BUILDING 115

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDING	115								
Asbestos TEM Air Samples										
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level						
115-AA-001	1st Floor Office Area	<15.2	s/mm ²	70 s/mm ²						
115-AA-002	1st Floor Open Exercise South Center	<15.2	s/mm ²	70 s/mm ²						
115-AA-003	1st Floor Education Classroom South Center	<15.2	s/mm ²	70 s/mm ²						
115-AA-004	1st Floor Aerobics South East	<15.2	s/mm ²	70 s/mm ²						
115-AA-005	Basement North	<15.2	s/mm ²	70 s/mm ²						
115-AA-006	Basement East	<15.2	s/mm ²	70 s/mm ²						
115-AA-007	Basement South	<15.2	s/mm ²	70 s/mm ²						
115-AA-008	Basement West Tunnel	<15.2	s/mm ²	70 s/mm ²						
115-AA-009	Blank	<15.2	s/mm ²	70 s/mm ²						
	Lead Air Sam	ples								
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level						
115-PbA-001	1st Floor Office Area	<3.03	$\mu g/m^3$	30 μg/m ³						
115-PbA-002	1st Floor Open Exercise South Center	<3.00	$\mu g/m^3$	30 μg/m ³						
115-PbA-003	1st Floor Education Classroom South Center	<3.01	μg/m³	30 μg/m ³						
115-PbA-004	1st Floor Aerobics South East	<2.98	μg/m³	30 μg/m ³						
115-PbA-005	Basement North	<3.24	μg/m³	30 μg/m ³						
115-PbA-006	Basement East	<3.28	μg/m³	30 μg/m ³						
115-PbA-007	Basement South	<3.28	μg/m³	30 μg/m ³						
115-PbA-008	Basement West Tunnel	<3.30	μg/m³	30 μg/m ³						
115-PbA-009	Blank	<2.00	μg	30 μg/m ³						

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDING 115										
Lead Surface Dust Wipe Samples											
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level							
115-PbW-001	1st Floor Exercise Room North East Window Sill	<10	μg/ft²	$200 \mu \text{g/ft}^2$							
115-PbW-002	1st Floor Custodial Closet Tile Floor	37.8	μg/ft²	200 μg/ft ²							
	Lead Surface Dust Micro-vac Samples										
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level							
115-PbV-001	1st Floor East Carpet Floor	<92.9	μg/ft²	200 μg/ft ²							
115-PbV-002	1st Floor Weight Room Carpet Floor	<92.9	μg/ft²	200 μg/ft ²							
115-PbV-003	Basement Floor By Stairs	<92.9	μg/ft²	200 μg/ft ²							
115-PbV-004	Basement Floor by Tunnel	<92.9	μg/ft²	$200 \mu g/ft^2$							
115-PbV-005	Basement Tunnel Floor	424	μg/ft²	200 μg/ft ²							
115-PbV-006	Blank	<10	μg	200 μg/ft ²							



SAMPLE LEGEND

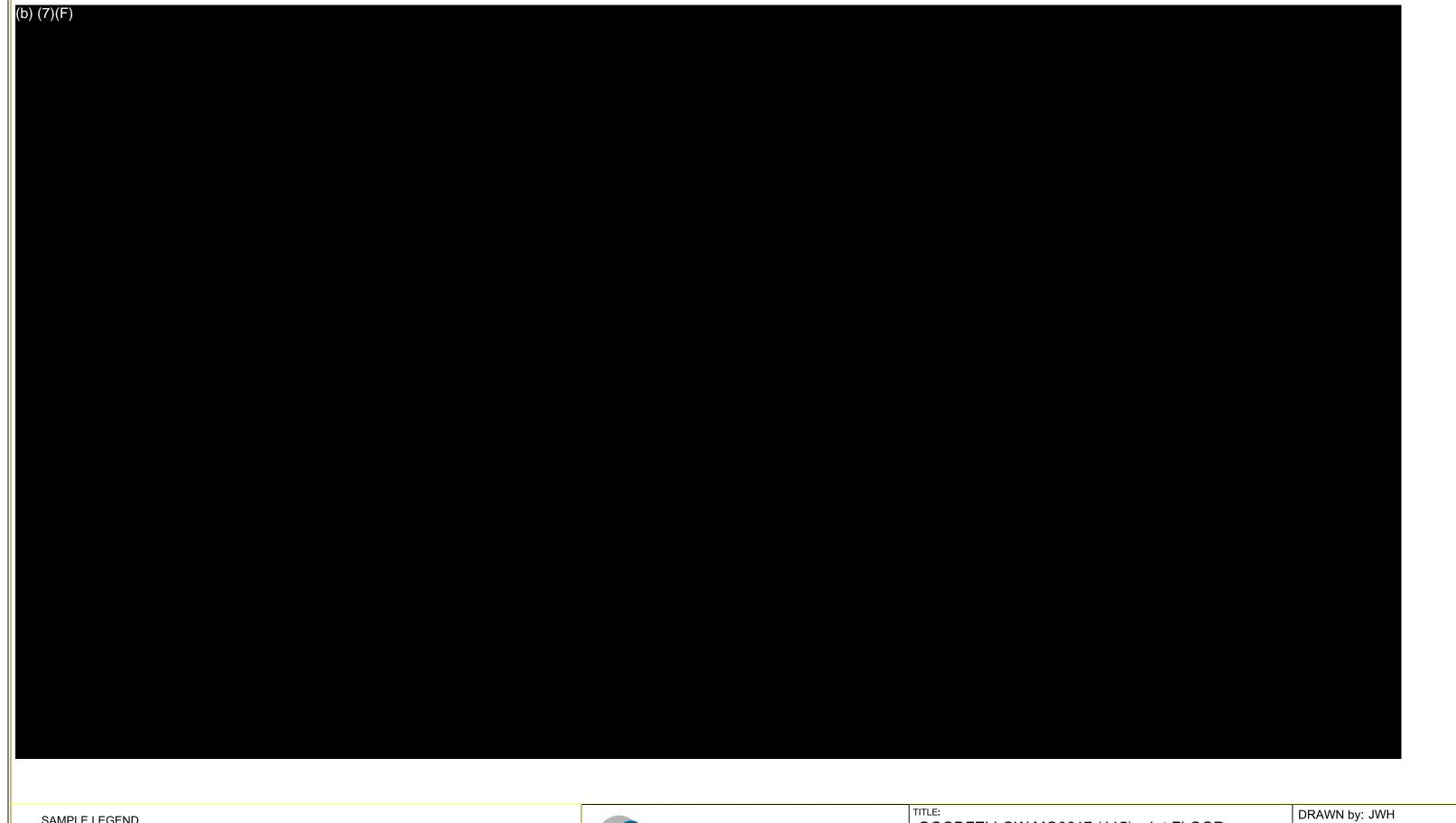
▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH
GOODFELLOW MO0617 (115) - Basement	SUB. DATE: 03/04/16
CLIENT NAME:	
GENERAL SERVICES ADMINISTRATION	
	SCALE: NTS
PROJECT NAME:	1110
GOODFELLOW GS-P-16-16-GZ7025	916029



