



100 NW Business Park Lane
Riverside, MO 64150
Telephone: 816.231.5580
Fax: 816.231.5641
www.occutec.com

October 11, 2017

Ms. Diane Czarnecki
Industrial Hygienist
Facilities Management Division
GSA Public Buildings Service – Heartland Region
2300 Main Street
Kansas City, Missouri 64108

**RE: Goodfellow Federal Center - Metals in Air Investigation
Buildings – 102E, 103, 103D, 103E, 103F, 104, 104E, 104F, 105, 105E, 105F,
105L, 106, 107, 110, and 115
4300 Goodfellow Boulevard
St. Louis, Missouri 63120
OCCU-TEC Project No. 917004**

Dear Ms. Czarnecki:

Thank you for the opportunity to assist the General Services Administration (GSA) with the Resource Conservation and Recovery Act (RCRA) metals air sampling investigation of the above referenced buildings located at the Goodfellow Federal Complex, in St. Louis, Missouri. OCCU-TEC understands that the purpose of the investigation was to provide additional sampling data regarding pre-existing conditions noted in investigation reports previously prepared for the facility. The following report summarizes the sample collection activities and the laboratory analytical results of the samples submitted.

From August 21, 2017 through September 20, 2017, Missouri licensed air sampling professionals from OCCU-TEC conducted air sampling for the presence of seven of the RCRA metals including Silver, Arsenic, Barium, Cadmium, Chromium, Lead, and Selenium. These sampling activities were conducted on the following sixteen buildings: 102E, 103, 103D, 103E, 103F, 104, 104E, 104F, 105, 105E, 105F, 105L, 106, 107, 110, and 115.

The proposed sampling scheme, the numbers of samples, sample distribution and general methodology was developed based on previous investigation methodology and

coordination with the GSA. Sample locations and samples collected from discretionary locations were determined by OCCU-TEC field personnel while on-site.

Resource Conservation and Recovery Act Metals Air Sampling

Air sampling for RCRA metals was conducted in each building included in the investigation. The air samples 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 a method sufficient to collect a minimum sample volume of 350 liters. Air samples were submitted under chain-of-custody to Sanair Technologies Laboratory (Sanair) for independent analysis of RCRA metals according to EPA M3050B/6010C. Sanair is accredited by the American Industrial Hygiene Association (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP).

Results of the air sampling are summarized in the table below by identifying the range of results for each of the seven metals that were sampled. **Samples with a “<” sign indicate that the results were below the laboratory’s method reporting limit.**

Analysis	Lowest Concentration (µg/sq. ft.)	Highest Concentration (µg/sq. ft.)
Arsenic	<5.17	<8.45
Barium	<5.17	<8.45
Cadmium	<5.17	<8.45
Total Chromium	<5.17	<8.45
Lead	<5.17	<8.45
Selenium	<5.17	<8.45
Silver	<5.17	<8.45

Results of the air samples collected in each building indicate that **none** of the 251 air samples collected contained concentrations of RCRA metals above the laboratory’s method reporting limit. Sample locations and the corresponding results for each building are summarized in the enclosed tables and the laboratory analytical results are included in the attached tables. The air sampling professional’s Missouri Lead license is included in Appendix A.

It should be noted that this air sampling investigation was only a screening of airborne RCRA metals and should not be interpreted or used to determine compliance or non-compliance with OSHA personnel monitoring regulations.

OCCU-TEC appreciates the opportunity to work with GSA on this project. If you have any questions concerning this report, or if we may be of any additional service, please feel free to contact us.

Sincerely,

(b) (6)

Jeff T. Smith
Senior Project Manager

(b) (6)

Jay Hurst
Director of Operations (QA/QC)

Tables:

- A-1: 102E Sample Summary Table and Laboratory Reports
- A-2: 103 Summary Table and Laboratory Reports
- A-3: 103D Summary Table and Laboratory Reports
- A-4: 103E Summary Table and Laboratory Reports
- A-5: 103F Summary Table and Laboratory Reports
- A-6: 104 Summary Table and Laboratory Reports
- A-7: 104E Summary Table and Laboratory Reports
- A-8: 104F Summary Table and Laboratory Reports
- A-9: 105 Summary Table and Laboratory Reports
- A-10: 105E Summary Table and Laboratory Reports
- A-11: 105F Summary Table and Laboratory Reports
- A-12: 105L Summary Table and Laboratory Reports
- A-13: 106 Summary Table and Laboratory Reports
- A-14: 107 Summary Table and Laboratory Reports
- A-15: 110 Summary Table and Laboratory Reports
- A-16: 115 Summary Table and Laboratory Reports

Appendices:

- A: Qualifications and Licenses

Tables and Laboratory Reports



Goodfellow Federal Center Airborne Metals Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 102E			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
102E-MetA-01	1st Floor Column N 21	< 6.65	$\mu\text{g}/\text{m}^3$
102E-MetA-02	1st Floor Column N 25	< 6.65	$\mu\text{g}/\text{m}^3$
102E-MetA-03	1st Floor Column P 26	< 6.65	$\mu\text{g}/\text{m}^3$
102E-MetA-04	1st Floor Column L 27	< 6.65	$\mu\text{g}/\text{m}^3$
102E-MetA-05	Voided Sample	NA	$\mu\text{g}/\text{m}^3$
102E-MetA-06	2nd Floor Column P 23	< 6.65	$\mu\text{g}/\text{m}^3$
102E-MetA-07	2nd Floor Column L 26	< 6.65	$\mu\text{g}/\text{m}^3$
102E-MetA-08	2nd Floor Column L 28	< 6.65	$\mu\text{g}/\text{m}^3$
102E-MetA-09	Roof Exterior	< 6.65	$\mu\text{g}/\text{m}^4$
102E-MetA-10	Blank	< 2.5	$\mu\text{g}/\text{m}^5$

< = below limit of detection

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

SanAir Technologies Laboratory

Analysis Report

prepared for

Occu-Tec

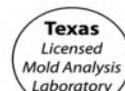
Report Date: 9/20/2017
Project Name: IAQ Sampling
Building 102E
Project #: 917004.002
SanAir ID#: 17036186



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

Occu-Tec
100 NW Business Park Lane
Riverside, MO 64150

September 20, 2017

SanAir ID # 17036186
Project Name: IAQ Sampling Building 102E
Project Number: 917004.002

Dear Justin Arnold,

We at SanAir would like to thank you for the work you recently submitted. The 9 sample(s) were received on Wednesday, September 13, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 102E-MetA-01, 102E-MetA-02, 102E-MetA-03, 102E-MetA-04, 102E-MetA-06, 102E-MetA-07, 102E-MetA-08, 102E-MetA-09, 102E-MetA-10.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

(b) (6)

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:

9 sample(s) in Good condition



1551 Oakbridge Dr STE B
 Powhatan, VA 23139
 804.897.1177 / 888.895.1177
 Fax 804.897.0070
 sanair.com

**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 17036186

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-810-3276
Address: 100 NW Business Park Lane	Project Name: IAQ Sampling Building 102E	Phone #: 816-994-3428
City, St., Zip: Riverside, MO 64150	Date Collected: 9-8-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in:	Email:

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead <input type="checkbox"/>	ICP-total concentration of metals (please list metals): Do Not Include Mercury		
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>			
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead <input type="checkbox"/>			
<input type="checkbox"/> Other:	TCLP for RCRA 8 Metals <input type="checkbox"/>			
Turn Around Time	Same Day <input type="checkbox"/>	1 Day <input type="checkbox"/>	2 days <input type="checkbox"/>	3 Days <input type="checkbox"/>
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
102E-MetA-01	9-8-2017	Column N 21 1st Floor	2.35	8:45	11:25	376 L
102E-MetA-02	9-8-2017	Column N 25 - 1st Floor	2.35	8:48	11:28	376 L
102E-MetA-03	9-8-2017	Column P 26 - 1st Floor	2.35	8:51	11:31	376 L
102E-MetA-04	9-8-2017	Column L 27 - 1st Floor	2.35	8:53	11:33	376 L
102E-MetA-05	9-8-2017	VOIDED Sample				
102E-MetA-06	9-8-2017	Column P 23 - 2nd Floor	2.35	8:59	11:39	376 L
102E-MetA-07	9-8-2017	Column L 26 - 2nd Floor	2.35	9:02	11:42	376 L
102E-MetA-08	9-8-2017	Column L 28 - 2nd Floor	2.35	9:05	11:45	376 L
102E-MetA-09	9-8-2017	Roof	2.35	9:09	11:49	376 L
102E-MetA-10	9-8-2017	Blank	NA	NA	NA	NA

Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
(b) (6)	9-12-17		(b) (6)	SEP 13 2017	10:30 AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



SanAir Technologies Laboratory, Inc

1551 Oakbridge Dr, Suite B Powhatan, VA 23139
 804.897.1177 Toll Free 888.895.1177 Fax: 804.897.0070
www.sanair.com

SanAir ID Number
 17036186
 Final Report

email:iaq@sanair.com

Name: Occu-Tec
Address: 100 NW Business Park lane
 Riverside, MO 64150

Project Number: 917004.002
P.O. Number:
Project Name: IAQ Sampling Building 102E

Collected Date: 9/8/2017
Received Date: 9/13/2017 10:30 AM
Report Date: 9/20/2017 11:55 AM
Analyst : C. Peterson

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036186-01	102E-MetA-01	Silver (Ag)	Column N 21 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036186-02	102E-MetA-02	Silver (Ag)	Column N 25 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036186-03	102E-MetA-03	Silver (Ag)	Column P 26 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/15/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036186-04	102E-MetA-04	Silver (Ag)	Column L 27 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036186-06	102E-MetA-06	Silver (Ag)	Column P 23 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036186-07	102E-MetA-07	Silver (Ag)	Column L 26 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036186-08	102E-MetA-08	Silver (Ag)	Column L 28 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036186-09	102E-MetA-09	Silver (Ag)	Roof	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/15/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036186-10	102E-MetA-10	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)

Date: 9/15/2017

Reviewed: (b) (6)

Date: 9/20/2017

Disclaimer

- Results relate only to the items tested
- Results are not corrected for blanks
- All quality control results are acceptable unless otherwise noted
- SanAir Technologies Laboratory, Inc is not responsible for sample collection or interpretation made by others
- This report does not constitute endorsement by AIHA/NVLAP and/or any other U.S. governmental Agencies; and may not be certified by every local, state or federal regulatory
- SanAir Technologies Laboratory, Inc only assures the precision and accuracy of the data it generates and assumes no responsibility for errors or biasing that occur during collection prior
- SanAir's Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using wipe materials meeting ASTM-E1792. The MDL and RL may not be relevant or applicable for

Lead Exposure Limits

Air

- 1.5 µg/m³ EPA National Ambient Air Quality Standard (Quality Time – Weight Average)
- 30 µg/m³ OSHA Action Level (8-hour time weighted average)
- 50 µg/m³ OSHA Permissible Exposure Limit (General Industry)
- 50 µg/m³ OSHA Permissible Exposure Limit (Construction)

Dust

- 10 µg/ft² HUD Clearance Level for Floors
- 100 µg/ft² HUD Clearance Level for Interior Window Sills
- 100 µg/ft² HUD Clearance Level for Window Troughs
- 40 µg/ft² HUD Clearance Level for Porch Floors

Water

15 ppb ($\mu\text{g}/\text{liter}$) EPA Maximum Containment Level

Paint

0.5% by weight HUD definition of lead based paint

1.0 mg/cm^2

5000 ppm

Soil

400 ppm HUD-Play areas and high-contact areas for children

TCLP EPA Limits:

Silver (Ag): 5.0 mg/L

Arsenic (As): 5.0 mg/L

Barium (Ba): 100 mg/L

Cadmium (Cd): 1.0 mg/L

Chromium (Cr): 5.0 mg/L

Mercury (Hg): 0.2 mg/L

Lead (Pb): 5.0 mg/L

Selenium (Se): 1.0 mg/L

Goodfellow Federal Center Airborne Metals Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 103D			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
103D-MetA-01	1st Floor Column P 39	< 6.65	µg/m ³
103D-MetA-02	1st Floor Column N 36	< 6.65	µg/m ³
103D-MetA-03	1st Floor Column L 35 1/2	< 6.65	µg/m ³
103D-MetA-04	1st Floor Column N 31	< 8.45	µg/m ³
103D-MetA-05	2nd Floor Column N 31	< 6.65	µg/m ³
103D-MetA-06	Blank	< 2.5	µg/m ³
103D-MetA-07	2nd Floor Column L 38	< 7.97	µg/m ³
103D-MetA-08	Roof North End Exterior	< 6.65	µg/m ³

< = below limit of detection

µg/m³ = micrograms per cubic meter

SanAir Technologies Laboratory

Analysis Report

prepared for

Occu-Tec

Report Date: 10/4/2017
Project Name: IAQ Sampling
Building 103D
Project #: 917138
SanAir ID#: 17038531



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

Occu-Tec
100 NW Business Park Lane
Riverside, MO 64150

October 4, 2017

SanAir ID # 17038531
Project Name: IAQ Sampling Building 103D
Project Number: 917138

Dear Justin Arnold,

We at SanAir would like to thank you for the work you recently submitted. The 8 sample(s) were received on Wednesday, September 27, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 103D-MetA-01, 103D-MetA-02, 103D-MetA-03, 103D-MetA-04, 103D-MetA-05, 103D-MetA-06, 103D-MetA-07, 103D-MetA-08.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

(b) (6)

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:

8 sample(s) in Good condition



1551 Oakbridge Dr STE B
 Powhatan, VA 23139
 804.897.1177 / 888.895.1177
 Fax 804.897.0070
 sanair.com

**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 17038531

Company: OCCU-TEC	Project #: 917138	Phone #: 816-810-3276
Address: 100 NW Business Park Lane	Project Name: IAQ Sampling Building 103D	Phone #: 816-994-3428
City, St., Zip: Riverside, MO 64150	Date Collected: 09-19-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jamold@occutec.com
Account #:	U.S. State Collected in: Missouri	Email:

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead	ICP-total concentration of metals (please list metals): Do Not Include Mercury
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>	
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead	
Other:	TCLP for RCRA 8 Metals	

Turn Around Time	Same Day	1 Day	2 days	3 Days
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
103D-MetA-01	9-5-2017	1st Floor Column P 39	2.35	10:43	13:23	376
103D-MetA-02	9-5-2017	1st Floor Column N 36	2.35	10:46	13:26	376
103D-MetA-03	9-5-2017	1st Floor Column L 35 1/2	2.35	10:49	13:29	376
103D-MetA-04	9-5-2017	1st Floor Column N 31	2.35	10:52	13:32	296
103D-MetA-05	9-5-2017	2nd Floor Column N 31	2.35	10:56	13:36	376
103D-MetA-06	9-5-2017	Blank	NA	NA	NA	NA
103D-MetA-07	9-22-2017	2nd Floor Column 38	2.35	8:18	10:58	313.6
103D-MetA-08	9-22-2017	Roof North End	2.35	8:21	11:01	376

Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
(b) (6)	9-24-17	2:00 PM	(b) (6)	SEP 27 2017	10:35 AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



SanAir Technologies Laboratory, Inc

1551 Oakbridge Dr, Suite B Powhatan, VA 23139
 804.897.1177 Toll Free 888.895.1177 Fax: 804.897.0070
www.sanair.com

SanAir ID Number
 17038531
 Final Report

email:iaq@sanair.com

Name: Occu-Tec
Address: 100 NW Business Park lane
 Riverside, MO 64150

Project Number: 917138
P.O. Number:
Project Name: IAQ Sampling Building 103D

Collected Date: 9/5/2017 - 9/22/2017
Received Date: 9/27/2017 10:55 AM
Report Date: 10/4/2017 9:35 AM
Analyst : C. Peterson

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17038531-01	103D-MetA-01	Silver (Ag)	1st Floor Column P 39	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038531-02	103D-MetA-02	Silver (Ag)	1st Floor Column N 36	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038531-03	103D-MetA-03	Silver (Ag)	1st Floor Column L 35 1/2	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/28/2017

Reviewed: (b) (6)
 Date: 10/4/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17038531-04	103D-MetA-04	Silver (Ag)	1st Floor Column N 31	<8.45	2.5
		Arsenic (As)		<8.45	2.5
		Barium (Ba)		<8.45	2.5
		Cadmium (Cd)		<8.45	2.5
		Chromium (Cr)		<8.45	2.5
		Lead (Pb)		<8.45	2.5
		Selenium (Se)		<8.45	2.5
17038531-05	103D-MetA-05	Silver (Ag)	2nd Floor Column N 31	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038531-06	103D-MetA-06	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5
17038531-07	103D-MetA-07	Silver (Ag)	2nd Floor Column 38	<7.97	2.5
		Arsenic (As)		<7.97	2.5
		Barium (Ba)		<7.97	2.5
		Cadmium (Cd)		<7.97	2.5
		Chromium (Cr)		<7.97	2.5
		Lead (Pb)		<7.97	2.5
		Selenium (Se)		<7.97	2.5
17038531-08	103D-MetA-08	Silver (Ag)	Roof North End	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/28/2017