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE

PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



GOODFELLOW MO0617 (115) - 1st FLOOR
CLIENT NAME:

SUB. DATE: 03/04/16

GENERAL SERVICES ADMINISTRATION

PROJECT NAME:

GOODFELLOW GS-P-16-16-GZ7025

SCALE:

NTS

916029

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159638

 Matrix
 Wipe

 Received
 02/23/16

 Analyzed
 02/23/16

 Reported
 02/24/16

Project Goodfellow-Bldg 115 Fitness

Location St Louis, MO **Number** 916029

Humber	0.0020					
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159638-001	115-PbV-001	1st FI E Carpet FI	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159638-002	115-PbV-002	1st FI Weight Rm S	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159638-003	115-PbV-003	Bsmt FI By Stairs	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159638-004	115-PbV-004	Bsmt FI By Tunnel	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 μg/ft2	92.9 µg/ft2
159638-005	115-PbV-005	Bsmt FI In Tunnel	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	45.6 µg/wipe	424 μg/ft2	92.9 µg/ft2
159638-006	115-PbV-006	Blank	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 μg/wipe

Analyst IH 159638-02/24/16 09:29 AM

(b) (6)

Reviewed By **Abisola Kasali** Metals Supervisor



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com



V:\159\159638

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Submitting Co.	CU-TEC	Inc.				Lab WO#	Lab WO#			816-230	-5580		· -	-
4151 N. Mulberry Dr	ive, Suit	e 275				Acct#	3505		Fax / Email	816-994	- 3470 /	jayhurst@oc	cutec.com	<u> </u>
Kanoas City, MO 64	116				•	**State of Collection	Migearri	en pale en pri	**Cert. Regulred		Yes	⊠ No		
Project Name: Go	odfello)w -	- Bld	a 11	-1 ' /	essC+	,	cial instructio	ns [include re		rspecial	reporting o	data packa	ges]
Project Location: St.	Louis,	MO		J							-			
Project Number: 916	6029				,				, :					• •
PO Number:														
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☐ Same day* †		HIGHIX	TATA. CSE	auditional	forms as needed.	PCM	(NIOSH 74	100)	☐ PLM			Lead	·.	
1 business day* †	E	ζ] Air		□ s	olid	☐ TEM	(AHERA)		PLM (Poin	t Count)	•	☐ RCRA M	letals	44 j. 3 j.
2 business days* †	-] Aque	ious	□ ∨		☐ TEM	(EPA Leve	l II).	PLM (Qual	itative only)		TCLP	
■ 3 business days* †		Bulk	- L Ette (Da	****	/astewater		cellaneou		NYELAP			TCLP/L		
5 business days* † Not available for all tests	- 1		ol Filter (PM ol Filter (TS:	_	ater,Drinking		Dust (NIOS		CAELAP (t)	1	RCRA Metals	
A job received past 3PM	- 1		n Lingi (12	V 🗵	ompliance		Dust (NIC		TEM (Chai	field)	٠		ull (w/ organ	
† will begin its TAT the next business day	1] Paint	ł .		ipe, Composite	!	- FTIR (NIC - XRD (NIC	·	FOR ASI	BESTOS	ΔIR:	BACT (N	Herobiology	
Schedule rush organics,	multi-	Sludg	4.7		Micro-Vac Dust		Other		TYPE OF RE			☐ Mold Dir		
edvance.	s in	Soil					- Othor		USED:		i. 			
	- Date		Time		Sample Ide		7.14	Wiped	pH/	Tim	e ²	Flow	Rate ³	Total⁴
Sample #	Sample	Company	Sampled 16 190		FI - C	Eastr	_)	Area (ft²)	Temp *	Start	Stop	Start	Stop	Air
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-004			##2:16 4 4:11	Bsn	nt-Floor	by tu	nnel	100cm						
-005		N .	1	Bsi	nt-Floo.	, in tu	nnel	100cm						
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	led by	or sam	pie quantity, i	vili lead to a	disclaimer on the rep	port. All probl	em jobs witho	out customer res	ponse held over	30 days will	be volded	and disposed	of. imple Disp	osal
Samp Joseph	\circ	11			Relinquishe	u to lab b	/	1	123	//6		Retur	to Sender	
			NAME	(b) (c)	(b) (c)			(0)			· · ·	sal by lab for excessive we	elght)	
DATE / TIME 2 / 8-16			1	SIGNATURE (b) (6)			(b)	(6)			l ·	ipping Metl		
DATE / TIME &				DATE /	TIME 2-	21-10	2					☐ fX ☐ HD	UPS DB	⊒ USM
☐ Sample return req		☐ Am			CI		R S	XX			E,	_ WB:_	208	y

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn:

Project: Goodfellow Bldg 115

Location: St Louis, MO **Number:** 916029

Order #: 159036

 Matrix
 Air

 Received
 02/17/16

Analyzed 02/17/16 **Reported** 02/18/16

PO Number:

-Number:	916029			PO NI	ımber:		
Sample ID	Cust. ID	Location	Date	Time	Flow	Volum	ne
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
159036-001	115-PbA-001	1st Floor Office Area	02/11/16	182 mir	n 3.63 L/m	in 661 I	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.03 µg/m3	<1.15 µg/m3
159036-002	115-PbA-002	1st Floor Open Exercise	02/11/16	184 mir	n 3.63 L/m	in 668 I	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.00 µg/m3	<1.15 µg/m3
159036-003	115-PbA-003	1st Floor Education	02/11/16	183 mir	n 3.63 L/m	in 664 l	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.01 µg/m3	<1.15 µg/m3
159036-004	115-PbA-004	1st Floor Aerobics	02/11/16	185 mir	n 3.63 L/m	in 672 l	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<2.98 µg/m3	<1.15 µg/m3
159036-005	115-PbA-005	Basement North	02/11/16	170 mir	n 3.63 L/m	in 617 l	L
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.24 µg/m3	<1.15 µg/m3
159036-006	115-PbA-006	Basement East	02/11/16	168 mir	n 3.63 L/m	in 610 l	<u>L</u>
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.28 µg/m3	<1.15 µg/m3
159036-007	115-PbA-007	Basement South	02/11/16	168 mir	n 3.63 L/m	in 610 l	<u>L</u> .
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.28 µg/m3	<1.15 µg/m3
159036-008	115-PbA-008	Basement West	02/11/16	167 mir	n 3.63 L/m	in 606 I	L
Lead		NIOSH 7082M	!	<2.00 µg	2.00 µg	<3.30 µg/m3	<1.15 µg/m3
159036-011	115-PbA-009	Blank	02/11/16			·	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: IH

159036-02/18/16 12:22 PM

(b) (6)

Reviewed By: **Abisola Kasali**Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter PEL

Lead $0.0500 \text{ mg/m}^3 [50.0 \text{ } \mu\text{g/m}^3]$

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505) **Address** 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159036

 Matrix
 Wipe

 Received
 02/17/16

 Analyzed
 02/17/16

 Reported
 02/18/16

Project Goodfellow Bldg 115

Location St Louis, MO **Number** 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159036-009	115-PbW-001	Exercise Room Window Sill	02/11/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 μg/ft2
159036-010	115-PbW-002	Custodial Closet Floor	02/11/16			
Lead		EPA 7000B / 3050B	1.00 ft2	37.8 µg/wipe	37.8 μg/ft2	10.0 μg/ft2

Analyst IH

159036-02/18/16 08:35 AM

(b) (6)

Reviewed By **Abisola Kasali**Metals Supervisor



* Temperature taken with IR Gun A.

SCHNEIDER LABORATORIES GLOBAL, INC.

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Submitting Co. Lab WO# Phone OCCU-TEC Inc 816-230-5580 Eav ! Acct # 4151 N. Mulberry Drive, Suite 275 3505 Email 816-994-3470 / jayhurst@occutec.com **State of **Cert. Kansas City, MO 64116 Collection Missouri ☐ Yes X No Required Project Name: Goodfellow Bldc Special Instructions [include requests for special reporting or data packages] Project Location: St. Louis, MO Project Number: 916029 PO Number: Turn Around Time (TAT) Matrix / Sample Type (Select ONE) Tests / Analytes (Select ALL that Apply) 2 hours* All samples on form should be of SAME Asbestos in Air Asbestos in Bulk Metals-Tota matrix type. Use additional forms as needed Same day* + PCM (NIOSH 7400) PLM XI Lead ☐ 1 business day* † ☐ Solid TEM (AHERA) PLM (Point Count) RCRA Metais 2 business days* † Aqueous ☐ Waste ☐ TEM (EPA Level II) PLM (Qualitative only) TCLP 3 business days* † ☐ Bulk Miscellaneous Tests NYELAP ☐ TCLP / Lead ☐ Hi-Vol Filter (PM10) ☐ Water,Drinking ☐ 5 business days* † Total Dust (NIOSH 0500) CAELAP (Point Count) TCLP / RCRA Metais Not available for all tests Hi-Vol Filter (TSP) Compliance Resp. Dust (NIOSH 0600). TEM (Chatfield) TCLP / Full (w/ organics) 10 day **⊠** Wipe A job received past 3PM Silica - FTIR (NIOSH 7602) † will begin its TAT the Microbiology Paint Wipe, Composite Silica - XRD (NIOSH 7500) next business day FOR ASBESTOS AIR: BACT (MPN & P/A) ☐ Sludge Micro-Vac Dust Schedule rush organics, multi-getals & weekend tests in × Ot<u>her</u> TYPE OF RESPIRATOR Mold Direct Exam П advance. USED: Date Time Sample Identification Flow Rate³ Wiped pH/ Total4 Sample # Sampled** Sampled** (Employee, SSN, Bldg, Material, Type1) Area (ft2) Temp * Start Stop Start Stop Air. 115-PbA-001 07:43 Floor OFFICE 3,63 0743 3.63 660.66 10:45 1/5-PbA-002 07:43 3.63 FLOOR - Open EXERCIF 66797 07:43 (D:4) 3.63 115-PbA-003 07:45 363 664.4 10:48 3.63 07:45 115- PbA-004 07:45 10:50 67159 07:45 3.63 3.63 115-PbA-005 08:13 BASEMENT " NORTH 08:13 3.63 11.65 617.14 115- PLA-006 08:15 - EAST 609.84 Basement 08:15 3.63 11:03 115-PhA-007 08:15 BASEMENT - South 11:03 08:15 3.63 115-PbA-009 08:16 BASEMENT - West 0816 1103 3.63 3.63 606.2 115-PbW-001 2/11/16 08:32 EXERCISE ROOM - WINDOW SILL 2/11/16 08:36 115-BW-002 USTODIAL Closet - Floor 1Type: A=Area E=Blank P=Personal E=Excursion 2Beginning/End of Sample Period 3Pump Calibration in Liters/Minute 4Volume in Liters [time in min × flow in L/min] All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of Sampled by Relinquished to lab by Sample Disposal Return to Sender (shipping fees)
Disposal by lab JAY HURST $_{\rm ATURE}^{\rm (b)}$ (6) (\$50 fee for excessive weight) (b) (6) (b) (6) Shipping Methods DATE / TIME 2/11/2016 DATE / TIME 2 5:00p1 FX ☐ USM ☐ Sample return requested ☐ Ambient temp ☐ Ice

Chain-of-Custody documentation continued internally within lab. Terms as

SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, F	Richmond, Virginia 23220-5117
304-353-6778 • 800-785-L	ABS (5227) • Fax 804-359-1475
www.slabinc.com	e-mail: info@slabinc.com

Submitting Co.	CCU-TE	C Inc.			Lab WO#			Phon		230-5580			
4151 N. Mulberry D	rive, S	uite 27	5		Acct#	3505	· · · · · ·	Fax Ema			ioulumat@a	occutec.co	
Kansas City, MO 6	4116		:		**State of Collection	Missouri		**Cer Requir	E .	☐ Yes	jaynursi@c	Participants and a	<u>m</u>
Project Name: G	oodfe	llow	- Bld	9 115	2.46.46.69.200.4	1.07	cial Instructi	ons [include	<u> </u>	s for enecia	l reporting	ni datal	
Project Location: St	. Loui	s, MO	•								, ruporting (Ji uata paci	rayes
Project Number: 91	16029										<u></u>	1	*
PO Number:						,	1.00 (A)		·				
Turn Around Time	(TAT)		Watrix / Sampl	e Type (Select ONE)			Ti	ests / Analyt	e (Salas	t All that i		***************************************	
2 hours*		l A	l samples on fo	orm should be of SAME dditional forms as needed.	3. 3.5 3.5	Asbestos i	14 15 17		estos in	for the state of t		Metals-Tota	
		Althe Ose at	idinonal lottis as neeged.	PCM	(NIOSH 7	100)	☐ PLM		3 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	∠ Lead			
☐ 1 business day* †		Air	2 M	Solid	TEM	(AHERA)		PLM (Po	int Count)	RCRA	Vietals	
☐ 2 business days* † ☐ Aqueous			☐ Waste		(EPA Leve	10 to 10 to	PLM (Q	alitative	only)	TCLP			
■ 3 business days* † □ 5 business days* †		Bull		☐ Wastewater		cellaneou		NYELAF		$\mathcal{C}_{\mathcal{A}} = \mathcal{C}_{\mathcal{A}}$	☐ TCLP /	Lead	
* Not available for all tes				Water, Drinking Compliance	1.5			☐ CAELAF		ount)	TCLP / RCRA Metais		
A job-received past 3P			or Filler (13P)	✓ Compliance		. Dust (NI		TEM (C	atfield)		☐ TCLP /	Full (w/ orga	nics) 10 day
† will begin its TAT the next business day	101	☐ Pair	nt	Wipe, Composite	1	- FTIR (NI - XRD (NI	OSH 7602)	<u> </u>				licrobiology	
Schedule rush organics		☐ Sluc	5 4	Micro-Vac Dust	- Sinca	Other	JSH 7500)	TYPE OF R	BESTO			MPN & P/A)	
getals & weekend tes advance.	its in	□ _{Soil}				Other		USED:	ESPIKAI	OK .	☐ Mold Di	rect Exam	
	∖ D;	ate	Time	Sample ider	ntification	and the same	Wiped	pH/		Cime ²	Flow	/ Rate ³	T-4-14
Sample #	4000	oled**	Sampled**	(Employee, SSN, Bid	g, Materia	II, Type ¹)	Area (ft²)	Temp *	Start	Stop	Start	Stop	Total ⁴ Air
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				xcursion ² Beginning/End of nt in adequate quantity for dupl lead to a disclaimer on the repo									
	oled by		pic quantity, win	Relinquished			ut customer res	sponse held ove	r 30 days v	vill be voided a		r. mple Dispo	nsal
~ JAY LA	-		۸ ر	IAME JAY Wun		•	5	-	1-1	6	☐ Return	to Sender (s	
ATURE (b) (6				IGNATURE (b) (6)	· > '						1	al by lab for excessive wel	ight)
DATE/TIME	· 	16		ATE / TIME 2/15/11	. سنو	200		(p) (ố)		1_/	oping Meth	_ :
• —	-l		ļ.	1 7		0000	٠. ك	<i>f</i>			FX HD	UPS L	I USM
Sample return rec		**Requ		☐ Ice CI Chain-of-Custody documentation		R□SID/X nternally with					WB:	20°	75_