Reviewed: (b) (6)
 Date: 10/4/2017

Disclaimer

Final reports cannot be reproduced, except in full, without written authorization from SanAir Technologies Laboratory, Inc. SanAir is not responsible for sample collection or interpretation made by others. This report does not constitute endorsement by AIHA/NVLAP and/or any other U.S. governmental Agencies; and may not be certified by every local, state or federal regulatory agencies. SanAir Technologies Laboratory, Inc only assures the precision and accuracy of the data it generates and assumes no responsibility for errors or biasing that occur during collection prior to SanAir's receipt of the the sample. SanAir's Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using wipe materials meeting ASTM-E1792. The MDL and RL may not be relevant or applicable for other forms of wipe materials. All quality control results are acceptable unless otherwise noted. All quality control results are acceptable unless otherwise noted. Results are not corrected for blanks

Lead Exposure Limits

Air

1.5 µg/m3	EPA National Ambient Air Quality Standard (Quality Time – Weight Average)
30 µg/m3	OSHA Action Level (8-hour time weighted average)
50 µg/m3	OSHA Permissible Exposure Limit (General Industry)
50 µg/m3	OSHA Permissible Exposure Limit

Dust

Non-Grant Funded Projects (Standard Clearance Applies):

40ug/ft2	HUD Clearance Level for Floors
250ug/ft2	HUD Clearance Level for Window Sills
400ug/ft2	HUD Clearance Level for Window

Grant Funded Clearance (OLHCHH; LBPHC; LHRD Grantees):

10ug/ft2	HUD Clearance Level for Floors
100ug/ft2	HUD Clearance Level for Window Sills and Window Troughs
40ug/ft2	HUD Clearance Level for Porch Floors

Water

15 ppb (µg/liter)	EPA Maximum Containment Level
-------------------	-------------------------------

Paint

0.5% by weight	HUD definition of lead based paint
1.0 mg/cm2	
5000 ppm	

Soil

400 ppm	HUD-Play areas and high-contact areas for children
---------	--

TCLP EPA Limits

5.0 mg/L Silver (Ag)	100 mg/L Barium (Ba)	5.0 mg/L Chromium (Cr)	5.0 mg/L Lead (Pb)
5.0 mg/L Arsenic (As)	1.0 mg/L Cadmium (Cd)	0.2 mg/L Mercury (Hg)	1.0 mg/L Selenium (Se)

Goodfellow Federal Center Airborne Metals Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 103E			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
103E-MetA-01	1st Floor Column P 21	< 6.65	µg/m ³
103E-MetA-02	1st Floor Column N 21	< 6.65	µg/m ³
103E-MetA-03	2nd Floor Column P 20	< 6.65	µg/m ³
103E-MetA-04	1st Floor Column L 28	< 6.65	µg/m ³
103E-MetA-05	1st Floor Column M 28	< 6.65	µg/m ³
103E-MetA-06	2nd Floor Column P 27	< 7.97	µg/m ³
103E-MetA-07	2nd Floor Column K 26	< 6.65	µg/m ³
103E-MetA-08	2nd Floor Column M 28.5	< 5.18	µg/m ³
103E-MetA-09	Roof Exterior	< 6.65	µg/m ³
103E-MetA-10	Blank	< 2.5	µg/m ³

< = below limit of detection

µg/m³ = micrograms per cubic meter

SanAir Technologies Laboratory

Analysis Report

prepared for

Occu-Tec

Report Date: 9/20/2017
Project Name: IAQ Sampling
Building 103E
Project #: 917004.002
SanAir ID#: 17036201



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

Occu-Tec
100 NW Business Park Lane
Riverside, MO 64150

September 20, 2017

SanAir ID # 17036201
Project Name: IAQ Sampling Building 103E
Project Number: 917004.002

Dear Justin Arnold,

We at SanAir would like to thank you for the work you recently submitted. The 10 sample(s) were received on Wednesday, September 13, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 103E-MetA-01, 103E-MetA-02, 103E-MetA-03, 103E-MetA-04, 103E-MetA-05, 103E-MetA-06, 103E-MetA-07, 103E-MetA-08, 103E-MetA-09, 103E-MetA-10.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

(b) (6)

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:

10 sample(s) in Good condition



1551 Oakbridge Dr STE B
 Powhatan, VA 23139
 804.897.1177 / 888.895.1177
 Fax 804.897.0070
 sanair.com

**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 17036201

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-810-3276
Address: 100 NW Business Park Lane	Project Name: IAQ Sampling Building 103E	Phone #: 816-994-3428
City, St., Zip: Riverside, MO 64150	Date Collected: 9-8-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in:	Email:

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead	ICP-total concentration of metals (please list metals): Do Not Include Mercury
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>	
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead <input type="checkbox"/>	
<input type="checkbox"/> Other:	TCLP for RCRA 8 Metals	

Turn Around Time	Same Day	1 Day	2 days	3 Days
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
103E-MetA-01	9-8-2017	Column P 21 1st Floor	2.35	7:43	10:23	376 L
103E-MetA-02	9-8-2017	Column N 21 - 1st Floor	2.35	7:44	10:24	376 L
103E-MetA-03	9-8-2017	Column P 20 - 2nd Floor	2.35	7:46	10:26	376 L
103E-MetA-04	9-8-2017	Column L 28 - 1st Floor	2.35	7:57	10:37	376 L
103E-MetA-05	9-8-2017	Column M 28 - 1st Floor	2.35	7:59	10:39	376 L
103E-MetA-06	9-8-2017	Column P 27 - 2nd Floor	1.96	8:02	10:42	313.6 L
103E-MetA-07	9-8-2017	Column K 26 - 2nd Floor	2.35	8:04	10:44	376 L
103E-MetA-08	9-8-2017	Column M 28.5 - 2nd Floor	2.35	8:06	10:46	376 L
103E-MetA-09	9-8-2017	Roof	2.35	8:09	10:49	376 L
103E-MetA-10	9-8-2017	Blank	NA	NA	NA	NA

Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
(b) (6)	9-12-17		(b) (6)	9/13/17	10:30

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



SanAir Technologies Laboratory, Inc

1551 Oakbridge Dr, Suite B Powhatan, VA 23139
 804.897.1177 Toll Free 888.895.1177 Fax: 804.897.0070
www.sanair.com

SanAir ID Number
 17036201
 Final Report

email:iaq@sanair.com

Name: Occu-Tec
Address: 100 NW Business Park lane
 Riverside, MO 64150

Project Number: 917004.002
P.O. Number:
Project Name: IAQ Sampling Building 103E

Collected Date: 9/8/2017
Received Date: 9/13/2017 10:30 AM
Report Date: 9/20/2017 12:50 PM
Analyst : C. Peterson

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036201-01	103E-MetA-01	Silver (Ag)	Column P 21 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036201-02	103E-MetA-02	Silver (Ag)	Column P 20 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036201-03	103E-MetA-03	Silver (Ag)	Column L 28 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/15/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036201-04	103E-MetA-04	Silver (Ag)	Column M - 51 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036201-05	103E-MetA-05	Silver (Ag)	Column M 28 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036201-06	103E-MetA-06	Silver (Ag)	Column P 27 - 2nd Floor	<7.97	2.5
		Arsenic (As)		<7.97	2.5
		Barium (Ba)		<7.97	2.5
		Cadmium (Cd)		<7.97	2.5
		Chromium (Cr)		<7.97	2.5
		Lead (Pb)		<7.97	2.5
		Selenium (Se)		<7.97	2.5
17036201-07	103E-MetA-07	Silver (Ag)	Column K 26 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036201-08	103E-MetA-08	Silver (Ag)	Column M 28.5 - 2nd Floor	<5.18	2.5
		Arsenic (As)		<5.18	2.5
		Barium (Ba)		<5.18	2.5
		Cadmium (Cd)		<5.18	2.5
		Chromium (Cr)		<5.18	2.5
		Lead (Pb)		<5.18	2.5
		Selenium (Se)		<5.18	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/15/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036201-09	103E-MetA-09	Silver (Ag)	Roof	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036201-10	103E-MetA-10	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/15/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Disclaimer

- Results relate only to the items tested
- Results are not corrected for blanks
- All quality control results are acceptable unless otherwise noted
- SanAir Technologies Laboratory, Inc is not responsible for sample collection or interpretation made by others
- This report does not constitute endorsement by AIHA/NVLAP and/or any other U.S. governmental Agencies; and may not be certified by every local, state or federal regulatory
- SanAir Technologies Laboratory, Inc only assures the precision and accuracy of the data it generates and assumes no responsibility for errors or biasing that occur during collection prior
- SanAir’s Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using wipe materials meeting ASTM-E1792. The MDL and RL may not be relevant or applicable for

Lead Exposure Limits

- Air
- 1.5 µg/m³ EPA National Ambient Air Quality Standard (Quality Time – Weight Average)
- 30 µg/m³ OSHA Action Level (8-hour time weighted average)
- 50 µg/m³ OSHA Permissible Exposure Limit (General Industry)
- 50 µg/m³ OSHA Permissible Exposure Limit (Construction)

Dust

- 10 µg/ft² HUD Clearance Level for Floors
- 100 µg/ft² HUD Clearance Level for Interior Window Sills
- 100 µg/ft² HUD Clearance Level for Window Troughs
- 40 µg/ft² HUD Clearance Level for Porch Floors

Water

- 15 ppb (µg/liter) EPA Maximum Containment Level

Paint

- 0.5% by weight HUD definition of lead based paint
- 1.0 mg/cm²
- 5000 ppm

Soil

- 400 ppm HUD-Play areas and high-contact areas for children

TCLP EPA Limits:

- Silver (Ag): 5.0 mg/L
- Arsenic (As): 5.0 mg/L
- Barium (Ba): 100 mg/L
- Cadmium (Cd): 1.0 mg/L
- Chromium (Cr): 5.0 mg/L
- Mercury (Hg): 0.2 mg/L
- Lead (Pb): 5.0 mg/L
- Selenium (Se): 1.0 mg/L

Goodfellow Federal Center Airborne Metals Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 103F			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
103F-MetA-01	Column E 8	< 6.65	$\mu\text{g}/\text{m}^3$
103F-MetA-02	Column B 8	< 6.65	$\mu\text{g}/\text{m}^3$
103F-MetA-03	Column B 11	< 6.65	$\mu\text{g}/\text{m}^3$
103F-MetA-04	Column F 5	< 6.65	$\mu\text{g}/\text{m}^3$
103F-MetA-05	Roof Exterior	< 6.65	$\mu\text{g}/\text{m}^3$
103F-MetA-06	Column F 12	< 7.05	$\mu\text{g}/\text{m}^4$
103F-MetA-07	Blank	< 2.5	$\mu\text{g}/\text{m}^5$

< = below limit of detection

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

SanAir Technologies Laboratory

Analysis Report

prepared for

Occu-Tec

Report Date: 9/20/2017
Project Name: IAQ Sampling
Building 103F
Project #: 917004.002
SanAir ID#: 17036187



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

Occu-Tec
100 NW Business Park Lane
Riverside, MO 64150

September 20, 2017

SanAir ID # 17036187
Project Name: IAQ Sampling Building 103F
Project Number: 917004.002

Dear Justin Arnold,

We at SanAir would like to thank you for the work you recently submitted. The 7 sample(s) were received on Wednesday, September 13, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 103F-MetA-01, 103F-MetA-02, 103F-MetA-03, 103F-MetA-04, 103F-MetA-05, 103F-MetA-06, 103F-MetA-07.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

(b) (6)

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
7 sample(s) in Good condition



SanAir Technologies Laboratory, Inc

1551 Oakbridge Dr, Suite B Powhatan, VA 23139
 804.897.1177 Toll Free 888.895.1177 Fax: 804.897.0070
www.sanair.com

SanAir ID Number
 17036187
 Final Report

email:iaq@sanair.com

Name: Occu-Tec
Address: 100 NW Business Park lane
 Riverside, MO 64150

Project Number: 917004.002
P.O. Number:
Project Name: IAQ Sampling Building 103F

Collected Date: 9/8/2017
Received Date: 9/13/2017 10:30 AM
Report Date: 9/20/2017 12:15 PM
Analyst : C. Peterson

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036187-01	103F-MetA-01	Silver (Ag)	Column E 8	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036187-02	103F-MetA-02	Silver (Ag)	Column B 8	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036187-03	103F-MetA-03	Silver (Ag)	Column B 11	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/15/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036187-04	103F-MetA-04	Silver (Ag)	Column F 5	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036187-05	103F-MetA-05	Silver (Ag)	Roof	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036187-06	103F-MetA-06	Silver (Ag)	Column F 12	<7.05	2.5
		Arsenic (As)		<7.05	2.5
		Barium (Ba)		<7.05	2.5
		Cadmium (Cd)		<7.05	2.5
		Chromium (Cr)		<7.05	2.5
		Lead (Pb)		<7.05	2.5
		Selenium (Se)		<7.05	2.5
17036187-07	103F-MetA-07	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/15/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Disclaimer

- Results relate only to the items tested
- Results are not corrected for blanks
- All quality control results are acceptable unless otherwise noted
- SanAir Technologies Laboratory, Inc is not responsible for sample collection or interpretation made
- This report does not constitute endorsement by AIHA/NVLAP and/or any other U.S.
- SanAir Technologies Laboratory, Inc only assures the precision and accuracy of the data it
- SanAir's Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using

Lead Exposure Limits

Air

1.5 µg/m³ EPA National Ambient Air Quality Standard (Quality Time – Weight Average)

30 µg/m³ OSHA Action Level (8-hour time weighted average)

50 µg/m³ OSHA Permissible Exposure Limit (General Industry)

50 µg/m³ OSHA Permissible Exposure Limit (Construction)

Dust

10 µg/ft² HUD Clearance Level for Floors

100 µg/ft² HUD Clearance Level for Interior Window Sills

100 µg/ft² HUD Clearance Level for Window Troughs

40 µg/ft² HUD Clearance Level for Porch Floors

Water

15 ppb (µg/liter) EPA Maximum Containment Level

Paint

0.5% by weight HUD definition of lead based paint

1.0 mg/cm²

5000 ppm

Soil

400 ppm HUD-Play areas and high-contact areas for children

TCLP EPA Limits:

Silver (Ag): 5.0 mg/L

Arsenic (As): 5.0 mg/L

Barium (Ba): 100 mg/L

Cadmium (Cd): 1.0 mg/L

Chromium (Cr): 5.0 mg/L

Mercury (Hg): 0.2 mg/L

Lead (Pb): 5.0 mg/L

Selenium (Se): 1.0 mg/L

Goodfellow Federal Center Airborne Metals Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 103			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
103-MetA-01	1st Floor Column F 1	< 8.10	µg/m ³
103-MetA-02	1st Floor Column H 2	< 6.65	µg/m ³
103-MetA-03	1st Floor Column J 4	< 6.65	µg/m ³
103-MetA-04	1st Floor Column F 5	< 6.65	µg/m ³
103-MetA-05	1st Floor Column D 3	< 6.65	µg/m ³
103-MetA-06	1st Floor Column C 5	< 6.65	µg/m ³
103-MetA-07	1st Floor Column B 6	< 6.65	µg/m ³
103-MetA-08	1st Floor Column B 12	< 6.65	µg/m ³
103-MetA-09	2nd Floor Column F 2	< 6.65	µg/m ³
103-MetA-10	2nd Floor Column E 1	< 6.65	µg/m ³
103-MetA-11	2nd Floor Column B 2	< 6.65	µg/m ³
103-MetA-12	2nd Floor Column D 6	< 6.65	µg/m ³
103-MetA-13	2nd Floor Column G 7	< 6.65	µg/m ³
103-MetA-14	2nd Floor Column G 1/2 6	< 6.65	µg/m ³
103-MetA-15	2nd Floor Column H 13	< 6.65	µg/m ³
103-MetA-16	2nd Floor Column E 20	< 6.65	µg/m ³
103-MetA-17	2nd Floor Column B 15	< 6.65	µg/m ³
103-MetA-18	2nd Floor Column B 27	< 6.65	µg/m ³
103-MetA-19	2nd Floor Column E 31	< 6.65	µg/m ³
103-MetA-20	2nd Floor Column H 33	< 6.65	µg/m ³
103-MetA-21	2nd Floor Column H 37	< 6.65	µg/m ³
103-MetA-22	2nd Floor Column B 39	< 6.65	µg/m ³
103-MetA-23	2nd Floor Column B 34	< 6.65	µg/m ³
103-MetA-24	1st Floor Column B 21	< 6.65	µg/m ³
103-MetA-25	1st Floor Column A 28	< 6.65	µg/m ³
103-MetA-26	1st Floor Column E 32	< 6.65	µg/m ³
103-MetA-27	1st Floor Column E 31	< 6.65	µg/m ³
103-MetA-28	1st Floor Column H 33	< 6.65	µg/m ³
103-MetA-29	2nd Floor Column J 36	< 6.65	µg/m ³
103-MetA-30	2nd Floor Column D 39	< 6.65	µg/m ³
103-MetA-31	South End of Roof	< 6.65	µg/m ³
103-MetA-32	North End of Roof	< 6.65	µg/m ³
103-MetA-33	Blank	< 2.5	µg/m ³
103-MetA-34	Blank	< 2.5	µg/m ³
103-MetA-35	Blank	< 2.5	µg/m ³

< = below limit of detection

µg/m³ = micrograms per cubic meter

SanAir Technologies Laboratory

Analysis Report

prepared for

Occu-Tec

Report Date: 10/4/2017
Project Name: IAQ Sampling
Building 103
Project #: 917004.002
SanAir ID#: 17038526



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

Occu-Tec
100 NW Business Park Lane
Riverside, MO 64150

October 4, 2017

SanAir ID # 17038526
Project Name: IAQ Sampling Buiding 103
Project Number: 917004.002