1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 22, 2016

Attention:

Jay Hurst

OCCU-TEC

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2176OCCA.3

Goodfellow - Bldg 115 Fitness Center Project

OCC#916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 17, 2016. These samples represent the TEM samples for the Goodfellow - Bldg 115 Fitness Center Project - OCC#916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eight (8) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S. TEM Laboratory Director



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow - Bldg 115 Fitness Center Project - OCC#916029

McCall and Spero Project No: MSE-2176OCCA.3

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I01	115-AA-001	NSD	NA	1424.85	0.0041	BDL (0.0041)*	BDL (15.2)*
I02	115-AA-002	NSD	NA	1432.90	0.0041	BDL (0.0041)*	BDL (15.2)*
I03	115-AA-003	NSD	NA	1440.95	0.0041	BDL (0.0041)*	BDL (15.2)*
I04	115-AA-004	NSD	NA	1449.00	0.0040	BDL (0.0040)*	BDL (15.2)*
105	115-AA-005	NSD	NA	1344.35	0.0044	BDL (0.0044)*	BDL (15.2)*
106	115-AA-006	NSD	NA	1344.35	0.0044	BDL (0.0044)*	BDL (15.2)*
107	115-AA-007	NSD	NA	1344.35	0.0044	BDL (0.0044)*	BDL (15.2)*
108	115-AA-008	NSD	NA	1344.35	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 7 Area Analyzed Per Sample: 0.0658mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber

B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable

BDL = Below Detectable Limit CH = Chrysotile

A = Amosite

SAED=Selected Area Electron Diffraction

EDS-Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director:

Date: 2 2 16

^{*} Single fiber detection limits are used when no structures are detected.



1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

	CCU-TEC INC.		816-231	1-5580 =	ıx #: 816-994	-3470
	y Hurst		816-231	04000		-0-710
		_	oject Numb	···· ——	-	
Relinquished by	To: jayhurst@occutec.com; jsmith@	_ Date: _	<u> </u>	<i>b</i>	Time: 5:0	opn
_						
Project Name:	Goodfellow - Bldg 115 Fith			$\lambda t \rightarrow$		
Turn-Around T	ime: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour	2(3) Day	45Day We	ekend Rush Af	ter Hour Rush
towice concent	0.8 (0.6)		3 day TAT	57		
	2128.0000	- i 1.	Ľ			
MSE Project #:		: INTA	9			
Samples Receiv		Date: (52/17/11	<u> </u>	Time: <u></u>	16 PM
	Analyzed by: TEM AHERA JEPA 400 FR Pa	rt 763			- "-	
Samples Prepar	ed By: (b) (6)	_ Method	: Burdett	& Rood	· · · · · · · · · · · · · · · · · · ·	
Samples Analyz	zed By:	_ Date:	211+	166		
						
Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time	x Liters/Minute	e = Volume
115 -AA-001	1st Floor - Office Area	748	1045	177	8,05	1424.85
T'	1st F1-Open Exercise	749	1047	178	8.05	1432.9
-003	1st Fl - Education	749	1048	179	8.05	1440.95
-004	1st F1 - Acrobics	750	1050	180	8.05	1449
-005	Bsmt - North	816	1103	167	8.05	1344.35
-006	Bont - East	816	1163	167	8.05	1344.35
-007	Bsm+ - & South	816	1103	167	8.05	1344,35
-008	Bomt- West Tunnel	816	1103	167	8.05	1344.35
-009	Blank					

Results Transmitted/Date: Fax/Phone By:

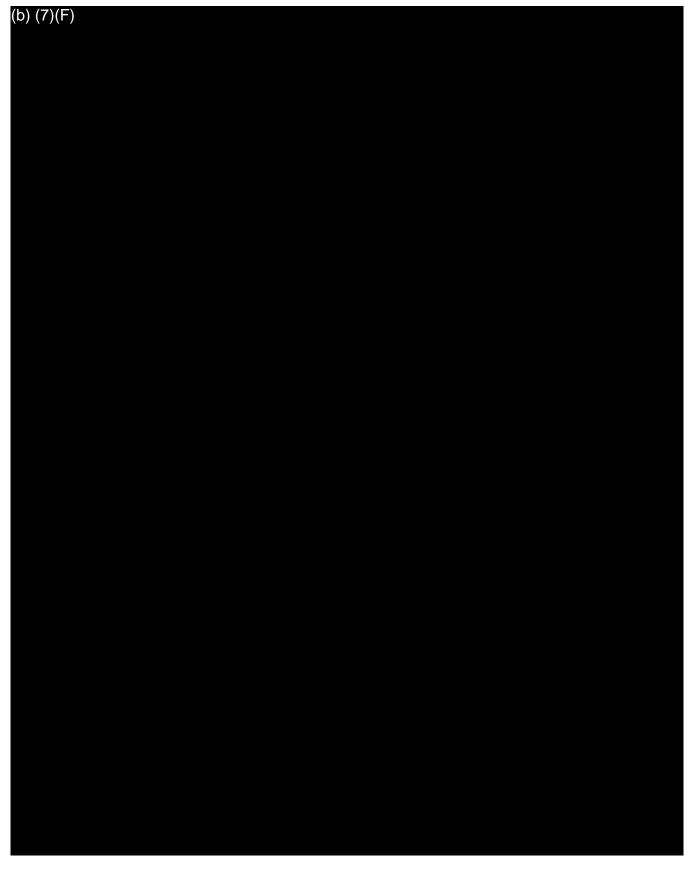
BUILDING 122B

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

	BUILDI	NG 122B						
Asbestos TEM Air Samples								
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level				
122B-AA-001	1st Floor Column B-03	<17.7	s/mm ²	70 s/mm ²				
122B-AA-002	1st Floor Column E-03	<17.7	s/mm ²	70 s/mm ²				
122B-AA-003	1st Floor Column D-02	<17.7	s/mm ²	70 s/mm ²				
122B-AA-004	1st Floor Column B-02	<17.7	s/mm ²	70 s/mm ²				
122B-AA-005	Basement Column B-02	<17.7	s/mm ²	70 s/mm ²				
122B-AA-006	Basement Column B-03	<17.7	s/mm ²	70 s/mm ²				
122B-AA-007	Basement Column C-02	<17.7	s/mm ²	70 s/mm ²				
122B-AA-008	Basement Column C-01	<17.7	s/mm ²	70 s/mm ²				
122B-AA-009	Blank	<17.7	s/mm ²	70 s/mm ²				
	Lead Air	Samples						
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level				
122B-PbA-001	1st Floor Column B-03	<3.03	μg/m³	30 μg/m ³				
122B-PbA-002	1st Floor Column H-03	<3.29	μg/m³	30 μg/m ³				
122B-PbA-003	1st Floor Column D-01	<3.03	μg/m³	30 μg/m ³				
122B-PbA-004	1st Floor Column B-02	<3.03	μg/m³	30 μg/m ³				
122B-PbA-005	Basement Column A-03	<3.15	μg/m³	30 μg/m ³				
122B-PbA-006	Basement Column B-01	<3.15	μg/m ³	30 μg/m ³				
122B-PbA-007	Basement Column C-03	<3.15	μg/m ³	30 μg/m ³				
122B-PbA-008	Basement Column D-01	<3.17	μg/m ³	30 μg/m ³				
122B-PbA-009	Blank	<2.00	μg	30 μg/m ³				

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation 4300 Goodfellow Boulevard St. Louis , Missouri 63120

BUILDING 122B									
Lead Surface Dust Wipe Samples									
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level					
122B-PbW-001	1st Floor - Column A.5 2 - Top of Duct	831	μg/ft²	200 μg/ft ²					
122B-PbW-002	1st Floor - Column E 1.5 Shop Table	52.7	μg/ft²	$200 \mu g/ft^2$					
	Lead Surface Dust Micro	-vac Samples							
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level					
122B-PbV-001	1st Floor - Column A.5 2.5 - Top of Light Fixture	<92.9	μg/ft²	$200 \mu g/ft^2$					
122B-PbV-002	1st Floor - Column C.5 2.5 - Office Top of Ceiling Tile	93.3	μg/ft²	200 μg/ft ²					
122B-PbV-003	1st Floor - Column B 1.5 - Book Shelf	<92.9	μg/ft ²	$200 \ \mu g/ft^2$					



SAMPLE LEGEND

▲ = SAMPLE LOCATION

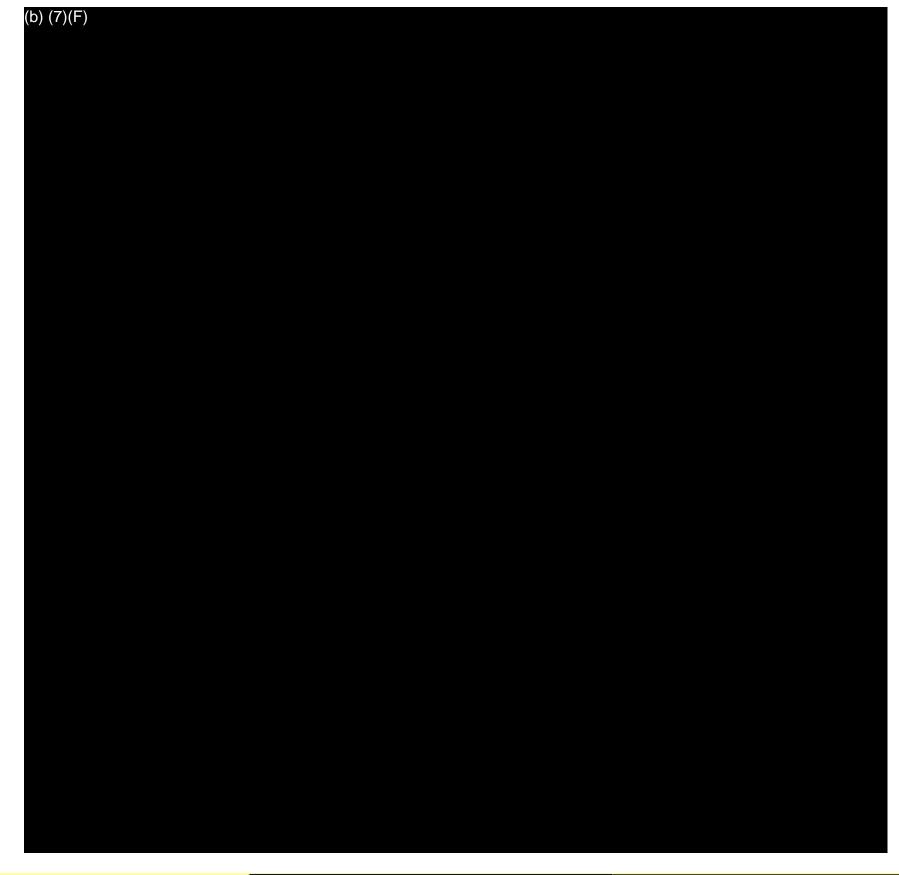
AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE

PbW = LEAD WIPE SAMPLE PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH
GOODFELLOW MO0620 (122B) - Basement	SUB. DATE: 03/04/16
CLIENT NAME:	
GENERAL SERVICES ADMINISTRATION	SCALE: NTS
PROJECT NAME:	30/ (EE: 1413
GOODEELLOW GS-P-16-16-GZ7025	916029



SAMPLE LEGEND

▲ = SAMPLE LOCATION

AA = ASBESTOS AIR SAMPLE

PbA = LEAD AIR SAMPLE PbW = LEAD WIPE SAMPLE

PbV = LEAD MICRO-VAC SAMPLE



TITLE:	DRAWN by: JWH					
GOODFELLOW MO0620 (122B) - 1st FLOOR	SUB. DATE: 03/04/16					
GENERAL SERVICES ADMINISTRATION						
PROJECT NAME:	SCALE:	NTS				
GOODFELLOW GS-P-16-16-GZ7025	916029					

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Order #: 159646

 Matrix
 Wipe

 Received
 02/23/16

 Analyzed
 02/23/16

 Reported
 02/23/16

Project Goodfellow Federal Center-122B

Location St Louis, MO **Number** 916029

	0.00=0					
Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159646-001	122B-PbW-001	1st FI Office Top Of Duct	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	831 µg/wipe	831 µg/ft2	20.0 μg/ft2
159646-002	122B-PbW-002	1st Fl Shop Table	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	52.7 μg/wipe	52.7 μg/ft2	10.0 μg/ft2
159646-003	122B-PbV-001	1st FI Above Ceiling	02/16/16			
Lead		EPA 7000B - Vacwipe / 3050	OB 0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159646-004	122B-PbV-002	1st FI Ceiling Tile	02/16/16			
Lead		EPA 7000B - Vacwipe / 3050	OB 0.108 ft2	10.0 μg/wipe	93.3 μg/ft2	92.9 µg/ft2
159646-005	122B-PbV-003	1st Fl Book Shelf	02/16/16			
Lead		EPA 7000B - Vacwipe / 3050	OB 0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 μg/ft2

Analyst OHE 159646-02/23/16 08:04 PM (b) (6)

Reviewed By **Sultan Al-Johani**Metals Team Leader



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 e-mail: info@slabinc.com www.slabinc.com



Submitting Co.	OCCU-TE	DCCU-TEC, Inc.					Lab WO# Pho			Phone 816-230-5580						
4151 N. Mulberry	Drive, S	uite 275).				Acct#	3505			Fax / Email	816-99	4-3470 / j	ayhurst@oc	cutec.com	
Kansas City, MO	ansas City, MO 64116						*State of Collection	Missouri	i de la companya di seriesa di seriesa di seriesa di seriesa di seriesa di seriesa di seriesa di seriesa di se Seriesa di seriesa di s	F	**Cert. leguired		Yes	No.		
Project Name:	Goodfe	llow F	ederal (ent	er- /2	22 B			ial Instructio	ons [in	clude re	quests f	or special	reporting or	data pack	ages]
Project Location:	St. Lou	is, MO	% 										•	•		
Project Number:	916029													•		
PO Number:																
Turn Around	Time		// / Sa	mple	Type (Sele	ect ONE)			Te	sts / A	nalytes	(Select /	ALL that A	pply)		
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2 business day		Aqu		•	☐ Waste		□ TEM	(EPA Level	II)			itative on				-
> business days		Bulk			☐ Waste		<u> </u>	raa ji jarii s		1		98.1/.4/.6				The state of
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* not available for a	all tests	☐ Pair	ıt.	-		Composite		a - FTIR (NIC		F	OR ASI	BESTOS	AIR:	1=	:	
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metals & weekens advance.	l tests in	— □ Soil	-	-				I Discol From		USE						
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Sample #	\$5500 (MICO)	pled**	Sample 3 2	6.00		ee, SSN, Bldg			Area (ft²)	Ter	np *	Start	Stop	Start	Stop	Air
122B-PbW-0	01 &	16-16	1330	7	1st Fl	Office-	10put	Duct	1 5F					1 11		4-54
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	570															
122B-PbV-0	01				ld F1	Above	e (c,/,	~~a	100cm2					1		
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Sa	impled b	У			F	Relinquished	to lab b	у	7	1	22	-(-	-	Sa If sai	mple Disp nples over req. rer to Fee Sche	osal weight
ME Joff	<u> </u>	<u>H</u>		N	IAME	1. FF S.	.,H		<u> </u>	ئ				☐ Return f	o Sender (s	hipping fees)
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DATE/TIME 2-16-16 /330 DATE/TIME 2-21				2-21-1	Shipping Method 1800 UPS D											
		. ,		اً	TO STEEL STORES			,						□ HĐ	□_DB	
☐ Sample return		J - 1				Cl	_	ROSO	7 1				port.		/	<i>X</i>

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275

Kansas City, MO 64116

Attn:

Project: Goodfellow Bldg 122B

Location: St Louis, MO 916029

Order #: 159037

Matrix Air

 Received
 02/17/16

 Analyzed
 02/17/16

 Reported
 02/18/16

PO Number:

Mullibel.	910029			FO Nu	ilibei.		
Sample ID	Cust. ID	Location	Date	Time	Flow	Volume)
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
159037-001	122B-PbA-001	1 FL Near Column B3	02/11/16	182 min	3.63 L/min	661 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.03 µg/m3	<1.15 µg/m3
159037-002	122B-PbA-002	1 FL Near Column H3	02/11/16	182 min	3.34 L/min	608 L	
Lead		NIOSH 7082M	 	<2.00 µg	2.00 µg	<3.29 µg/m3	<1.25 µg/m3
159037-003	122B-PbA-003	1 FL Near Column D1	02/11/16	182 min	3.63 L/min	661 L	
Lead		NIOSH 7082M	 	<2.00 µg	2.00 µg	<3.03 µg/m3	<1.15 µg/m3
159037-004	122B-PbA-004	1 FL Near Column B2	02/11/16	182 min	3.63 L/min	661 L	
Lead		NIOSH 7082M	 	<2.00 µg	2.00 µg	<3.03 µg/m3	<1.15 µg/m3
159037-005	122B-PbA-005	Basement Near A3	02/11/16	175 min	3.63 L/min	635 L	
Lead		NIOSH 7082M	 	<2.00 µg	2.00 µg	<3.15 μg/m3	<1.15 µg/m3
159037-006	122B-PbA-006	Basement Near B1	02/11/16	175 min	3.63 L/min	635 L	
Lead		NIOSH 7082M	1 1 1	<2.00 µg	2.00 µg	<3.15 μg/m3	<1.15 µg/m3
159037-007	122B-PbA-007	Basement Near C3	02/11/16	175 min	3.63 L/min	635 L	
Lead		NIOSH 7082M	1 1 1	<2.00 µg	2.00 µg	<3.15 µg/m3	<1.15 µg/m3
159037-008	122B-PbA-008	Basement Near D1	02/11/16	174 min	3.63 L/min	632 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.17 µg/m3	<1.15 µg/m3
159037-009	122B-PbA-009	Blank	02/11/16				
Lead		NIOSH 7082M	! ! !	<2.00 µg	2.00 µg	1	

Analyst: OHE

159037-02/18/16 12:25 PM

(b) (6)

Re

Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter PEL

Lead $0.0500 \text{ mg/m}^3 [50.0 \text{ } \mu\text{g/m}^3]$

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

ING. 5117

V:\159\159037

2512 West Cary Street, Richmond, Virginia 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475 www.slabinc.com e-mail: info@slabinc.com