Dear Justin Arnold,

We at SanAir would like to thank you for the work you recently submitted. The 35 sample(s) were received on Wednesday, September 27, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 103-MetA-01, 103-MetA-02, 103-MetA-03, 103-MetA-04, 103-MetA-05, 103-MetA-06, 103-MetA-07, 103-MetA-08, 103-MetA-09, 103-MetA-10, 103-MetA-11, 103-MetA-12, 103-MetA-13, 103-MetA-14, 103-MetA-15, 103-MetA-16, 103-MetA-17, 103-MetA-18, 103-MetA-19, 103-MetA-20, 103-MetA-21, 103-MetA-22, 103-MetA-23, 103-MetA-24, 103-MetA-25, 103-MetA-26, 103-MetA-27, 103-MetA-28, 103-MetA-29, 103-MetA-30, 103-MetA-31, 103-MetA-32, 103-MetA-33, 103-MetA-34, 103-MetA-35.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

(b) (6)

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
35 sample(s) in Good condition



1551 Oakbridge Dr STE B
 Powhatan, VA 23139
 804.897.1177 / 888.895.1177
 Fax 804.897.0070
 sanair.com

**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 1703 8526

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-810-3276
Address: 100 NW Business Park Lane	Project Name: IAQ Sampling Building 103	Phone #: 816-994-3428
City, St., Zip: Riverside, MO 64150	Date Collected: 09-19-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in: Missouri	Email:

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead	ICP-total concentration of metals (please list metals): Do Not Include Mercury
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>	
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead <input type="checkbox"/>	
Other:	TCLP for RCRA 8 Metals	

Turn Around Time	Same Day	1 Day	2 days	3 Days
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
103-MetA-01	09-19-2017	1st Floor Column F 1	1.96 L	8:50	11:30	308.8 L
103-MetA-02	09-19-2017	1st Floor Column H 2	2.35 L	8:53	11:33	376 L
103-MetA-03	09-19-2017	1st Floor Column J 4	2.35 L	8:58	11:38	376 L
103-MetA-04	09-19-2017	1st Floor Column F 5	2.35 L	9:03	11:43	376 L
103-MetA-05	09-19-2017	1st Floor Column D 3	2.35 L	9:06	11:46	376 L
103-MetA-06	09-19-2017	1st Floor Column C 5	2.35 L	9:10	11:50	376 L
103-MetA-07	09-19-2017	1st Floor Column B 6	2.35 L	9:13	11:53	376 L
103-MetA-08	09-19-2017	1st Floor Column B 12	2.35 L	9:16	11:56	376 L
103-MetA-09	09-19-2017	2nd Floor Column F 2	2.35 L	9:25	12:05	376 L
103-MetA-10	09-19-2017	2nd Floor Column E 1	2.35 L	9:27	12:07	376L
103-MetA-11	09-19-2017	2nd Floor Column B 2	2.35 L	9:30	12:10	376 L
103-MetA-12	09-19-2017	2nd Floor Column D 6	2.35 L	9:35	12:15	376 L
103-MetA-13	09-19-2017	2nd Floor Column G 7	2.35 L	9:38	12:18	376 L
103-MetA-14	09-19-2017	2nd Floor Column G 1/2 6	2.35 L	9:41	12:21	376 L

Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
(b) (6)	9-26-17	2:00pm	(b) (6)	SEP 27 2017	10:55AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



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 Powhatan, VA 23139
 804.897.1177 / 888.895.1177
 Fax 804.897.0070
 sanair.com

**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 17038526

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-810-3276
Address: 100 NW Business Park Lane	Project Name: IAQ Sampling Building 103	Phone #: 816-994-3428
City, St., Zip: Riverside, MO 64150	Date Collected: 09-19-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in: Missouri	Email:

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead	ICP-total concentration of metals (please list metals): Do Not Include Mercury
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>	
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead <input type="checkbox"/>	
Other:	TCLP for RCRA 8 Metals	

Turn Around Time	Same Day <input type="checkbox"/>	1 Day <input type="checkbox"/>	2 days <input type="checkbox"/>	3 Days <input type="checkbox"/>
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
103-MetA-15	09-19-2017	2nd Floor Column H 13	2.35 L	9:45	12:25	376 L
103-MetA-16	09-19-2017	2nd Floor Column E 20	2.35 L	9:50	12:30	376 L
103-MetA-17	09-19-2017	2nd Floor Column B 15	2.35 L	9:53	12:33	376 L
103-MetA-18	09-19-2017	2nd Floor Column B 27	2.35 L	9:56	12:36	376 L
103-MetA-19	09-19-2017	2nd Floor Column E 31	2.35 L	10:01	12:41	376 L
103-MetA-20	09-19-2017	2nd Floor Column H 33	2.35 L	10:05	12:45	376 L
103-MetA-21	09-19-2017	2nd Floor Column H 37	2.35 L	10:08	12:48	376 L
103-MetA-22	09-19-2017	2nd Floor Column B 39	2.35 L	10:11	12:51	376 L
103-MetA-23	09-19-2017	2nd Floor Column B 34	2.35 L	10:15	12:55	376 L
103-MetA-24	09-19-2017	1st Floor Column B 21	2.35 L	13:11	15:41	376 L
103-MetA-25	09-19-2017	1st Floor Column A 28	2.35 L	13:15	15:45	376 L
103-MetA-26	09-19-2017	1st Floor Column E 32	2.35 L	13:20	15:50	376 L
103-MetA-27	09-19-2017	1st Floor Column E 31	2.35 L	13:23	15:53	376 L
103-MetA-28	09-19-2017	1st Floor Column H 33	2.35 L	13:25	15:55	376 L

Special Instructions

Delivered by	Date	Time	Received by	Date	Time
(b) (6)	9-26-17	2:00pm	(b) (6)	SEP 27 2017	10:55AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



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**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 17038526

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-810-3276
Address: 100 NW Business Park Lane	Project Name: IAQ Sampling Building 103	Phone #: 816-994-3428
City, St., Zip: Riverside, MO 64150	Date Collected: 09-19-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in: Missouri	Email:

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead	ICP-total concentration of metals (please list metals): Do Not Include Mercury
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>	
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead	
Other:	TCLP for RCRA 8 Metals	

Turn Around Time	Same Day	1 Day	2 days	3 Days
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
103-MetA-29	09-19-2017	2nd Floor Column J 36	2.35 L	13:28	15:58	376 L
103-MetA-30	09-19-2017	2nd Floor Column D 39	2.35 L	13:30	16:00	376 L
103-MetA-31	09-19-2017	South End of Roof	2.35 L	13:37	16:07	376 L
103-MetA-32	09-19-2017	North End of Roof	2.35 L	13:38	16:08	376 L
103-MetA-33	09-19-2017	Blank				
103-MetA-34	09-19-2017	Blank				
103-MetA-35	09-19-2017	Blank				

Special Instructions	
----------------------	--

Relinquished by	Date	Time	Received by	Date	Time
(b) (6)	9-26-17	2:00pm	(b) (6)	SEP 27 2017	10:55AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



SanAir Technologies Laboratory, Inc

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 804.897.1177 Toll Free 888.895.1177 Fax: 804.897.0070
www.sanair.com

email:iaq@sanair.com

SanAir ID Number
 17038526
 Final Report

Name: Occu-Tec
Address: 100 NW Business Park lane
 Riverside, MO 64150

Project Number: 917004.002
P.O. Number:
Project Name: IAQ Sampling Building 103

Collected Date: 9/19/2017
Received Date: 9/27/2017 10:55 AM
Report Date: 10/4/2017 9:00 AM
Analyst : C. Peterson

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17038526-01	103-MetA-01	Silver (Ag)	1st Floor Column F 1	<8.10	2.5
		Arsenic (As)		<8.10	2.5
		Barium (Ba)		<8.10	2.5
		Cadmium (Cd)		<8.10	2.5
		Chromium (Cr)		<8.10	2.5
		Lead (Pb)		<8.10	2.5
		Selenium (Se)		<8.10	2.5
17038526-02	103-MetA-02	Silver (Ag)	1st Floor Column H 2	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-03	103-MetA-03	Silver (Ag)	1st Floor Column J 4	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/28/2017

Reviewed: (b) (6)
 Date: 10/4/2017

Analytes Requested: RCRA 7 Metals
 Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17038526-04	103-MetA-04	Silver (Ag)	1st Floor Column F 5	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-05	103-MetA-05	Silver (Ag)	1st Floor Column D 3	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-06	103-MetA-06	Silver (Ag)	1st Floor Column C 5	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-07	103-MetA-07	Silver (Ag)	1st Floor Column B 6	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-08	103-MetA-08	Silver (Ag)	1st Floor Column B 12	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/28/2017

Reviewed: (b) (6)
 Date: 10/4/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17038526-09	103-MetA-09	Silver (Ag)	2nd Floor Column F 2	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-10	103-MetA-10	Silver (Ag)	2nd Floor Column E 1	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-11	103-MetA-11	Silver (Ag)	2nd Floor Column B 2	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-12	103-MetA-12	Silver (Ag)	2nd Floor Column D 6	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-13	103-MetA-13	Silver (Ag)	2nd Floor Column G 7	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/28/2017

Reviewed: (b) (6)
 Date: 10/4/2017

Analytes Requested: RCRA 7 Metals
 Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17038526-14	103-MetA-14	Silver (Ag)	2nd Floor Column G 1/2 6	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-15	103-MetA-15	Silver (Ag)	2nd Floor Column H 13	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-16	103-MetA-16	Silver (Ag)	2nd Floor Column E 20	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-17	103-MetA-17	Silver (Ag)	2nd Floor Column B 15	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-18	103-MetA-18	Silver (Ag)	2nd Floor Column B 27	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/28/2017

Reviewed: (b) (6)
 Date: 10/4/2017

Analytes Requested: RCRA 7 Metals

Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17038526-19	103-MetA-19	Silver (Ag)	2nd Floor Column E 31	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-20	103-MetA-20	Silver (Ag)	2nd Floor Column H 33	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-21	103-MetA-21	Silver (Ag)	2nd Floor Column H 37	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-22	103-MetA-22	Silver (Ag)	2nd Floor Column B 39	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-23	103-MetA-23	Silver (Ag)	2nd Floor Column B 34	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)

Date: 9/28/2017

Reviewed: (b) (6)

Date: 10/4/2017

Analytes Requested: RCRA 7 Metals

Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17038526-24	103-MetA-24	Silver (Ag)	1st Floor Column B 21	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-25	103-MetA-25	Silver (Ag)	1st Floor Column A 28	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-26	103-MetA-26	Silver (Ag)	1st Floor Column E 32	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-27	103-MetA-27	Silver (Ag)	1st Floor Column E 31	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-28	103-MetA-28	Silver (Ag)	1st Floor Column H 33	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

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Signature: (b) (6)
Date: 9/28/2017

Reviewed: (b) (6)
Date: 10/4/2017

Analytes Requested: RCRA 7 Metals

Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17038526-29	103-MetA-29	Silver (Ag)	2nd Floor Column J 36	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-30	103-MetA-30	Silver (Ag)	2nd Floor Column D 39	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-31	103-MetA-31	Silver (Ag)	South End Of Roof	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-32	103-MetA-32	Silver (Ag)	North End Of Roof	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038526-33	103-MetA-33	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

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Signature: (b) (6)
Date: 9/28/2017

Reviewed: (b) (6)
Date: 10/4/2017

Analytes Requested: RCRA 7 Metals

Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17038526-34	103-MetA-34	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5
17038526-35	103-MetA-35	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

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Signature: (b) (6)
Date: 9/28/2017

Reviewed: (b) (6)
Date: 10/4/2017

Disclaimer

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Lead Exposure Limits

- Air
- 1.5 µg/m³ EPA National Ambient Air Quality Standard (Quality Time – Weight Average)
- 30 µg/m³ OSHA Action Level (8-hour time weighted average)
- 50 µg/m³ OSHA Permissible Exposure Limit (General Industry)
- 50 µg/m³ OSHA Permissible Exposure Limit

Dust

Non-Grant Funded Projects (Standard Clearance Applies):

- 40ug/ft2 HUD Clearance Level for Floors
- 250ug/ft2 HUD Clearance Level for Window Sills
- 400ug/ft2 HUD Clearance Level for Window

Grant Funded Clearance (OLHCHH; LBPHC; LHRD Grantees):

- 10ug/ft2 HUD Clearance Level for Floors
- 100ug/ft2 HUD Clearance Level for Window Sills and Window Troughs
- 40ug/ft2 HUD Clearance Level for Porch Floors

Water

15 ppb (µg/liter) EPA Maximum Containment Level

Paint

- 0.5% by weight HUD definition of lead based paint
- 1.0 mg/cm²
- 5000 ppm

Soil

400 ppm HUD-Play areas and high-contact areas for children

TCLP EPA Limits

5.0 mg/L Silver (Ag)	100 mg/L Barium (Ba)	5.0 mg/L Chromium (Cr)	5.0 mg/L Lead (Pb)
5.0 mg/L Arsenic (As)	1.0 mg/L Cadmium (Cd)	0.2 mg/L Mercury (Hg)	1.0 mg/L Selenium (Se)

Goodfellow Federal Center Airborne Metals Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 104E			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
104E-MetA-01	1st Floor Column O 45	< 6.65	$\mu\text{g}/\text{m}^3$
104E-MetA-02	1st Floor Column O 47	< 6.65	$\mu\text{g}/\text{m}^3$
104E-MetA-03	1st Floor Column L 50 1/2	< 6.65	$\mu\text{g}/\text{m}^3$
104E-MetA-04	1st Floor Column M 51	< 6.65	$\mu\text{g}/\text{m}^3$
104E-MetA-05	2nd Floor Column M 43	< 6.65	$\mu\text{g}/\text{m}^3$
104E-MetA-06	2nd Floor Column L 41	< 6.65	$\mu\text{g}/\text{m}^3$
104E-MetA-07	2nd Floor Column L 49	< 6.65	$\mu\text{g}/\text{m}^3$
104E-MetA-08	2nd Floor Column P 51	< 5.18	$\mu\text{g}/\text{m}^3$
104E-MetA-09	Roof of Exterior	< 6.65	$\mu\text{g}/\text{m}^3$
104E-MetA-10	Blank	< 2.25	$\mu\text{g}/\text{m}^3$

< = below limit of detection

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

SanAir Technologies Laboratory

Analysis Report

prepared for

Occu-Tec

Report Date: 9/20/2017
Project Name: IAQ Sampling
Building 104E
Project #: 917004.002
SanAir ID#: 17036196



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

Occu-Tec
100 NW Business Park Lane
Riverside, MO 64150

September 20, 2017

SanAir ID # 17036196
Project Name: IAQ Sampling Building 104E
Project Number: 917004.002

Dear Justin Arnold,

We at SanAir would like to thank you for the work you recently submitted. The 10 sample(s) were received on Wednesday, September 13, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 104E-MetA-01, 104E-MetA-02, 104E-MetA-03, 104E-MetA-04, 104E-MetA-05, 104E-MetA-06, 104E-MetA-07, 104E-MetA-08, 104E-MetA-09, 104E-MetA-10.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

(b) (6)

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:

10 sample(s) in Good condition



1551 Oakbridge Dr STE B
 Powhatan, VA 23139
 804.897.1177 / 888.895.1177
 Fax 804.897.0070
 sanair.com

**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 17036196

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-810-3276
Address: 100 NW Business Park Lane	Project Name: IAQ Sampling Building 104E	Phone #: 816-994-3428
City, St., Zip: Riverside, MO 64150	Date Collected: 9-5-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in:	Email:

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead	ICP-total concentration of metals (please list metals): Do Not Include Mercury
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>	
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead	
<input type="checkbox"/> Other:	TCLP for RCRA 8 Metals	

Turn Around Time	Same Day	1 Day	2 days	3 Days
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
104E-MetA-01	9-5-2017	Column O - 45 1st Floor	2.35	11:37	2:17	376 L
104E-MetA-02	9-5-2017	Column O - 47 - 1st Floor	2.35	11:40	2:20	376 L
104E-MetA-03	9-5-2017	Column L - 50.5 1st Floor	2.35	11:43	2:23	376 L
104E-MetA-04	9-5-2017	Column M - 51 - 1st Floor	2.35	11:46	2:26	376 L
104E-MetA-05	9-5-2017	Column M 43 - 2nd Floor	2.35	11:50	2:30	376 L
104E-MetA-06	9-5-2017	Column L 41 - 2nd Floor	2.35	11:54	2:34	376 L
104E-MetA-07	9-5-2017	Column L 49 - 2nd Floor	2.35	11:57	2:37	376 L
104E-MetA-08	9-5-2017	Column P 51 - 2nd Floor	3.02	12:01	2:41	483 L
104E-MetA-09	9-5-2017	Roof	2.35	12:06	2:46	376 L
104E-MetA-10	9-5-2017	Blank	NA	NA	NA	NA

Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
(b) (6)	9-11-17		(b) (6)	9/13/17	10:30

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



SanAir Technologies Laboratory, Inc

1551 Oakbridge Dr, Suite B Powhatan, VA 23139
 804.897.1177 Toll Free 888.895.1177 Fax: 804.897.0070
www.sanair.com

SanAir ID Number
 17036196
 Final Report

email:iaq@sanair.com

Name: Occu-Tec
Address: 100 NW Business Park lane
 Riverside, MO 64150

Project Number: 917004.002
P.O. Number:
Project Name: IAQ Sampling Building 104E

Collected Date: 9/5/2017
Received Date: 9/13/2017 10:30 AM
Report Date: 9/20/2017 12:30 PM
Analyst : C. Peterson

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036196-01	104E-MetA-01	Silver (Ag)	Column O - 45 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036196-02	104E-MetA-02	Silver (Ag)	Column O - 47 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036196-03	104E-MetA-03	Silver (Ag)	Column L - 50.5 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/15/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Analytes Requested: RCRA 7 Metals
 Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036196-04	104E-MetA-04	Silver (Ag)	Column M - 51 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036196-05	104E-MetA-05	Silver (Ag)	Column M 43 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036196-06	104E-MetA-06	Silver (Ag)	Column M 41 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036196-07	104E-MetA-07	Silver (Ag)	Column L 49 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036196-08	104E-MetA-08	Silver (Ag)	Column P 51 - 2nd Floor	<5.18	2.5
		Arsenic (As)		<5.18	2.5
		Barium (Ba)		<5.18	2.5
		Cadmium (Cd)		<5.18	2.5
		Chromium (Cr)		<5.18	2.5
		Lead (Pb)		<5.18	2.5
		Selenium (Se)		<5.18	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

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Signature: (b) (6)
 Date: 9/15/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036196-09	104E-MetA-09	Silver (Ag)	Roof	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036196-10	104E-MetA-10	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

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Signature: (b) (6)
 Date: 9/15/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Disclaimer

- Results relate only to the items tested
- Results are not corrected for blanks
- All quality control results are acceptable unless otherwise noted
- SanAir Technologies Laboratory, Inc is not responsible for sample collection or interpretation made by others
- This report does not constitute endorsement by AIHA/NVLAP and/or any other U.S. governmental Agencies; and may not be certified by every local, state or federal regulatory
- SanAir Technologies Laboratory, Inc only assures the precision and accuracy of the data it generates and assumes no responsibility for errors or biasing that occur during collection prior
- SanAir's Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using wipe materials meeting ASTM-E1792. The MDL and RL may not be relevant or applicable for

Lead Exposure Limits

- Air
- 1.5 µg/m³ EPA National Ambient Air Quality Standard (Quality Time – Weight Average)
- 30 µg/m³ OSHA Action Level (8-hour time weighted average)
- 50 µg/m³ OSHA Permissible Exposure Limit (General Industry)
- 50 µg/m³ OSHA Permissible Exposure Limit (Construction)

Dust

- 10 µg/ft² HUD Clearance Level for Floors
- 100 µg/ft² HUD Clearance Level for Interior Window Sills
- 100 µg/ft² HUD Clearance Level for Window Troughs
- 40 µg/ft² HUD Clearance Level for Porch Floors

Water

- 15 ppb (µg/liter) EPA Maximum Containment Level

Paint

- 0.5% by weight HUD definition of lead based paint
- 1.0 mg/cm²
- 5000 ppm

Soil

- 400 ppm HUD-Play areas and high-contact areas for children

TCLP EPA Limits:

- Silver (Ag): 5.0 mg/L
- Arsenic (As): 5.0 mg/L
- Barium (Ba): 100 mg/L
- Cadmium (Cd): 1.0 mg/L
- Chromium (Cr): 5.0 mg/L
- Mercury (Hg): 0.2 mg/L
- Lead (Pb): 5.0 mg/L
- Selenium (Se): 1.0 mg/L

Goodfellow Federal Center Airborne Metals Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 104F			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
104F-MetA-01	1st Floor Column M 35	< 6.65	$\mu\text{g}/\text{m}^3$
104F-MetA-02	1st Floor Column L 32	< 6.65	$\mu\text{g}/\text{m}^3$
104F-MetA-03	1st Floor Column M 30	< 6.65	$\mu\text{g}/\text{m}^3$
104F-MetA-04	1st Floor Column P 28	< 6.65	$\mu\text{g}/\text{m}^3$
104F-MetA-05	2nd Floor Column M 35.5	< 6.65	$\mu\text{g}/\text{m}^3$
104F-MetA-06	2nd Floor Column P 35	< 6.65	$\mu\text{g}/\text{m}^3$
104F-MetA-07	2nd Floor Column L 31	< 6.65	$\mu\text{g}/\text{m}^3$
104F-MetA-08	2nd Floor Column P 29	< 6.65	$\mu\text{g}/\text{m}^3$
104F-MetA-09	Roof Exterior	< 6.65	$\mu\text{g}/\text{m}^3$
104F-MetA-10	Blank	< 2.5	$\mu\text{g}/\text{m}^3$

< = below limit of detection

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

SanAir Technologies Laboratory

Analysis Report

prepared for

Occu-Tec

Report Date: 9/20/2017
Project Name: IAQ Sampling
Building 104F
Project #: 917004.002
SanAir ID#: 17036198



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

Occu-Tec
100 NW Business Park Lane
Riverside, MO 64150

September 20, 2017

SanAir ID # 17036198
Project Name: IAQ Sampling Building 104F
Project Number: 917004.002

Dear Justin Arnold,

We at SanAir would like to thank you for the work you recently submitted. The 10 sample(s) were received on Wednesday, September 13, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 104F-MetA-01, 104F-MetA-02, 104F-MetA-03, 104F-MetA-04, 104F-MetA-05, 104F-MetA-06, 104F-MetA-07, 104F-MetA-08, 104F-MetA-09, 104F-MetA-10.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

(b) (6)

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:

10 sample(s) in Good condition



1551 Oakbridge Dr STE B
 Powhatan, VA 23139
 804.897.1177 / 888.895.1177
 Fax 804.897.0070
 sanair.com

**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 17030198

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-810-3276
Address: 100 NW Business Park Lane	Project Name: IAQ Sampling Building 104F	Phone #: 816-994-3428
City, St., Zip: Riverside, MO 64150	Date Collected: 9-5-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in:	Email:

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead <input type="checkbox"/>	ICP-total concentration of metals (please list metals): Do Not Include Mercury		
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>			
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead <input type="checkbox"/>			
<input type="checkbox"/> Other:	TCLP for RCRA 8 Metals <input type="checkbox"/>			
Turn Around Time	Same Day <input type="checkbox"/>	1 Day <input type="checkbox"/>	2 days <input type="checkbox"/>	3 Days <input type="checkbox"/>
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
104F-MetA-01	9-5-2017	Column M 35 - 1st Floor	2.35	11:05	1:45	376 L
104F-MetA-02	9-5-2017	Column L 32 - 1st Floor	2.35	11:08	1:48	376 L
104F-MetA-03	9-5-2017	Column M 30 - 1st Floor	2.35	11:11	1:51	376 L
104F-MetA-04	9-5-2017	Column P 28 - 1st Floor	2.35	11:13	1:53	376 L
104F-MetA-05	9-5-2017	Column M 35.5 - 2nd Floor	2.35	11:16	1:56	376 L
104F-MetA-06	9-5-2017	Column P 35 - 2nd Floor	2.35	11:19	1:59	376 L
104F-MetA-07	9-5-2017	Column L 31 - 2nd Floor	2.35	11:22	2:02	376 L
104F-MetA-08	9-5-2017	Column P 29 - 2nd Floor	2.35	11:25	2:05	376 L
104F-MetA-09	9-5-2017	Roof	2.35	11:30	2:10	376 L
104F-MetA-10	9-5-2017	Blank	NA	NA	NA	NA

Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
(b) (6)	9-12-17		(b) (6)	9/13/17	10:30

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



SanAir Technologies Laboratory, Inc

1551 Oakbridge Dr, Suite B Powhatan, VA 23139
 804.897.1177 Toll Free 888.895.1177 Fax: 804.897.0070
www.sanair.com

SanAir ID Number
 17036198
 Final Report

email:iaq@sanair.com

Name: Occu-Tec
Address: 100 NW Business Park lane
 Riverside, MO 64150

Project Number: 917004.002
P.O. Number:
Project Name: IAQ Sampling Building 104F

Collected Date: 9/5/2017
Received Date: 9/13/2017 10:30 AM
Report Date: 9/20/2017 12:45 PM
Analyst : C. Peterson

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036198-01	104F-MetA-01	Silver (Ag)	Column M 35 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036198-02	104F-MetA-02	Silver (Ag)	Column L 32 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036198-03	104F-MetA-03	Silver (Ag)	Column M 30 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

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Signature: (b) (6)
 Date: 9/15/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Analytes Requested: RCRA 7 Metals
 Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036198-04	104F-MetA-04	Silver (Ag)	Column P 28 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036198-05	104F-MetA-05	Silver (Ag)	Column M 35.5 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036198-06	104F-MetA-06	Silver (Ag)	Column P 35 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036198-07	104F-MetA-07	Silver (Ag)	Column L 31 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036198-08	104F-MetA-08	Silver (Ag)	Column P 29 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

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Signature: (b) (6)
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Reviewed: (b) (6)
 Date: 9/20/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036198-09	104F-MetA-09	Silver (Ag)	Roof	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036198-10	104F-MetA-10	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

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Signature: (b) (6)
 Date: 9/15/2017

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 Date: 9/20/2017

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- Results are not corrected for blanks
- All quality control results are acceptable unless otherwise noted
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Lead Exposure Limits

- Air
- 1.5 µg/m³ EPA National Ambient Air Quality Standard (Quality Time – Weight Average)
 - 30 µg/m³ OSHA Action Level (8-hour time weighted average)
 - 50 µg/m³ OSHA Permissible Exposure Limit (General Industry)
 - 50 µg/m³ OSHA Permissible Exposure Limit (Construction)

Dust

- 10 µg/ft² HUD Clearance Level for Floors
- 100 µg/ft² HUD Clearance Level for Interior Window Sills
- 100 µg/ft² HUD Clearance Level for Window Troughs
- 40 µg/ft² HUD Clearance Level for Porch Floors

Water

- 15 ppb (µg/liter) EPA Maximum Containment Level

Paint

- 0.5% by weight HUD definition of lead based paint
- 1.0 mg/cm²
- 5000 ppm

Soil

- 400 ppm HUD-Play areas and high-contact areas for children

TCLP EPA Limits:

- Silver (Ag): 5.0 mg/L
- Arsenic (As): 5.0 mg/L
- Barium (Ba): 100 mg/L
- Cadmium (Cd): 1.0 mg/L
- Chromium (Cr): 5.0 mg/L
- Mercury (Hg): 0.2 mg/L
- Lead (Pb): 5.0 mg/L
- Selenium (Se): 1.0 mg/L

Goodfellow Federal Center Airborne Metals Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 104			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
104-MetA-01	2nd Floor Column F 51	< 6.65	µg/m ³
104-MetA-02	2nd Floor Column C 50	< 5.17	µg/m ³
104-MetA-03	2nd Floor Column H 46	< 6.65	µg/m ³
104-MetA-04	2nd Floor Column C 45	< 7.51	µg/m ³
104-MetA-05	2nd Floor Column F 44	< 6.65	µg/m ³
104-MetA-06	2nd Floor Column H 39	< 6.65	µg/m ³
104-MetA-07	2nd Floor Column D 37	< 6.65	µg/m ³
104-MetA-08	2nd Floor Column J 33	< 6.65	µg/m ³
104-MetA-09	2nd Floor Column F 32	< 6.65	µg/m ³
104-MetA-10	2nd Floor Column H 25	< 6.65	µg/m ³
104-MetA-11	2nd Floor Column D 28	< 6.65	µg/m ³
104-MetA-12	2nd Floor Column E 20	< 6.65	µg/m ³
104-MetA-13	2nd Floor Column A 19	< 6.65	µg/m ³
104-MetA-14	2nd Floor Column H 16	< 6.65	µg/m ³
104-MetA-15	2nd Floor Column F 14	< 6.65	µg/m ³
104-MetA-16	2nd Floor Column H 8	< 6.65	µg/m ³
104-MetA-17	2nd Floor Column H 2	< 6.65	µg/m ³
104-MetA-18	2nd Floor Column F 2	< 6.65	µg/m ³
104-MetA-19	Roof Exterior North Side	< 6.65	µg/m ³
104-MetA-20	Roof Exterior South Side	< 6.65	µg/m ³
104-MetA-21	1st Floor Column H 4	< 6.65	µg/m ³
104-MetA-22	1st Floor Column B 5	< 6.65	µg/m ³
104-MetA-23	1st Floor Column D 9	< 6.65	µg/m ³
104-MetA-24	1st Floor Column G 8	< 6.65	µg/m ³
104-MetA-25	1st Floor Column F 9	< 6.65	µg/m ³
104-MetA-26	1st Floor Column E 11	< 6.65	µg/m ³
104-MetA-27	1st Floor Column J 13	< 6.65	µg/m ³
104-MetA-28	1st Floor Column B 21	< 6.65	µg/m ³
104-MetA-29	1st Floor Column J 22	< 6.65	µg/m ³
104-MetA-30	1st Floor Column J 24	< 6.65	µg/m ³
104-MetA-31	1st Floor Column E 25	< 6.65	µg/m ³
104-MetA-32	1st Floor Column A 29	< 6.65	µg/m ⁴
104-MetA-33	1st Floor Column G 30	< 6.65	µg/m ⁵
104-MetA-34	1st Floor Column J 36	< 6.65	µg/m ⁶
104-MetA-35	1st Floor Column A 40	< 7.97	µg/m ⁷
104-MetA-36	1st Floor Column J 46	< 6.65	µg/m ⁸
104-MetA-37	1st Floor Column E 50	< 6.65	µg/m ⁹
104-MetA-38	1st Floor Column A 52	< 6.65	µg/m ¹⁰
104-MetA-39	Blank	< 2.5	µg/m ¹¹

< = below limit of detection

µg/m³ = micrograms per cubic meter

Goodfellow Federal Center Airborne Metals Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 104			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
104-MetA-40	Blank	< 2.5	$\mu\text{g}/\text{m}^{12}$
104-MetA-41	Blank	< 2.5	$\mu\text{g}/\text{m}^{13}$
104-MetA-42	Blank	< 2.5	$\mu\text{g}/\text{m}^{14}$

< = below limit of detection

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

SanAir Technologies Laboratory

Analysis Report

prepared for

Occu-Tec

Report Date: 9/20/2017
Project Name: IAQ Sampling
Building 104
Project #: 917004.002
SanAir ID#: 17036185



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

Occu-Tec
100 NW Business Park Lane
Riverside, MO 64150

September 20, 2017

SanAir ID # 17036185
Project Name: IAQ Sampling Building 104
Project Number: 917004.002

Dear Justin Arnold,

We at SanAir would like to thank you for the work you recently submitted. The 42 sample(s) were received on Wednesday, September 13, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 104-MetA-01, 104-MetA-02, 104-MetA-03, 104-MetA-04, 104-MetA-05, 104-MetA-06, 104-MetA-07, 104-MetA-08, 104-MetA-09.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

(b) (6)

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:

42 sample(s) in Good condition



1551 Oakbridge Dr STE B
Powhatan, VA 23139
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sanair.com

**Metals & Lead
Chain of Custody**
Form 70, Revision 9, 01/19/2017

SanAir ID Number
17036185

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-810-3276
Address: 100 NW Business Park Lane	Project Name: IAQ Sampling Building 104	Phone #: 816-994-3428
City, St., Zip: Riverside, MO 64150	Date Collected: 9-6-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in:	Email:

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead	ICP-total concentration of metals (please list metals): Do Not Include Mercury
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>	
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead	
Other:	TCLP for RCRA 8 Metals	

Turn Around Time	Same Day	1 Day	2 days	3 Days
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
104-MetA-01	9-6-2017	Column F 51 - 2nd Floor	2.35	7:29	10:09	376 L
104-MetA-02	9-6-2017	Column C 50 - 2nd Floor	3.69	7:34	10:14	483.2 L
104-MetA-03	9-6-2017	Column H 46 - 2nd Floor	2.35	7:40	10:20	376 L
104-MetA-04	9-6-2017	Column C 45 - 2nd Floor	2.08	7:44	10:24	332.8 L
104-MetA-05	9-6-2017	Column F 44 - 2nd Floor	2.35	7:49	10:29	376 L
104-MetA-06	9-6-2017	Column H 39 - 2nd Floor	2.35	7:54	10:34	376 L
104-MetA-07	9-6-2017	Column D 37 - 2nd Floor	2.35	7:58	10:38	376 L
104-MetA-08	9-6-2017	Column J 33 - 2nd Floor	2.35	8:02	10:42	376 L
104-MetA-09	9-6-2017	Column F 32 - 2nd Floor	2.35	8:06	10:46	376 L
104-MetA-01	9-6-2017	Column H 25 - 2nd Floor	2.35	8:11	10:51	376 L
104-MetA-11	9-6-2017	Column D 28 - 2nd Floor	2.35	8:17	10:57	376 L
104-MetA-12	9-6-2017	Column E 20 - 2nd Floor	2.35	8:20	11:00	376 L
104-MetA-13	9-6-2017	Column A 19 - 2nd Floor	2.35	8:23	11:03	376 L
104-MetA-14	9-6-2017	Column H 16 - 2nd Floor	2.35	8:28	11:08	376 L

Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
(b) (6)	9-12-17		(b) (6)	SEP 13 2017	10:50AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



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**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 17036185

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-810-3276
Address: 100 NW Business Park Lane	Project Name: IAQ Sampling Building 104	Phone #: 816-994-3428
City, St., Zip: Riverside, MO 64150	Date Collected: 9-6-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in:	Email:

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead	ICP-total concentration of metals (please list metals): Do Not Include Mercury		
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>			
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead			
<input type="checkbox"/> Other:	TCLP for RCRA 8 Metals			
Turn Around Time	<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day	<input type="checkbox"/> 2 days	<input type="checkbox"/> 3 Days
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
104-MetA-15	9-6-2017	Column F 14 - 2nd Floor	2.35	8:33	11:13	376 L
104-MetA-16	9-6-2017	Column H 8 - 2nd Floor	2.35	8:36	11:16	376 L
104-MetA-17	9-6-2017	Column H 2 - 2nd Floor	2.35	8:43	11:23	376 L
104-MetA-18	9-6-2017	Column F 2 - 2nd Floor	2.08	8:48	11:28	376 L
104-MetA-19	9-6-2017	Roof - North Side	2.35	8:54	11:34	376 L
104-MetA-20	9-6-2017	Roof - South Side	2.35	8:56	11:36	376 L
104-MetA-21	9-6-2017	Column H 4 - 1st Floor	2.35	1:27	4:07	376 L
104-MetA-22	9-6-2017	Column B 5 - 1st Floor	2.35	1:30	4:10	376 L
104-MetA-23	9-6-2017	Column D 9 - 1st Floor	2.35	1:32	4:12	376 L
104-MetA-24	9-6-2017	Column G 8 - 1st Floor	2.35	1:35	4:15	376 L
104-MetA-25	9-6-2017	Column F 9 - 1st Floor	2.35	1:37	4:17	376 L
104-MetA-26	9-6-2017	Column E 11 - 1st Floor	2.35	1:41	4:21	376 L
104-MetA-27	9-6-2017	Column J 13 - 1st Floor	2.35	1:43	4:23	376 L
104-MetA-28	9-6-2017	Column B 21 - 1st Floor	2.35	1:46	4:26	376 L

Special Instructions	
-----------------------------	--

Relinquished by	Date	Time	Received by	Date	Time
(b) (6)	9-12-17		(b) (6)	SEP 13 2017	10:32 AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



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**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number

17036185

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-810-3276
Address: 100 NW Business Park Lane	Project Name: IAQ Sampling Building 104	Phone #: 816-994-3428
City, St., Zip: Riverside, MO 64150	Date Collected: 9-6-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in:	Email:

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead	ICP-total concentration of metals (please list metals): Do Not Include Mercury
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>	
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead	
<input type="checkbox"/> Other:	TCLP for RCRA 8 Metals	

Turn Around Time	Same Day	1 Day	2 days	3 Days
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
104-MetA-29	9-6-2017	Column J 22 - 1st Floor	2.35	1:49	4:29	376 L
104-MetA-30	9-6-2017	Column J 24 - 1st Floor	2.35	1:51	4:31	376 L
104-MetA-31	9-6-2017	Column E 25 - 1st Floor	2.35	1:53	4:33	376 L
104-MetA-32	9-6-2017	Column A 29 - 1st Floor	2.08	1:55	4:35	376 L
104-MetA-33	9-6-2017	Column G 30 - 1st Floor	2.35	1:58	4:38	376 L
104-MetA-34	9-6-2017	Column J 36 - 1st Floor	2.35	2:01	4:41	376 L
104-MetA-35	9-6-2017	Column A 40 - 1st Floor	1.96	2:03	4:43	313.6 L
104-MetA-36	9-6-2017	Column J 46 - 1st Floor	2.35	2:05	4:45	376 L
104-MetA-37	9-6-2017	Column E 50 - 1st Floor	2.35	2:08	4:48	376 L
104-MetA-38	9-6-2017	Column A 52 - 1st Floor	2.35	2:11	4:51	376 L
104-MetA-39	9-6-2017	Blank	NA	NA	NA	NA
104-MetA-40	9-6-2017	Blank	NA	NA	NA	NA
104-MetA-41	9-6-2017	Blank	NA	NA	NA	NA
104-MetA-42	9-6-2017	Blank	NA	NA	NA	NA

Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
(b) (6)	9-12-17		(b) (6)	SEP 13 2017	10:30AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



SanAir Technologies Laboratory, Inc

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www.sanair.com

SanAir ID Number
 17036185
 Final Report

email:iaq@sanair.com

Name: Occu-Tec
Address: 100 NW Business Park lane
 Riverside, MO 64150

Project Number: 917004.002
P.O. Number:
Project Name: IAQ Sampling Building 104

Collected Date: 9/6/2017
Received Date: 9/13/2017 10:30 AM
Report Date: 9/20/2017 11:45 AM
Analyst : C. Peterson

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036185-01	104-MetA-01	Silver (Ag)	Column F 51 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-02	104-MetA-02	Silver (Ag)	Column C 50 - 2nd Floor	<5.17	2.5
		Arsenic (As)		<5.17	2.5
		Barium (Ba)		<5.17	2.5
		Cadmium (Cd)		<5.17	2.5
		Chromium (Cr)		<5.17	2.5
		Lead (Pb)		<5.17	2.5
		Selenium (Se)		<5.17	2.5
17036185-03	104-MetA-03	Silver (Ag)	Column H 46 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/18/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Analytes Requested: RCRA 7 Metals
 Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036185-04	104-MetA-04	Silver (Ag)	Column C 45 - 2nd Floor	<7.51	2.5
		Arsenic (As)		<7.51	2.5
		Barium (Ba)		<7.51	2.5
		Cadmium (Cd)		<7.51	2.5
		Chromium (Cr)		<7.51	2.5
		Lead (Pb)		<7.51	2.5
		Selenium (Se)		<7.51	2.5
17036185-05	104-MetA-05	Silver (Ag)	Column F 44 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-06	104-MetA-06	Silver (Ag)	Column H 39 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-07	104-MetA-07	Silver (Ag)	Column D 37 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-08	104-MetA-08	Silver (Ag)	Column J 33 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/18/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Analytes Requested: RCRA 7 Metals
 Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036185-09	104-MetA-09	Silver (Ag)	Column F 32 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-10	104-MetA-10	Silver (Ag)	Column H 25 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-11	104-MetA-11	Silver (Ag)	Column D 28 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-12	104-MetA-12	Silver (Ag)	Column E 20 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-13	104-MetA-13	Silver (Ag)	Column A 19 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/18/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Analytes Requested: RCRA 7 Metals
 Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036185-14	104-MetA-14	Silver (Ag)	Column H 16 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-15	104-MetA-15	Silver (Ag)	Column F 14 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-16	104-MetA-16	Silver (Ag)	Column H 8 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-17	104-MetA-17	Silver (Ag)	Column H 2 - 2nd Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-18	104-MetA-18	Silver (Ag)	104-MetA-18	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature:

(b) (6)

Date: 9/18/2017

Reviewed:

(b) (6)

Date:

9/20/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036185-19	104-MetA-19	Silver (Ag)	Roof - North Side	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-20	104-MetA-20	Silver (Ag)	Roof - South Side	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-21	104-MetA-21	Silver (Ag)	Column H 4 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-22	104-MetA-22	Silver (Ag)	Column B 5 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-23	104-MetA-23	Silver (Ag)	Column D 9 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/18/2017

Reviewed: (b) (6)
 Date: 9/20/2017

Analytes Requested: RCRA 7 Metals

Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036185-24	104-MetA-24	Silver (Ag)	Column G 8 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-25	104-MetA-25	Silver (Ag)	Column F 9 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-26	104-MetA-26	Silver (Ag)	Column E 11 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-27	104-MetA-27	Silver (Ag)	Column J 13 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-28	104-MetA-28	Silver (Ag)	Column B 21 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
Date: 9/18/2017

Reviewed: (b) (6)
Date: 9/20/2017

Analytes Requested: RCRA 7 Metals

Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036185-29	104-MetA-29	Silver (Ag)	Column J 22 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-30	104-MetA-30	Silver (Ag)	Column J 24 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-31	104-MetA-31	Silver (Ag)	Column E 25 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-32	104-MetA-32	Silver (Ag)	Column A 29 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-33	104-MetA-33	Silver (Ag)	Column G 30 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
Date: 9/18/2017

Reviewed: (b) (6)
Date: 9/20/2017

Analytes Requested: RCRA 7 Metals

Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036185-34	104-MetA-34	Silver (Ag)	Column J 36 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-35	104-MetA-35	Silver (Ag)	Column A 40 - 1st Floor	<7.97	2.5
		Arsenic (As)		<7.97	2.5
		Barium (Ba)		<7.97	2.5
		Cadmium (Cd)		<7.97	2.5
		Chromium (Cr)		<7.97	2.5
		Lead (Pb)		<7.97	2.5
		Selenium (Se)		<7.97	2.5
17036185-36	104-MetA-36	Silver (Ag)	Column J 46 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-37	104-MetA-37	Silver (Ag)	Column E 50 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17036185-38	104-MetA-38	Silver (Ag)	Column A 52 - 1st Floor	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature:

(b) (6)

Date: 9/18/2017

Reviewed:

(b) (6)

Date: 9/20/2017

Analytes Requested: RCRA 7 Metals

Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17036185-39	104-MetA-39	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5
17036185-40	104-MetA-40	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5
17036185-41	104-MetA-41	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5
17036185-42	104-MetA-42	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
Date: 9/18/2017

Reviewed: (b) (6)
Date: 9/20/2017

Disclaimer

- Results relate only to the items tested
- Results are not corrected for blanks
- All quality control results are acceptable unless otherwise noted
- SanAir Technologies Laboratory, Inc is not responsible for sample collection or interpretation made by others
- This report does not constitute endorsement by AIHA/NVLAP and/or any other U.S. governmental Agencies; and may not be certified by every local, state or federal regulatory
- SanAir Technologies Laboratory, Inc only assures the precision and accuracy of the data it generates and assumes no responsibility for errors or biasing that occur during collection prior
- SanAir's Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using wipe materials meeting ASTM-E1792. The MDL and RL may not be relevant or applicable for

Lead Exposure Limits

Air

- 1.5 µg/m³ EPA National Ambient Air Quality Standard (Quality Time – Weight Average)
- 30 µg/m³ OSHA Action Level (8-hour time weighted average)
- 50 µg/m³ OSHA Permissible Exposure Limit (General Industry)
- 50 µg/m³ OSHA Permissible Exposure Limit (Construction)

Dust

- 10 µg/ft² HUD Clearance Level for Floors
- 100 µg/ft² HUD Clearance Level for Interior Window Sills
- 100 µg/ft² HUD Clearance Level for Window Troughs
- 40 µg/ft² HUD Clearance Level for Porch Floors

Water

- 15 ppb (µg/liter) EPA Maximum Containment Level

Paint

- 0.5% by weight HUD definition of lead based paint
- 1.0 mg/cm²
- 5000 ppm

Soil

- 400 ppm HUD-Play areas and high-contact areas for children

TCLP EPA Limits:

- Silver (Ag): 5.0 mg/L
- Arsenic (As): 5.0 mg/L
- Barium (Ba): 100 mg/L
- Cadmium (Cd): 1.0 mg/L
- Chromium (Cr): 5.0 mg/L
- Mercury (Hg): 0.2 mg/L
- Lead (Pb): 5.0 mg/L
- Selenium (Se): 1.0 mg/L

Goodfellow Federal Center Airborne Metals Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 105E			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
105E-MetA-01	1st Floor Column N 43	< 6.65	µg/m ³
105E-MetA-02	1st Floor Column P 46	< 7.97	µg/m ³
105E-MetA-03	1st Floor Column O 52	< 6.65	µg/m ³
105E-MetA-04	1st Floor SW Loading Dock	< 6.65	µg/m ³
105E-MetA-05	2nd Floor Column N 43	< 6.65	µg/m ³
105E-MetA-06	2nd Floor Column O 47	< 6.65	µg/m ³
105E-MetA-07	2nd Floor Column O 49	< 6.65	µg/m ³
105E-MetA-08	2nd Floor Column M 51 1/2	< 6.65	µg/m ³
105E-MetA-09	Roof north End	< 6.65	µg/m ⁴
105E-MetA-10	Blank	< 2.5	µg/m ⁵

< = below limit of detection
 µg/m³ = micrograms per cubic meter

SanAir Technologies Laboratory

Analysis Report

prepared for

Occu-Tec

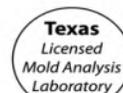
Report Date: 9/5/2017
Project Name: GFC Air Sampling -
105E
Project #: 917004.002
SanAir ID#: 17033692



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

Occu-Tec
100 NW Business Park Lane
Riverside, MO 64150

September 5, 2017

SanAir ID # 17033692
Project Name: GFC Air Sampling - 105E
Project Number: 917004.002

Dear Justin Arnold,

We at SanAir would like to thank you for the work you recently submitted. The 10 sample(s) were received on Tuesday, August 29, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 105E-MetA-01, 105E-MetA-02, 105E-MetA-03, 105E-MetA-04, 105E-MetA-05, 105E-MetA-06, 105E-MetA-07, 105E-MetA-08, 105E-MetA-09, 105E-MetA-10.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

(b) (6)

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
10 sample(s) in Good condition



1551 Oakbridge Dr STE B
 Powhatan, VA 23139
 804.897.1177 / 888.895.1177
 Fax 804.897.0070
 sanair.com

**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 170 33692

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-994-3428
Address: 100 NW Business Park Lane	Project Name: GFC Air Sampling - 105E	Phone #: 816-810-3276
City, St., Zip: Riverside, MO 64150	Date Collected: 8-22-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in: MO	Email: kheriford@occutec.com

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead <input type="checkbox"/>	<input type="checkbox"/> ICP-total concentration of metals (please list metals): Do not include Mercury		
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>			
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead <input type="checkbox"/>			
<input type="checkbox"/> Other:	TCLP for RCRA 8 Metals <input type="checkbox"/>			
Turn Around Time	Same Day <input type="checkbox"/>	1 Day <input type="checkbox"/>	2 days <input type="checkbox"/>	3 Days <input type="checkbox"/>
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
105E-MetA-01	8-23-2017	1st Floor Column N 43	2.35	12:55	3:35	376
105E-MetA-02	8-23-2017	1st Floor Column P 46	1.96	12:59	3:39	313.6
105E-MetA-03	8-23-2017	1st Floor Column O 52	2.35	13:02	3:42	376
105E-MetA-04	8-23-2017	1st Floor SW Loading Dock	2.35	13:04	3:44	376
105E-MetA-05	8-23-2017	2nd Floor Column N 43	2.35	13:07	3:47	376
105E-MetA-06	8-23-2017	2nd Floor Column O 47	2.35	13:11	3:51	376
105E-MetA-07	8-23-2017	2nd Floor Column O 49	2.35	13:16	3:56	376
105E-MetA-08	8-23-2017	2nd Floor Column M 51.5	2.35	13:18	3:58	376
105E-MetA-09	8-23-2017	Roof North Doghouse	2.35	13:22	4:02	376
105E-MetA-10	8-23-2017	Blank	NA	NA	NA	NA

Special Instructions	
----------------------	--

Relinquished by	Date	Time	Received by	Date	Time
			(b) (6)	AUG 28 2017	8:30 AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



SanAir Technologies Laboratory, Inc

1551 Oakbridge Dr, Suite B Powhatan, VA 23139
 804.897.1177 Toll Free 888.895.1177 Fax: 804.897.0070
www.sanair.com

SanAir ID Number
 17033692
 Final Report

email:iaq@sanair.com

Name: Occu-Tec
Address: 100 NW Business Park lane
 Riverside, MO 64150

Project Number: 917004.002
P.O. Number:
Project Name: GFC Air Sampling - 105E

Collected Date: 8/22/2017
Received Date: 8/28/2017 8:55 AM
Report Date: 9/5/2017 9:50 AM
Analyst : C. Peterson

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033692-01	105E-MetA-01	Silver (Ag)	1st Floor Column N 43	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033692-02	105E-MetA-02	Silver (Ag)	1st Floor Column P 46	<7.97	2.5
		Arsenic (As)		<7.97	2.5
		Barium (Ba)		<7.97	2.5
		Cadmium (Cd)		<7.97	2.5
		Chromium (Cr)		<7.97	2.5
		Lead (Pb)		<7.97	2.5
		Selenium (Se)		<7.97	2.5
17033692-03	105E-MetA-03	Silver (Ag)	1st Floor Column O 52	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 8/28/2017

Reviewed: (b) (6)
 Date: 9/5/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033692-04	105E-MetA-04	Silver (Ag)	1st Floor SW Loading Dock	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033692-05	105E-MetA-05	Silver (Ag)	2nd Floor Column N 43	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033692-06	105E-MetA-06	Silver (Ag)	2nd Floor Column O 47	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033692-07	105E-MetA-07	Silver (Ag)	2nd Floor Column O 49	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033692-08	105E-MetA-08	Silver (Ag)	2nd Floor Column N 51.5	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 8/29/2017

Reviewed: (b) (6)
 Date: 9/5/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033692-09	105E-MetA-09	Silver (Ag)	Roof North Doghouse	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033692-10	105E-MetA-10	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 8/29/2017

Reviewed: (b) (6)
 Date: 9/5/2017

Disclaimer

- Results relate only to the items tested
- Results are not corrected for blanks
- All quality control results are acceptable unless otherwise noted
- SanAir Technologies Laboratory, Inc is not responsible for sample collection or interpretation made by others
- This report does not constitute endorsement by AIHA/NVLAP and/or any other U.S. governmental Agencies; and may not be certified by every local, state or federal regulatory
- SanAir Technologies Laboratory, Inc only assures the precision and accuracy of the data it generates and assumes no responsibility for errors or biasing that occur during collection prior
- SanAir's Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using wipe materials meeting ASTM-E1792. The MDL and RL may not be relevant or applicable for