Submitting Co.	OCCU-TE	C Inc.			Lab WO#			Ph	one	74000				
4151 N. Mulberry	Drive, S	uite 27	5		Acct#	3505	· .	1	ax /		0-5580			
Kansas City, MO 64116								C ***C	Cert.	. 17 9/19 <u>2</u>	4-3470 / j	jayhurst@o ⊠ No	ccutec.co	m XX (1)
Project Name: Goodfellow - Bldg 122 B						'	ial Instructi	141 (154 p. 17)	25 25 1	uests f	or special	renorting o	r data nao	kannal
Project Location:	St. Loui	s, <u>MO</u>				*	·	<u>-</u>			- openiu	reporting 0	- data pac	rages]
Project Number:	316029								_				 -	
PO Number:	····				-1.					_		 -	<u> </u>	
Turn Around Tim	e (TAT)		Matrix / Sampi	e Type (Select ONE)	T		т,	reto / Ana	h.ta. (6)	. ,				
2 hours		A/	ll samples on fo	orm should be of SAME		Asbestos i	A	1	sbesto:		LL that A		Wetals-Tot	10 1
☐ Same day* †	×	1110	<u>ix iype.</u> Use ad	dditional forms as needed.	□РСМ	(NIOSH 74	00)	☐ PLM		<u></u> .	t.:	⊠ Lead	NOLAIS- IOL	21
1 business day	t (2			Solid Solid	TEM	(AHERA)	*.	☐ PLM	(Point C	Count)	7.	RCRA N	fetals	
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3 business days	•	☐ Bull		☐ Wastewater	Mis	scellaneou	Tests	☐ NYEL	AP .		,	☐ TCLP/I		
5 business days	-) Water, Drinking	☐ Total	Dust (NIOS	SH 0500)	☐ CAEL	AP (Poi	int Cou	nt)	TCLP / F	RCRA Meta	ıls
* Not available for all t			ol Filter (TSP)	Compliance	Resp	Dust (NIC	SH 0600)	☐ TEM ((Chatfiel	ld)		TCLP / F	full (w/ orga	anics) 10 day
A job received past: † will begin its TAT the	2			Wipe	I	- FTIR (NIC		□					licrobiolog	
next business day		Pair		Wipe, Composite	☐ Silica	- XRD (NIC	OSH 7500)	FOR	ASBE	STOS	AIR:	BACT (A	1PN & P/A)	
metals & weekend i	e rush organics, multi- & weekend tests in advance.					Other TYPE OF RESPIRATOR				R	Mold Direct Exam			
advance.	Taring St. Joseph	And the second	To company a company		<u> </u>			USED:						
Sample #	197779 CALA	ite oled**	Time Sampled**	Sample Iden (Employee, SSN, Bldg		il. Tvpe¹)	Wiped Area (ft²)	pH / Temp '		Tir tart	ne² Stop	T .	Rate ³	- Total ⁴
122B-PLA-00	1 2-1	1-16	1300	1st Floor - Nea		^ -		1011,0		OZ	1604	3.63	3.63	Air 660.66
				1st Fl Near	Col 1	14-3			13	02	1604	3.63	3.05	607.88
-003				Ist FI Near	(el	D-1			13	'UZ	1604	<u> </u>		660.66
-004				IstFI Nogr	Col	B-2			130	02	1604	3.63	3.63	660.66
-005			V	Basement - Neo	·A	-3			13.	18	1603	3.63	3.63	635.25
-006	7115	y		Bsmt - Near	· B	-1			/3	08	1603	3.63		635.Z
-007				Bomt - Nour	- C-	3	7.		13	08	1603	3.63		635.2
-008				BSMT-NOAM BSMT-NEAM BLANK	Δ	-/_			13	09	1603	3.63	3.63	596.8
099				BLANK										
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	npled by			Relinquished	_	1				- [-		nple Disp	
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Sample return requested Ambient temp Ice CI Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation						R S S	Rece	IVE			,	WB:	9 1	<u>S</u>



1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

February 22, 2016

Attention:

Jay Hurst

OCCU-TEC

Subject:

Analysis of air samples for asbestos mineral fibers by

Transmission Electron Microscopy (TEM)

RE:

MSE-2176OCCA.1

Goodfellow Building 122B Project

OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 17, 2016. These samples represent the TEM samples for the Goodfellow Building 122B Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eight (8) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

S. Dewayne Lear, B.S. TEM Laboratory Director



SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow Building 122B Project - OCC# 916029

McCall and Spero Project No: MSE-2176OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)	_
I01	122B-AA-001	NSD	NA	1452.33	0.0047	BDL (0.0047)*	BDL (17.7)*	1
102	122B-AA-002	NSD	NA	1400.70	0.0049	BDL (0.0049)*	BDL (17.7)*	I
I03	122B-AA-003	NSD	NA	1384.60	0.0049	BDL (0.0049)*	BDL (17.7)*	1
I04	122B-AA-004	NSD	NA	1392.65	0.0049	BDL (0.0049)*	BDL (17.7)*	1
I05	122B-AA-005	NSD	NA	1519.02	0.0045	BDL (0.0045)*	BDL (17.7)*	1
I06	122B-AA-006	NSD	NA	1408.75	0.0048	BDL (0.0048)*	BDL (17.7)*	1
107	122B-AA-007	NSD	NA	1424.85	0.0048	BDL (0.0048)*	BDL (17.7)*	l
108	122B-AA-008	NSD	NA	1440.95	0.0047	BDL (0.0047)*	BDL (17.7)*	1

Filter Type: MCE Filter diameter: 25mm Effective filter Area: 385mm²

Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm² Grid Openings Analyzed Per Sample: 6 Area Analyzed Per Sample: 0.0564mm² Non-Asbestos Debris: Non-Fibrous Debris

Notes:

F=Fiber B=Bundle

C=Cluster

M=Matrix

NSD=No Structures Detected

NA = Not Applicable BDL = Below Dete SAED=Selected Area Electron Diffraction

BDL = Below Detectable Limit CH = Chrysotile A = A Electron Diffraction EDS-Energy Dispersive Spectrometry

A = Amosite

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

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^{*} Single fiber detection limits are used when no structures are detected.