Lead Exposure Limits

- Air
- 1.5 µg/m³ EPA National Ambient Air Quality Standard (Quality Time – Weight Average)
- 30 µg/m³ OSHA Action Level (8-hour time weighted average)
- 50 µg/m³ OSHA Permissible Exposure Limit (General Industry)
- 50 µg/m³ OSHA Permissible Exposure Limit (Construction)

Dust

- 10 µg/ft² HUD Clearance Level for Floors
- 100 µg/ft² HUD Clearance Level for Interior Window Sills
- 100 µg/ft² HUD Clearance Level for Window Troughs
- 40 µg/ft² HUD Clearance Level for Porch Floors

Water

- 15 ppb (µg/liter) EPA Maximum Containment Level

Paint

- 0.5% by weight HUD definition of lead based paint
- 1.0 mg/cm²
- 5000 ppm

Soil

- 400 ppm HUD-Play areas and high-contact areas for children

TCLP EPA Limits:

- Silver (Ag): 5.0 mg/L
- Arsenic (As): 5.0 mg/L
- Barium (Ba): 100 mg/L
- Cadmium (Cd): 1.0 mg/L
- Chromium (Cr): 5.0 mg/L
- Mercury (Hg): 0.2 mg/L
- Lead (Pb): 5.0 mg/L
- Selenium (Se): 1.0 mg/L

Goodfellow Federal Center Airborne Metals Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 105F			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
105F-MetA-01	1st Floor Column P 28	< 6.65	$\mu\text{g}/\text{m}^3$
105F-MetA-02	1st Floor Column P 32	< 6.65	$\mu\text{g}/\text{m}^3$
105F-MetA-03	1st Floor Column L 34	< 6.65	$\mu\text{g}/\text{m}^3$
105F-MetA-04	1st Floor Column M 36	< 6.65	$\mu\text{g}/\text{m}^3$
105F-MetA-05	2nd Floor Column E 35	< 6.65	$\mu\text{g}/\text{m}^3$
105F-MetA-06	2nd Floor Column M 33	< 6.65	$\mu\text{g}/\text{m}^3$
105F-MetA-07	2nd Floor Column N 28	< 6.65	$\mu\text{g}/\text{m}^3$
105F-MetA-08	2nd Floor Column P 27	< 6.65	$\mu\text{g}/\text{m}^3$
105F-MetA-09	Exterior on Roof	< 6.65	$\mu\text{g}/\text{m}^4$
105F-MetA-10	Blank	< 2.5	$\mu\text{g}/\text{m}^5$

< = below limit of detection

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

SanAir Technologies Laboratory

Analysis Report

prepared for

Occu-Tec

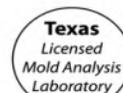
Report Date: 9/5/2017
Project Name: GFC Air Sampling -
105F
Project #: 917004.002
SanAir ID#: 17033695



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

Occu-Tec
100 NW Business Park Lane
Riverside, MO 64150

September 5, 2017

SanAir ID # 17033695
Project Name: GFC Air Sampling - 105F
Project Number: 917004.002

Dear Justin Arnold,

We at SanAir would like to thank you for the work you recently submitted. The 10 sample(s) were received on Tuesday, August 29, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 105F-MetA-01, 105F-MetA-02, 105F-MetA-03, 105F-MetA-04, 105F-MetA-05, 105F-MetA-06, 105F-MetA-07, 105F-MetA-08, 105F-MetA-09, 105F-MetA-10.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

(b) (6)

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:

10 sample(s) in Good condition



1551 Oakbridge Dr STE B
 Powhatan, VA 23139
 804.897.1177 / 888.895.1177
 Fax 804.897.0070
 sanair.com

**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 17033695

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-994-3428
Address: 100 NW Business Park Lane	Project Name: GFC Air Sampling - 105F	Phone #: 816-810-3276
City, St., Zip: Riverside, MO 64150	Date Collected: 8-22-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in: MO	Email: kheriford@occutec.com

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead <input type="checkbox"/>	<input type="checkbox"/> ICP-total concentration of metals (please list metals):
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>	
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead <input type="checkbox"/>	Do not include Mercury
<input type="checkbox"/> Other:	TCLP for RCRA 8 Metals <input type="checkbox"/>	

Turn Around Time	Same Day <input type="checkbox"/>	1 Day <input type="checkbox"/>	2 days <input type="checkbox"/>	3 Days <input type="checkbox"/>
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
105F-MetA-01	8-23-2017	1st Floor Column P 28	2.35	13:33	16:13	376
105F-MetA-02	8-23-2017	1st Floor Column P 32	2.35	13:36	16:16	376
105F-MetA-03	8-23-2017	1st Floor Column L 34	2.35	13:39	16:19	376
105F-MetA-04	8-23-2017	1st Floor Column M 36	2.35	13:43	16:23	376
105F-MetA-05	8-23-2017	2nd Floor Column E 35	2.35	13:48	16:28	376
105F-MetA-06	8-23-2017	2nd Floor Column M 33	2.35	13:53	16:33	376
105F-MetA-07	8-23-2017	2nd Floor Column N 28	2.35	13:56	16:36	376
105F-MetA-08	8-23-2017	2nd Floor Column P 27	2.35	13:59	16:39	376
105F-MetA-09	8-23-2017	Roof Doghouse	2.35	14:02	16:44	376
105F-MetA-10	8-23-2017	Blank	NA	NA	NA	NA

Special Instructions	
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Relinquished by	Date	Time	Received by	Date	Time
			(b) (6)	AUG 28 2017	8:55 AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush LAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



SanAir Technologies Laboratory, Inc

1551 Oakbridge Dr, Suite B Powhatan, VA 23139
 804.897.1177 Toll Free 888.895.1177 Fax: 804.897.0070
www.sanair.com

SanAir ID Number
 17033695
 Final Report

email:iaq@sanair.com

Name: Occu-Tec
Address: 100 NW Business Park lane
 Riverside, MO 64150

Project Number: 917004.002
P.O. Number:
Project Name: GFC Air Sampling - 105F

Collected Date: 8/22/2017
Received Date: 8/28/2017 8:55 AM
Report Date: 9/5/2017 10:00 AM
Analyst : C. Peterson

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033695-01	105F-MetA-01	Silver (Ag)	1st Floor Column P 28	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033695-02	105F-MetA-02	Silver (Ag)	1st Floor Column P 32	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033695-03	105F-MetA-03	Silver (Ag)	1st Floor Column L 34	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 8/29/2017

Reviewed: (b) (6)
 Date: 9/5/2017

Analytes Requested: RCRA 7 Metals
 Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033695-04	105F-MetA-04	Silver (Ag)	1st Floor Column M 36	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033695-05	105F-MetA-05	Silver (Ag)	2nd Floor Column E 35	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033695-06	105F-MetA-06	Silver (Ag)	2nd Floor Column E 33	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033695-07	105F-MetA-07	Silver (Ag)	2nd Floor Column N 28	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033695-08	105F-MetA-08	Silver (Ag)	2nd Floor Column P 27	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

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Signature: (b) (6)
 Date: 8/29/2017

Reviewed: (b) (6)
 Date: 9/5/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033695-09	105F-MetA-09	Silver (Ag)	Roof Doghouse	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033695-10	105F-MetA-10	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 8/29/2017

Reviewed: (b) (6)
 Date: 9/5/2017

Disclaimer

- Results relate only to the items tested
- Results are not corrected for blanks
- All quality control results are acceptable unless otherwise noted
- SanAir Technologies Laboratory, Inc is not responsible for sample collection or interpretation made by others
- This report does not constitute endorsement by AIHA/NVLAP and/or any other U.S. governmental Agencies; and may not be certified by every local, state or federal regulatory
- SanAir Technologies Laboratory, Inc only assures the precision and accuracy of the data it generates and assumes no responsibility for errors or biasing that occur during collection prior
- SanAir's Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using wipe materials meeting ASTM-E1792. The MDL and RL may not be relevant or applicable for

Lead Exposure Limits

- Air
- 1.5 µg/m³ EPA National Ambient Air Quality Standard (Quality Time – Weight Average)
 - 30 µg/m³ OSHA Action Level (8-hour time weighted average)
 - 50 µg/m³ OSHA Permissible Exposure Limit (General Industry)
 - 50 µg/m³ OSHA Permissible Exposure Limit (Construction)

Dust

- 10 µg/ft² HUD Clearance Level for Floors
- 100 µg/ft² HUD Clearance Level for Interior Window Sills
- 100 µg/ft² HUD Clearance Level for Window Troughs
- 40 µg/ft² HUD Clearance Level for Porch Floors

Water

- 15 ppb (µg/liter) EPA Maximum Containment Level

Paint

- 0.5% by weight HUD definition of lead based paint
- 1.0 mg/cm²
- 5000 ppm

Soil

- 400 ppm HUD-Play areas and high-contact areas for children

TCLP EPA Limits:

- Silver (Ag): 5.0 mg/L
- Arsenic (As): 5.0 mg/L
- Barium (Ba): 100 mg/L
- Cadmium (Cd): 1.0 mg/L
- Chromium (Cr): 5.0 mg/L
- Mercury (Hg): 0.2 mg/L
- Lead (Pb): 5.0 mg/L
- Selenium (Se): 1.0 mg/L

Goodfellow Federal Center Airborne Metals Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 105L			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
105L-MetA-01	Column A 2	< 6.5	$\mu\text{g}/\text{m}^3$
105L-MetA-02	Column C 1/2 6	< 6.5	$\mu\text{g}/\text{m}^3$
105L-MetA-03	Column B 10	< 6.5	$\mu\text{g}/\text{m}^3$
105L-MetA-04	Column A 1/2 13	< 6.5	$\mu\text{g}/\text{m}^3$
105L-MetA-05	Column C 13	< 6.5	$\mu\text{g}/\text{m}^3$
105L-MetA-06	Blank	< 2.5	$\mu\text{g}/\text{m}^3$

< = below limit of detection

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

SanAir Technologies Laboratory

Analysis Report

prepared for

Occu-Tec

Report Date: 10/4/2017
Project Name: IAQ Sampling
Building 105L
Project #: 917004.002
SanAir ID#: 17038529



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

Occu-Tec
100 NW Business Park Lane
Riverside, MO 64150

October 4, 2017

SanAir ID # 17038529
Project Name: IAQ Sampling Building 105L
Project Number: 917004.002

Dear Justin Arnold,

We at SanAir would like to thank you for the work you recently submitted. The 6 sample(s) were received on Wednesday, September 27, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 105L-MetA-01, 105L-MetA-02, 105L-MetA-03, 105L-MetA-04, 105L-MetA-05, 105L-MetA-06.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

(b) (6)

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:

6 sample(s) in Good condition



SanAir Technologies Laboratory, Inc

1551 Oakbridge Dr, Suite B Powhatan, VA 23139
 804.897.1177 Toll Free 888.895.1177 Fax: 804.897.0070

www.sanair.com

email:iaq@sanair.com

SanAir ID Number
 17038529
 Final Report

Name: Occu-Tec
Address: 100 NW Business Park lane
 Riverside, MO 64150

Project Number: 917004.002
P.O. Number:
Project Name: IAQ Sampling Building 105L

Collected Date: 9/19/2017
Received Date: 9/27/2017 10:55 AM
Report Date: 10/4/2017 9:35 AM
Analyst : C. Peterson

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17038529-01	105L-MetA-01	Silver (Ag)	Column A 2	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038529-02	105L-MetA-02	Silver (Ag)	Column C 1/ 2 6	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038529-03	105L-MetA-03	Silver (Ag)	Column B 10	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/28/2017

Reviewed: (b) (6)
 Date: 10/4/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17038529-04	105L-MetA-04	Silver (Ag)	Column A 1/ 2 13	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038529-05	105L-MetA-05	Silver (Ag)	Column C 13	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038529-06	105L-MetA-06	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/28/2017

Reviewed: (b) (6)
 Date: 10/4/2017

Disclaimer

Final reports cannot be reproduced, except in full, without written authorization from SanAir Technologies Laboratory, Inc. SanAir is not responsible for sample collection or interpretation made by others. This report does not constitute endorsement by AIHA/NVLAP and/or any other U.S. governmental Agencies; and may not be certified by every local, state or federal regulatory agencies. SanAir Technologies Laboratory, Inc only assures the precision and accuracy of the data it generates and assumes no responsibility for errors or biasing that occur during collection prior to SanAir's receipt of the the sample. SanAir's Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using wipe materials meeting ASTM-E1792. The MDL and RL may not be relevant or applicable for other forms of wipe materials. All quality control results are acceptable unless otherwise noted. All quality control results are acceptable unless otherwise noted. Results are not corrected for blanks

Lead Exposure Limits

Air

- 1.5 µg/m3 EPA National Ambient Air Quality Standard (Quality Time – Weight Average)
- 30 µg/m3 OSHA Action Level (8-hour time weighted average)
- 50 µg/m3 OSHA Permissible Exposure Limit (General Industry)
- 50 µg/m3 OSHA Permissible Exposure Limit

Dust

Non-Grant Funded Projects (Standard Clearance Applies):

- 40ug/ft2 HUD Clearance Level for Floors
- 250ug/ft2 HUD Clearance Level for Window Sills
- 400ug/ft2 HUD Clearance Level for Window

Grant Funded Clearance (OLHCHH; LBPHC; LHRD Grantees):

- 10ug/ft2 HUD Clearance Level for Floors
- 100ug/ft2 HUD Clearance Level for Window Sills and Window Troughs
- 40ug/ft2 HUD Clearance Level for Porch Floors

Water

- 15 ppb (µg/liter) EPA Maximum Containment Level

Paint

- 0.5% by weight HUD definition of lead based paint
- 1.0 mg/cm2
- 5000 ppm

Soil

- 400 ppm HUD-Play areas and high-contact areas for children

TCLP EPA Limits

5.0 mg/L Silver (Ag)	100 mg/L Barium (Ba)	5.0 mg/L Chromium (Cr)	5.0 mg/L Lead (Pb)
5.0 mg/L Arsenic (As)	1.0 mg/L Cadmium (Cd)	0.2 mg/L Mercury (Hg)	1.0 mg/L Selenium (Se)

Goodfellow Federal Center Airborne Metals Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 105			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
105-MetA-01	1st Floor Column H 53	< 6.63	µg/m ³
105-MetA-02	1st Floor Column C 49	< 6.61	µg/m ³
105-MetA-03	1st Floor Column C 45	< 6.65	µg/m ³
105-MetA-04	1st Floor Column J 46	< 6.61	µg/m ³
105-MetA-05	1st Floor Column J 35	< 6.61	µg/m ³
105-MetA-06	1st Floor Column G 38	< 6.65	µg/m ³
105-MetA-07	1st Floor Column E 33	< 6.65	µg/m ³
105-MetA-08	1st Floor Column B 32	< 6.65	µg/m ³
105-MetA-09	1st Floor Column F 25	< 6.65	µg/m ³
105-MetA-10	1st Floor Column G 27	< 6.65	µg/m ³
105-MetA-11	1st Floor Column H 20	< 6.65	µg/m ³
105-MetA-12	1st Floor Column C 17	< 6.65	µg/m ³
105-MetA-13	1st Floor Column F 15	< 6.65	µg/m ³
105-MetA-14	1st Floor Column G 10	< 6.65	µg/m ³
105-MetA-15	1st Floor Column G 4	< 6.65	µg/m ³
105-MetA-16	1st Floor Column F 1.5	< 6.65	µg/m ³
105-MetA-17	1st Floor Column B 8	< 6.65	µg/m ³
105-MetA-18	1st Floor Column C 13	< 6.65	µg/m ³
105-MetA-19	1st Floor Column B 18	< 6.65	µg/m ³
105-MetA-20	1st Floor Column B 46	< 6.65	µg/m ³
105-MetA-21	Blank	< 2.5	µg/m ³
105-MetA-22	Blank	< 2.5	µg/m ³
105-MetA-23	2nd Floor Column G 51	< 6.26	µg/m ³
105-MetA-24	2nd Floor Column D 52	< 6.41	µg/m ³
105-MetA-25	2nd Floor Column E 42 1/2	< 6.53	µg/m ³
105-MetA-26	2nd Floor Column G 47	< 6.73	µg/m ³
105-MetA-27	2nd Floor Column G 3	< 6.82	µg/m ³
105-MetA-28	2nd Floor Column D 4	< 6.65	µg/m ³
105-MetA-29	2nd Floor Column B 12	< 6.65	µg/m ³
105-MetA-30	2nd Floor Column F 13 1/2	< 6.65	µg/m ³
105-MetA-31	2nd Floor Column G 15 1/2	< 6.65	µg/m ³
105-MetA-32	2nd Floor Column J 23	< 6.65	µg/m ³
105-MetA-33	2nd Floor Column E 21	< 6.65	µg/m ³
105-MetA-34	2nd Floor Column D 28	< 6.65	µg/m ³
105-MetA-35	2nd Floor Column D 33	< 6.65	µg/m ³
105-MetA-36	2nd Floor Column F 34	< 6.65	µg/m ³
105-MetA-37	2nd Floor Column J 39	< 6.65	µg/m ⁴
105-MetA-38	2nd Floor Column B 39	< 6.65	µg/m ⁵
105-MetA-39	Roof South Center Exterior	< 6.49	µg/m ⁶

< = below limit of detection

µg/m³ = micrograms per cubic meter

Goodfellow Federal Center Airborne Metals Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 105			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
105-MetA-40	Roof north Cooling Tower Exterior	< 7.33	$\mu\text{g}/\text{m}^3$
105-MetA-41	Blank	< 2.5	$\mu\text{g}/\text{m}^3$
105-MetA-42	Blank	< 2.5	$\mu\text{g}/\text{m}^3$