1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

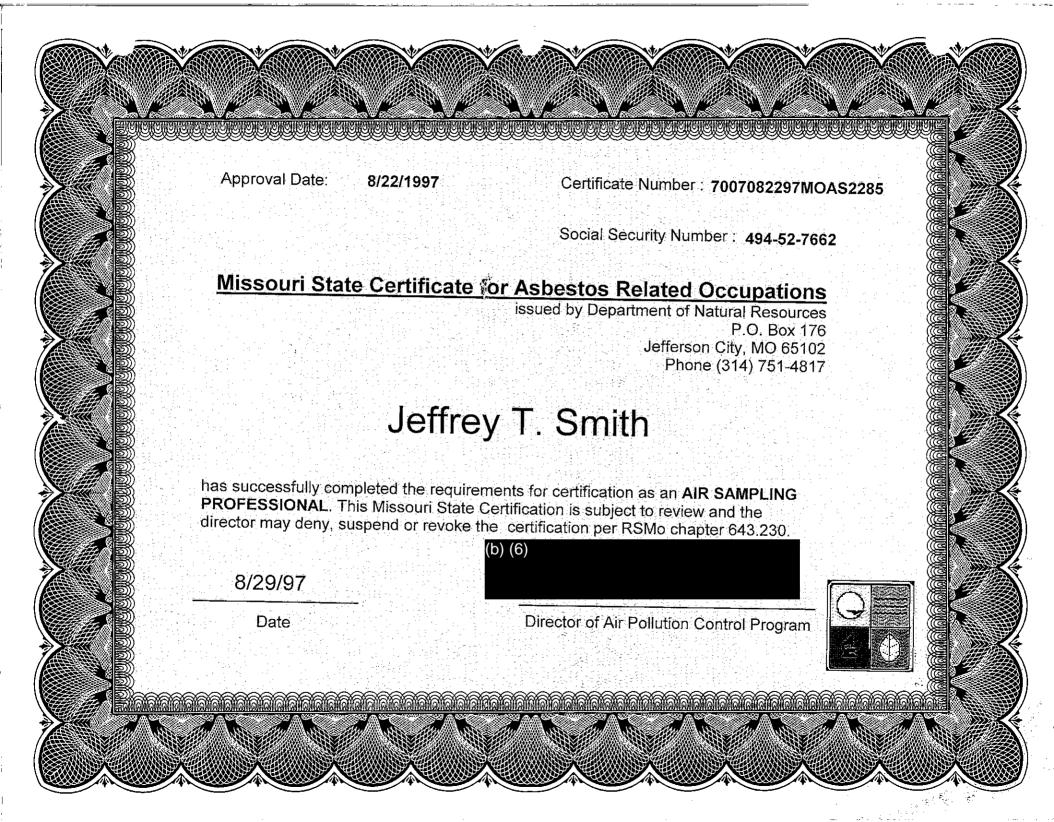
E-mail: customerservice@mselabs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: O	CCU-TEC INC.	Telephone #:	816-231	-5580 Fax	x #: 816-994-3	3470
	y Hurst		ject Numb	0.4000		
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	To: jayhurst@occutec.com; jsmith@					·•
Project Name:	Goodfellow Building 122		3D4	ল		
Turn-Around T	ime: (Circle One) 4 Hour 6-8 Hour(same day)	24 Hour	(2-3 Day)		kend Rush Afte	r Hour Rush
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MSE Project #:	MSE- 7 1710()((A) Comments	: Inta	et -			
Samples Receive	(b) (6)	Date: 0	2/17/11	0	Time: 10:0	OAM
	analyzed by: \ TEM AHERA \ EDA 40 GFR Pa	rt 763	11			
Samples Prepar	red By: (b) (6)	Method:	Burdett	& Rood		
Samples Analyz		Date:	2/18/	(do		
	_		****			
Client ID	Sample Location / Type	Start	Stop	Total Time	x Liters/Minute =	= Volume
Number	(I)inside(O)outside(B)blank (P)personal(A)ambient	Time	Time		8.395	
122B-AA-001	1StFloor Column B-3	0913	1206	173		1452.33
122B-AA-002	1st Floor Column E-3	0913	1207	174	8.05	1400.7
122B-AA-003	1st Floor Column D-2	0915	1207	172	8.05	1384.6
122B-AA-004		0915	1208	173	8.05	1392.65
122B-AA-005		0930	1224	174	8.73	1519.02
122B-AA-006	BASEMENT Column B-3	0928	123-3	175	8.05	1408.75
122B-AA-007	BASEMENT Column C-2	0926	1223	177	8.05	1424.85
122B-AA-008	BASEMENT Column C-1	0925	1224	179	8.05	1440.95
122B-AA-009	BLANK					

Results Transmitted/Date: Fax/Phone By:

APPENDIX B QUALIFICATIONS AND LICENSE DOCUMENTATION



STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

JEFFREY SMITH

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

Lead Risk Assessor

Category of License

Issuance Date:

3/16/2015

Expiration Date:

3/16/2017

License Number:

010316-200089640





Gail Vasterling
Director
Department of Health and Senior Services

Expiration Date: N/A Certificate Number: 7070111MOASP13670

Training Date: 7/1/2011

Missouri State Certificate for Asbestos Related Occupations
issued by Department of Natural Resources
P.O. Box 176
Jefferson City, MO 65102
Phone (573) 751-4817

Justin E. Arnold

has successfully completed the requirements for certification as a AIR SAMPLING
PROFESSIONAL. This Missouri State Certification is subject to review and the director may deny,

suspend or revoke the certification per RSMo chapter 643.230.

(b) (6)

7/5/2011

Date

Director of Air Pollution Control Program

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

JUSTIN ARNOLD

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

Lead Risk Assessor

Category of License

Issuance Date:

6/11/2014

Expiration Date:

6/11/2016

License Number:

120611-300003622





Gail Vasterling
Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102





Jeremiah W. (Jay) Nixon Governor

November 21, 2014

JAY HURST 5860 N KIRKWOOD AVENUE KANSAS CITY MO 64151-

Dear Licensee:

After a review of your renewal application for a lead occupation license, you have been approved for a Lead Risk Assessor license.

Please find enclosed your Lead Risk Assessor license certificate and photo identification badge. Note the date your Lead Risk Assessor license expires. A renewal application will need to be completed and submitted 60 days prior to the expiration date. Please insure that refresher training is completed within twelve months prior to your license expiration date.

If you intend to perform any regulated lead-bearing substance activity including risk assessment, lead inspection, lead abatement or lead abatement project design, you must be employed by a licensed lead abatement contractor.

Please have your identification badge with you at all times while conducting lead abatement activities.

If you have any questions or need additional information, please contact our office at 573/526-5873 or toll free at 888-837-0927.

Sincerely, (b) (6)

Angie DeBroeck Lead Licensing Program

Enclosures



www.health.mo.gov

APPENDIX C LABORATORY CERTIFICATION DOCUMENTATION

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101895-0

McCall and Spero Environmental, Inc.

Louisville, KY

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

Asbestos Fiber Analysis

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

2015-07-01 through 2016-06-30

Effective Dates





For the National Voluntary Laboratory Accreditation Program



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

Schneider Laboratories Global, Inc.

2512 West Cary Street, Richmond, VA 23220-5117

Laboratory ID: 100527

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

INDUSTRIAL HYGIENE	Accreditation Expires: 06/01/2017
ENVIRONMENTAL LEAD	Accreditation Expires: 06/01/2017
ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires: 06/01/2017
FOOD	Accreditation Expires:
1 LINIOUE SCOPES	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

(b) (6)

Gerald Schultz, CIH
Chairperson, Analytical Accreditation Board

(b) (6)

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 14: 03/26/2014

Date Issued: 08/31/2015