< = below limit of detection

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

SanAir Technologies Laboratory

Analysis Report

prepared for

Occu-Tec

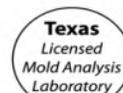
Report Date: 9/5/2017
Project Name: GFC Air Sampling -
105
Project #: 917004.002
SanAir ID#: 17033689



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

Occu-Tec
100 NW Business Park Lane
Riverside, MO 64150

September 5, 2017

SanAir ID # 17033689
Project Name: GFC Air Sampling - 105
Project Number: 917004.002

Dear Justin Arnold,

We at SanAir would like to thank you for the work you recently submitted. The 42 sample(s) were received on Monday, August 28, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 105-MetA-01, 105-MetA-02, 105-MetA-03, 105-MetA-04, 105-MetA-05, 105-MetA-06, 105-MetA-07, 105-MetA-08, 105-MetA-09, 105-MetA-10, 105-MetA-11, 105-MetA-12, 105-MetA-13, 105-MetA-14, 105-MetA-15, 105-MetA-16, 105-MetA-17, 105-MetA-18, 105-MetA-19, 105-MetA-20, 105-MetA-21, 105-MetA-22, 105-MetA-23, 105-MetA-24, 105-MetA-25, 105-MetA-26, 105-MetA-27, 105-MetA-28, 105-MetA-29, 105-MetA-30, 105-MetA-31, 105-MetA-32, 105-MetA-33, 105-MetA-34, 105-MetA-35, 105-MetA-36, 105-MetA-37, 105-MetA-38, 105-MetA-39, 105-MetA-40, 105-MetA-41, 105-MetA-42.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

(b) (6)



Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
42 sample(s) in Good condition



1551 Oakbridge Dr STE B
 Powhatan, VA 23139
 804.897.1177 / 888.895.1177
 Fax 804.897.0070
 sanair.com

**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 170 33689

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-994-3428
Address: 100 NW Business Park Lane	Project Name: GFC Air Sampling - 105	Phone #: 816-810-3276
City, St., Zip: Riverside, MO 64150	Date Collected: 8-22-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in: MO	Email: kheriford@occutec.com

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug m ³)	Total Concentration of Lead <input type="checkbox"/>	<input type="checkbox"/> ICP-total concentration of metals (please list metals): Do not include Mercury		
<input type="checkbox"/> Wipe (ug ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>			
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead <input type="checkbox"/>			
<input type="checkbox"/> Other:	TCLP for RCRA 8 Metals <input type="checkbox"/>			
Turn Around Time	Same Day <input type="checkbox"/>	1 Day <input type="checkbox"/>	2 days <input type="checkbox"/>	3 Days <input type="checkbox"/>
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
105-MetA-01	8-22-2017	H-53 SW Corner Mens Bath	2.35	11:08	1:56	394.8
105-MetA-02	8-22-2017	C-49 By Elevator	2.35	11:17	1:58	378.35
105-MetA-03	8-22-2017	C-45 By Exit	2.35	11:20	2:00	376
105-MetA-04	8-22-2017	J-46 Western Hallway	2.35	11:25	2:06	378.35
105-MetA-05	8-22-2017	J-35 Breezeway Entrance	2.35	11:30	2:11	378.35
105-MetA-06	8-22-2017	G-38 MailRoom	2.35	11:35	2:16	378.35
105-MetA-07	8-22-2017	E-33 Break Room	2.35	11:40	2:20	376
105-MetA-08	8-22-2017	B-32 East Hallway	2.35	11:43	2:23	376
105-MetA-09	8-22-2017	F-25 Cubical Break Room	2.35	11:46	2:26	376
105-MetA-10	8-22-2017	G-27 By Elevator	2.35	11:50	2:30	376
105-MetA-11	8-22-2017	H-20 By Haz. Ins.	2.35	11:53	2:33	376
105-MetA-12	8-22-2017	C-17 By Printers	2.35	11:55	2:35	376
105-MetA-13	8-22-2017	F-15 By Printers	2.35	11:58	2:38	376
105-MetA-14	8-22-2017	G-10 By AED	2.35	12:00	2:40	376

Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
			(b) (6)	AUG 28 2017	8:55 AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



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 Fax 804.897.0070
 sanair.com

**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 17033689

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-994-3428
Address: 100 NW Business Park Lane	Project Name: GFC Air Sampling - 105	Phone #: 816-810-3276
City, St., Zip: Riverside, MO 64150	Date Collected: 8-22-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in: MO	Email: kheriford@occutec.com

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug m ³)	Total Concentration of Lead <input type="checkbox"/>	<input type="checkbox"/> ICP-total concentration of metals (please list metals): Do not include Mercury		
<input type="checkbox"/> Wipe (ug ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>			
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead <input type="checkbox"/>			
<input type="checkbox"/> Other:	TCLP for RCRA 8 Metals <input type="checkbox"/>			
Turn Around Time	Same Day <input type="checkbox"/>	1 Day <input type="checkbox"/>	2 days <input type="checkbox"/>	3 Days <input type="checkbox"/>
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
105-MetA-15	8-22-2017	G-4 Purple Hallway	2.35	12:04	2:44	376
105-MetA-16	8-22-2017	F-1.5 South Entrance	2.35	12:07	2:47	376
105-MetA-17	8-22-2017	B-8 Hallway	2.35	12:12	2:50	376
105-MetA-18	8-22-2017	C-13 Break Room	2.35	12:15	2:55	376
105-MetA-19	8-22-2017	B-18 By Bath Room	2.35	12:20	3:00	376
105-MetA-20	8-22-2017	B-46 USDA Lab	2.35	12:26	3:06	376
105-MetA-21	8-22-2017	Blank	N/A	N/A	N/A	N/A
105-MetA-22	8-22-2017	Blank	N/A	N/A	N/A	N/A
105-MetA-23	8-23-2017	G-51 By Maintenance	2.35	7:49	10:39	399.5
105-MetA-24	8-23-2017	D-52 By Entry Doors	2.35	7:55	10:41	390.1
105-MetA-25	8-23-2017	E-42.5 Hallway Corridor	2.35	8:00	10:43	383.05
105-MetA-26	8-23-2017	G-47 Lab	2.35	8:07	10:45	371.3
105-MetA-27	8-23-2017	G-3 Hallway Corridor	2.35	8:15	10:51	366.6
105-MetA-28	8-23-2017	D-4 Cubical	2.35	8:18	10:58	376

Special Instructions	
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Relinquished by	Date	Time	Received by	Date	Time
			(b) (6)	AUG 28 2017	8:55AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



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**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9. 01/19/2017

SanAir ID Number
 17033689

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-994-3428
Address: 100 NW Business Park Lane	Project Name: GFC Air Sampling - 105	Phone #: 816-810-3276
City, St., Zip: Riverside, MO 64150	Date Collected: 8-22-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in: MO	Email: kheriford@occutec.com

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug m ³)	Total Concentration of Lead <input type="checkbox"/>	<input type="checkbox"/> ICP-total concentration of metals (please list metals): Do not include Mercury		
<input type="checkbox"/> Wipe (ug ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>			
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead <input checked="" type="checkbox"/>			
<input type="checkbox"/> Other:	TCLP for RCRA 8 Metals <input type="checkbox"/>			
Turn Around Time	Same Day <input type="checkbox"/>	1 Day <input type="checkbox"/>	2 days <input type="checkbox"/>	3 Days <input type="checkbox"/>
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
105-MetA-29	8-23-2017	B-12 By fans & Cubical	2.35	8:22	11:02	376
105-MetA-30	8-23-2017	F-13.5 By Exit Door	2.35	8:24	11:04	376
105-MetA-31	8-23-2017	G-15.5 Hallway	2.35	8:28	11:08	376
105-MetA-32	8-23-2017	J-23 End of Building	2.35	8:35	11:15	376
105-MetA-33	8-23-2017	E-21 Column	2.35	8:38	11:18	376
105-MetA-34	8-23-2017	D-28 Column	2.35	8:43	11:23	376
105-MetA-35	8-23-2017	D-33 By Printers	2.35	8:49	11:29	376
105-MetA-36	8-23-2017	F-34 Column	2.35	8:52	11:32	376
105-MetA-37	8-23-2017	J-39 Door Entry	2.35	8:55	11:35	376
105-MetA-38	8-23-2017	B-39	2.35	9:00	11:40	376
105-MetA-39	8-23-2017	Roof S. Center	2.35	9:07	11:51	385.4
105-MetA-40	8-23-2017	Roof N. Colling Tower	2.08	9:10	11:54	341.12
105-MetA-41	8-23-2017	Blank	N/A	N/A	N/A	N/A
105-MetA-42	8-23-2017	Blank	N/A	N/A	N/A	N/A

Special Instructions	
----------------------	--

Relinquished by	Date	Time	Received by	Date	Time
			(b) (6)	AUG 28 2017	8:55AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



SanAir Technologies Laboratory, Inc

1551 Oakbridge Dr, Suite B Powhatan, VA 23139
 804.897.1177 Toll Free 888.895.1177 Fax: 804.897.0070
www.sanair.com

SanAir ID Number
 17033689
 Final Report

email:iaq@sanair.com

Name: Occu-Tec
Address: 100 NW Business Park lane
 Riverside, MO 64150

Project Number: 917004.002
P.O. Number:
Project Name: GFC Air Sampling - 105

Collected Date: 8/22/2017
Received Date: 8/28/2017 8:55 AM
Report Date: 9/5/2017 9:45 AM
Analyst : C. Peterson

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033689-01	105-MetA-01	Silver (Ag)	H-53 SW Corner Mens Bath	<6.33	2.5
		Arsenic (As)		<6.33	2.5
		Barium (Ba)		<6.33	2.5
		Cadmium (Cd)		<6.33	2.5
		Chromium (Cr)		<6.33	2.5
		Lead (Pb)		<6.33	2.5
		Selenium (Se)		<6.33	2.5
17033689-02	105-MetA-02	Silver (Ag)	C-49 By Elevator	<6.61	2.5
		Arsenic (As)		<6.61	2.5
		Barium (Ba)		<6.61	2.5
		Cadmium (Cd)		<6.61	2.5
		Chromium (Cr)		<6.61	2.5
		Lead (Pb)		<6.61	2.5
		Selenium (Se)		<6.61	2.5
17033689-03	105-MetA-03	Silver (Ag)	C-45 By Exit	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 8/29/2017

Reviewed: (b) (6)
 Date: 9/5/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033689-04	105-MetA-04	Silver (Ag)	J-46 Western Hallway	<6.61	2.5
		Arsenic (As)		<6.61	2.5
		Barium (Ba)		<6.61	2.5
		Cadmium (Cd)		<6.61	2.5
		Chromium (Cr)		<6.61	2.5
		Lead (Pb)		<6.61	2.5
		Selenium (Se)		<6.61	2.5
17033689-05	105-MetA-05	Silver (Ag)	J-35 Breezeway Entrance	<6.61	2.5
		Arsenic (As)		<6.61	2.5
		Barium (Ba)		<6.61	2.5
		Cadmium (Cd)		<6.61	2.5
		Chromium (Cr)		<6.61	2.5
		Lead (Pb)		<6.61	2.5
		Selenium (Se)		<6.61	2.5
17033689-06	105-MetA-06	Silver (Ag)	G-38 Mailroom	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-07	105-MetA-07	Silver (Ag)	E-33 Break Room	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-08	105-MetA-08	Silver (Ag)	B-32 East Hallway	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 8/29/2017

Reviewed: (b) (6)
 Date: 9/5/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033689-09	105-MetA-09	Silver (Ag)	F-25 Cubical Break Room	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-10	105-MetA-10	Silver (Ag)	G-27 By Elevator	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-11	105-MetA-11	Silver (Ag)	H-20 By Haz. Ins.	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-12	105-MetA-12	Silver (Ag)	C-17 By Printers	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-13	105-MetA-13	Silver (Ag)	F-15 By Printers	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 8/29/2017

Reviewed: (b) (6)
 Date: 9/5/2017

Analytes Requested: RCRA 7 Metals

Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033689-14	105-MetA-14	Silver (Ag)	G-10 By AED	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-15	105-MetA-15	Silver (Ag)	G-4 Purple Hallway	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-16	105-MetA-16	Silver (Ag)	F-1.5 South Entrance	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-17	105-MetA-17	Silver (Ag)	B-8 Hallway	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-18	105-MetA-18	Silver (Ag)	C-13 Break Room	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
Date: 8/29/2017

Reviewed: (b) (6)
Date: 9/5/2017

Analytes Requested: RCRA 7 Metals

Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033689-19	105-MetA-19	Silver (Ag)	B-18 By Bath Room	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-20	105-MetA-20	Silver (Ag)	B-46 USDA Lab	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-21	105-MetA-21	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5
17033689-22	105-MetA-22	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5
17033689-23	105-MetA-23	Silver (Ag)	G-51 By Maintenance	<6.26	2.5
		Arsenic (As)		<6.26	2.5
		Barium (Ba)		<6.26	2.5
		Cadmium (Cd)		<6.26	2.5
		Chromium (Cr)		<6.26	2.5
		Lead (Pb)		<6.26	2.5
		Selenium (Se)		<6.26	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
Date: 8/29/2017

Reviewed: (b) (6)
Date: 9/5/2017

Analytes Requested: RCRA 7 Metals

Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033689-24	105-MetA-24	Silver (Ag)	D-52 By Entry Doors	<6.41	2.5
		Arsenic (As)		<6.41	2.5
		Barium (Ba)		<6.41	2.5
		Cadmium (Cd)		<6.41	2.5
		Chromium (Cr)		<6.41	2.5
		Lead (Pb)		<6.41	2.5
		Selenium (Se)		<6.41	2.5
17033689-25	105-MetA-25	Silver (Ag)	E-42.5 Hallway Corridor	<6.53	2.5
		Arsenic (As)		<6.53	2.5
		Barium (Ba)		<6.53	2.5
		Cadmium (Cd)		<6.53	2.5
		Chromium (Cr)		<6.53	2.5
		Lead (Pb)		<6.53	2.5
		Selenium (Se)		<6.53	2.5
17033689-26	105-MetA-26	Silver (Ag)	G-47 Lab	<6.73	2.5
		Arsenic (As)		<6.73	2.5
		Barium (Ba)		<6.73	2.5
		Cadmium (Cd)		<6.73	2.5
		Chromium (Cr)		<6.73	2.5
		Lead (Pb)		<6.73	2.5
		Selenium (Se)		<6.73	2.5
17033689-27	105-MetA-27	Silver (Ag)	G-3 Hallway Corridor	<6.82	2.5
		Arsenic (As)		<6.82	2.5
		Barium (Ba)		<6.82	2.5
		Cadmium (Cd)		<6.82	2.5
		Chromium (Cr)		<6.82	2.5
		Lead (Pb)		<6.82	2.5
		Selenium (Se)		<6.82	2.5
17033689-28	105-MetA-28	Silver (Ag)	D-4 Cubical	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
Date: 8/29/2017

Reviewed: (b) (6)
Date: 9/5/2017

Analytes Requested: RCRA 7 Metals

Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033689-29	105-MetA-29	Silver (Ag)	B-12 By Fans & Cubical	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-30	105-MetA-30	Silver (Ag)	F-13.5 By Exit Door	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-31	105-MetA-31	Silver (Ag)	G-15.5 Hallway	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-32	105-MetA-32	Silver (Ag)	J-23 End Of Building	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-33	105-MetA-33	Silver (Ag)	E-21 Column	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

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Signature:

(b) (6)

Date: 8/29/2017

Reviewed:

(b) (6)

Date:

9/5/2017

Analytes Requested: RCRA 7 Metals

Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033689-34	105-MetA-34	Silver (Ag)	D-28 Column	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-35	105-MetA-35	Silver (Ag)	D-33 By Printers	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-36	105-MetA-36	Silver (Ag)	F-34 Column	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-37	105-MetA-37	Silver (Ag)	J-39 Door Entry	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033689-38	105-MetA-38	Silver (Ag)	B-39	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

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Signature: (b) (6)
Date: 8/29/2017

Reviewed: (b) (6)
Date: 9/5/2017

Analytes Requested: RCRA 7 Metals

Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033689-39	105-MetA-39	Silver (Ag)	Roof S. Center	<6.49	2.5
		Arsenic (As)		<6.49	2.5
		Barium (Ba)		<6.49	2.5
		Cadmium (Cd)		<6.49	2.5
		Chromium (Cr)		<6.49	2.5
		Lead (Pb)		<6.49	2.5
		Selenium (Se)		<6.49	2.5
17033689-40	105-MetA-40	Silver (Ag)	Roof N. Colling Tower	<7.33	2.5
		Arsenic (As)		<7.33	2.5
		Barium (Ba)		<7.33	2.5
		Cadmium (Cd)		<7.33	2.5
		Chromium (Cr)		<7.33	2.5
		Lead (Pb)		<7.33	2.5
		Selenium (Se)		<7.33	2.5
17033689-41	105-MetA-41	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5
17033689-42	105-MetA-42	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

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Signature: (b) (6)

Date: 8/29/2017

Reviewed: (b) (6)

Date: 9/5/2017

Disclaimer

- Results relate only to the items tested
- Results are not corrected for blanks
- All quality control results are acceptable unless otherwise noted
- SanAir Technologies Laboratory, Inc is not responsible for sample collection or interpretation made by others
- This report does not constitute endorsement by AIHA/NVLAP and/or any other U.S. governmental Agencies; and may not be certified by every local, state or federal regulatory
- SanAir Technologies Laboratory, Inc only assures the precision and accuracy of the data it generates and assumes no responsibility for errors or biasing that occur during collection prior
- SanAir's Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using wipe materials meeting ASTM-E1792. The MDL and RL may not be relevant or applicable for

Lead Exposure Limits

Air

1.5 µg/m³ EPA National Ambient Air Quality Standard (Quality Time – Weight Average)

30 µg/m³ OSHA Action Level (8-hour time weighted average)

50 µg/m³ OSHA Permissible Exposure Limit (General Industry)

50 µg/m³ OSHA Permissible Exposure Limit (Construction)

Dust

10 µg/ft² HUD Clearance Level for Floors

100 µg/ft² HUD Clearance Level for Interior Window Sills

100 µg/ft² HUD Clearance Level for Window Troughs

40 µg/ft² HUD Clearance Level for Porch Floors

Water

15 ppb (µg/liter) EPA Maximum Containment Level

Paint

0.5% by weight HUD definition of lead based paint

1.0 mg/cm²

5000 ppm

Soil

400 ppm HUD-Play areas and high-contact areas for children

TCLP EPA Limits:

Silver (Ag): 5.0 mg/L

Arsenic (As): 5.0 mg/L

Barium (Ba): 100 mg/L

Cadmium (Cd): 1.0 mg/L

Chromium (Cr): 5.0 mg/L

Mercury (Hg): 0.2 mg/L

Lead (Pb): 5.0 mg/L

Selenium (Se): 1.0 mg/L

Goodfellow Federal Center Airborne Metals Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 106			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
106-MetA-01	Guard Shack West Side	< 6.65	$\mu\text{g}/\text{m}^3$
106-MetA-02	Guard Shack East Side	< 8.09	$\mu\text{g}/\text{m}^3$
106-MetA-03	Blank	< 2.5	$\mu\text{g}/\text{m}^3$

< = below limit of detection

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

SanAir Technologies Laboratory

Analysis Report

prepared for

Occu-Tec

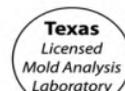
Report Date: 10/4/2017
Project Name: IAQ Sampling
Building 106
Project #: 917004.002
SanAir ID#: 17038533



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

Occu-Tec
100 NW Business Park Lane
Riverside, MO 64150

October 4, 2017

SanAir ID # 17038533
Project Name: IAQ Sampling Building 106
Project Number: 917004.002

Dear Justin Arnold,

We at SanAir would like to thank you for the work you recently submitted. The 3 sample(s) were received on Wednesday, September 27, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 106-MetA-01, 106-MetA-02, 106-MetA-03.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

(b) (6)

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
3 sample(s) in Good condition



1551 Oakbridge Dr STE B
 Powhatan, VA 23139
 804.897.1177 / 888.895.1177
 Fax 804.897.0070
 sanair.com

**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 17038533

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-810-3276
Address: 100 NW Business Park Lane	Project Name: IAQ Sampling Building 106	Phone #: 816-994-3428
City, St., Zip: Riverside, MO 64150	Date Collected: 09-19-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in: Missouri	Email:

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead	ICP-total concentration of metals (please list metals): Do Not Include Mercury
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>	
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead <input type="checkbox"/>	
Other:	TCLP for RCRA 8 Metals	

Turn Around Time	Same Day	1 Day	2 days	3 Days
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
106-MetA-01	9-19-2017	Gaurd Shack West Side	2.35 L	14:20	17:00	376 L
106-MetA-02	9-19-2017	Gaurd Shack East Side	1.96 L	14:22	17:02	308.8 L
106-MetA-03	9-19-2017	Blank	NA	NA	NA	NA

Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
(b) (6)	9-26-17	2:00 pm	(b) (6)	SEP 27 2017	10:55 AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



SanAir Technologies Laboratory, Inc

1551 Oakbridge Dr, Suite B Powhatan, VA 23139
 804.897.1177 Toll Free 888.895.1177 Fax: 804.897.0070
www.sanair.com

email:iaq@sanair.com

SanAir ID Number
 17038533
 Final Report

Name: Occu-Tec
Address: 100 NW Business Park lane
 Riverside, MO 64150

Project Number: 917004.002
P.O. Number:
Project Name: IAQ Sampling Building 106

Collected Date: 9/19/2017
Received Date: 9/27/2017 10:55 AM
Report Date: 10/4/2017 9:55 AM
Analyst : C. Peterson

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17038533-01	106-MetA-01	Silver (Ag)	Gaurd Shack West Side	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17038533-02	106-MetA-02	Silver (Ag)	Gaurd Shack East Side	<8.09	2.5
		Arsenic (As)		<8.09	2.5
		Barium (Ba)		<8.09	2.5
		Cadmium (Cd)		<8.09	2.5
		Chromium (Cr)		<8.09	2.5
		Lead (Pb)		<8.09	2.5
		Selenium (Se)		<8.09	2.5
17038533-03	106-MetA-03	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 9/28/2017

Reviewed: (b) (6)
 Date: 10/4/2017

Disclaimer

Final reports cannot be reproduced, except in full, without written authorization from SanAir Technologies Laboratory, Inc. SanAir is not responsible for sample collection or interpretation made by others. This report does not constitute endorsement by AIHA/NVLAP and/or any other U.S. governmental Agencies; and may not be certified by every local, state or federal regulatory agencies. SanAir Technologies Laboratory, Inc only assures the precision and accuracy of the data it generates and assumes no responsibility for errors or biasing that occur during collection prior to SanAir's receipt of the the sample. SanAir's Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using wipe materials meeting ASTM-E1792. The MDL and RL may not be relevant or applicable for other forms of wipe materials. All quality control results are acceptable unless otherwise noted. All quality control results are acceptable unless otherwise noted. Results are not corrected for blanks

Lead Exposure Limits

Air

1.5 µg/m ³	EPA National Ambient Air Quality Standard (Quality Time – Weight Average)
30 µg/m ³	OSHA Action Level (8-hour time weighted average)
50 µg/m ³	OSHA Permissible Exposure Limit (General Industry)
50 µg/m ³	OSHA Permissible Exposure Limit

Dust

Non-Grant Funded Projects (Standard Clearance Applies):

40ug/ft ²	HUD Clearance Level for Floors
250ug/ft ²	HUD Clearance Level for Window Sills
400ug/ft ²	HUD Clearance Level for Window

Grant Funded Clearance (OLHCHH; LBPHC; LHRD Grantees):

10ug/ft ²	HUD Clearance Level for Floors
100ug/ft ²	HUD Clearance Level for Window Sills and Window Troughs
40ug/ft ²	HUD Clearance Level for Porch Floors

Water

15 ppb (µg/liter)	EPA Maximum Containment Level
-------------------	-------------------------------

Paint

0.5% by weight	HUD definition of lead based paint
1.0 mg/cm ²	
5000 ppm	

Soil

400 ppm	HUD-Play areas and high-contact areas for children
---------	--

TCLP EPA Limits

5.0 mg/L Silver (Ag)	100 mg/L Barium (Ba)	5.0 mg/L Chromium (Cr)	5.0 mg/L Lead (Pb)
5.0 mg/L Arsenic (As)	1.0 mg/L Cadmium (Cd)	0.2 mg/L Mercury (Hg)	1.0 mg/L Selenium (Se)

Goodfellow Federal Center Airborne Metals Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 107			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
107-MetA-01	1st Floor Column C 4	< 6.65	$\mu\text{g}/\text{m}^3$
107-MetA-02	1st Floor Column A 7	< 6.65	$\mu\text{g}/\text{m}^3$
107-MetA-03	1st Floor Column A 11	< 6.65	$\mu\text{g}/\text{m}^3$
107-MetA-04	1st Floor Column F 12	< 6.65	$\mu\text{g}/\text{m}^3$
107-MetA-05	2nd Floor Column B 13	< 6.65	$\mu\text{g}/\text{m}^3$
107-MetA-06	2nd Floor Column C 11	< 6.65	$\mu\text{g}/\text{m}^3$
107-MetA-07	2nd Floor Column A 7	< 6.65	$\mu\text{g}/\text{m}^3$
107-MetA-08	2nd Floor Column D 2	< 6.65	$\mu\text{g}/\text{m}^3$
107-MetA-09	Blank	< 2.5	$\mu\text{g}/\text{m}^3$

< = below limit of detection

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

SanAir Technologies Laboratory

Analysis Report

prepared for

Occu-Tec

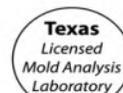
Report Date: 9/6/2017
Project Name: GFC Air Sampling -
107
Project #: 917004.002
SanAir ID#: 17033893



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

Occu-Tec
100 NW Business Park Lane
Riverside, MO 64150

September 6, 2017

SanAir ID # 17033893
Project Name: GFC Air Sampling - 107
Project Number: 917004.002

Dear Justin Arnold,

We at SanAir would like to thank you for the work you recently submitted. The 9 sample(s) were received on Tuesday, August 29, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 107-MetA-01, 107-MetA-02, 107-MetA-03, 107-MetA-04, 107-MetA-05, 107-MetA-06, 107-MetA-07, 107-MetA-08, 107-MetA-09.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

(b) (6)

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
9 sample(s) in Good condition



1551 Oakbridge Dr STE B
 Powhatan, VA 23139
 804.897.1177 / 888.895.1177
 Fax 804.897.0070
 sanair.com

**Metals & Lead
 Chain of Custody**
 Form 70, Revision 9, 01/19/2017

SanAir ID Number
 17033893

Company: OCCU-TEC	Project #: 917004.002	Phone #: 816-994-3428
Address: 100 NW Business Park Lane	Project Name: GFC Air Sampling - 107	Phone #: 816-810-3276
City, St., Zip: Riverside, MO 64150	Date Collected: 8-25-2017	Fax #: 816-994-3478
Samples Collected By: Justin Arnold	P.O. Number:	Email: jarnold@occutec.com
Account #:	U.S. State Collected in: MO	Email: kheriford@occutec.com

Matrix Types

Metals Analysis Types

<input checked="" type="checkbox"/> Air (ug/m ³)	Total Concentration of Lead <input type="checkbox"/>	<input type="checkbox"/> ICP-total concentration of metals (please list metals): Do not include Mercury		
<input type="checkbox"/> Wipe (ug/ft ²)	Total Concentration of RCRA 8 Metals <input checked="" type="checkbox"/>			
<input type="checkbox"/> Paint <input type="checkbox"/> Soil <input type="checkbox"/> Bulk (ug/g or ppm)	TCLP for Lead <input type="checkbox"/>			
<input type="checkbox"/> Other:	TCLP for RCRA 8 Metals <input type="checkbox"/>			
Turn Around Time	Same Day <input type="checkbox"/>	1 Day <input type="checkbox"/>	2 days <input type="checkbox"/>	3 Days <input type="checkbox"/>
	<input checked="" type="checkbox"/> Standard (5 day)	<input type="checkbox"/> Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
107-MetA-01	08-25-2017	1st Floor Column C-4	2.35	7:07	9:47	376
107-MetA-02	08-25-2017	1st Floor Column	2.35	7:10	9:50	376
107-MetA-03	08-25-2017	1st Floor Column	2.35	7:13	9:53	376
107-MetA-04	08-25-2017	1st Floor Column	2.35	7:17	9:57	376
107-MetA-05	08-25-2017	2nd Floor Column	2.35	7:21	10:01	376
107-MetA-06	08-25-2017	2nd Floor Column	2.35	7:24	10:04	376
107-MetA-07	08-25-2017	2nd Floor Column	2.35	7:26	10:06	376
107-MetA-08	08-25-2017	2nd Floor Column	2.35	7:29	10:09	376
107-MetA-09	08-25-2017	Blank	NA	NA	NA	NA

Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
(b) (6)			(b) (6)	AUG 29 2017	10:10 AM

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.



SanAir Technologies Laboratory, Inc

1551 Oakbridge Dr, Suite B Powhatan, VA 23139
 804.897.1177 Toll Free 888.895.1177 Fax: 804.897.0070
www.sanair.com

SanAir ID Number
 17033893
 Final Report

email:iaq@sanair.com

Name: Occu-Tec
Address: 100 NW Business Park lane
 Riverside, MO 64150

Project Number: 917004.002
P.O. Number:
Project Name: GFC Air Sampling - 107

Collected Date: 8/25/2017
Received Date: 8/29/2017 10:10 AM
Report Date: 9/6/2017 11:20 AM
Analyst : C. Peterson

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033893-01	107-MetA-01	Silver (Ag)	1st Floor Column C-4	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033893-02	107-MetA-02	Silver (Ag)	1st Floor Column	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033893-03	107-MetA-03	Silver (Ag)	1st Floor Column	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 8/30/2017

Reviewed: (b) (6)
 Date: 9/6/2017

Analytes Requested: RCRA 7 Metals
 Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033893-04	107-MetA-04	Silver (Ag)	1st Floor Column	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033893-05	107-MetA-05	Silver (Ag)	2nd Floor Column	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033893-06	107-MetA-06	Silver (Ag)	2nd Floor Column	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033893-07	107-MetA-07	Silver (Ag)	2nd Floor Column	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5
17033893-08	107-MetA-08	Silver (Ag)	2nd Floor Column	<6.65	2.5
		Arsenic (As)		<6.65	2.5
		Barium (Ba)		<6.65	2.5
		Cadmium (Cd)		<6.65	2.5
		Chromium (Cr)		<6.65	2.5
		Lead (Pb)		<6.65	2.5
		Selenium (Se)		<6.65	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 8/29/2017

Reviewed: (b) (6)
 Date: 9/6/2017

Analytes Requested: RCRA 7 Metals
Test Method: EPA M3050B/6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/M ³	MRL ug/Sample
17033893-09	107-MetA-09	Silver (Ag)	Blank	<2.5	2.5
		Arsenic (As)		<2.5	2.5
		Barium (Ba)		<2.5	2.5
		Cadmium (Cd)		<2.5	2.5
		Chromium (Cr)		<2.5	2.5
		Lead (Pb)		<2.5	2.5
		Selenium (Se)		<2.5	2.5

MRL: Method Reporting Limit based on 2.5ug/filter

Certification

SanAir Technologies Laboratory, Inc participates in the certification for environmental Lead as administered by AIHA-ELLAP (Lab Id 162952) and the State of New York-ELAP (Lab Id 11983, and has met the EPA's NLLAP program standards.

Signature: (b) (6)
 Date: 8/30/2017

Reviewed: (b) (6)
 Date: 9/6/2017

Disclaimer

- Results relate only to the items tested
- Results are not corrected for blanks
- All quality control results are acceptable unless otherwise noted
- SanAir Technologies Laboratory, Inc is not responsible for sample collection or interpretation made by others
- This report does not constitute endorsement by AIHA/NVLAP and/or any other U.S. governmental Agencies; and may not be certified by every local, state or federal regulatory
- SanAir Technologies Laboratory, Inc only assures the precision and accuracy of the data it generates and assumes no responsibility for errors or biasing that occur during collection prior
- SanAir's Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using wipe materials meeting ASTM-E1792. The MDL and RL may not be relevant or applicable for

Lead Exposure Limits

Air

- 1.5 µg/m3 EPA National Ambient Air Quality Standard (Quality Time – Weight Average)
- 30 µg/m3 OSHA Action Level (8-hour time weighted average)
- 50 µg/m3 OSHA Permissible Exposure Limit (General Industry)
- 50 µg/m3 OSHA Permissible Exposure Limit (Construction)

Dust

- 10 µg/ft2 HUD Clearance Level for Floors
- 100 µg/ft2 HUD Clearance Level for Interior Window Sills
- 100 µg/ft2 HUD Clearance Level for Window Troughs
- 40 µg/ft2 HUD Clearance Level for Porch Floors

Water

15 ppb ($\mu\text{g/liter}$) EPA Maximum Containment Level

Paint

0.5% by weight HUD definition of lead based paint

1.0 mg/cm^2

5000 ppm

Soil

400 ppm HUD-Play areas and high-contact areas for children

TCLP EPA Limits:

Silver (Ag): 5.0 mg/L

Arsenic (As): 5.0 mg/L

Barium (Ba): 100 mg/L

Cadmium (Cd): 1.0 mg/L

Chromium (Cr): 5.0 mg/L

Mercury (Hg): 0.2 mg/L

Lead (Pb): 5.0 mg/L

Selenium (Se): 1.0 mg/L

Goodfellow Federal Center Airborne Metals Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 110			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
110-MetA-01	1st Floor Column L 12	< 6.57	µg/m ³
110-MetA-02	1st Floor Column M 15	< 6.61	µg/m ³
110-MetA-03	1st Floor Column E 15	< 6.65	µg/m ³
110-MetA-04	First Floor Column D 13	< 6.65	µg/m ³
110-MetA-05	First Floor Column A 13	< 6.65	µg/m ³
110-MetA-06	1st Floor Column D 9	< 6.65	µg/m ³
110-MetA-07	1st Floor Column F 10	< 6.65	µg/m ³
110-MetA-08	1st Floor Column E 7	< 6.65	µg/m ³
110-MetA-09	1st Floor Column C 3	< 6.65	µg/m ³
110-MetA-10	1st Floor Column D 3	< 6.65	µg/m ³
110-MetA-11	1st Floor Column F 4	< 6.65	µg/m ³
110-MetA-12	1st Floor Column J 3	< 6.65	µg/m ³
110-MetA-13	1st Floor Column E 2	< 6.65	µg/m ³
110-MetA-14	1st Floor Column G 3	< 6.65	µg/m ³
110-MetA-15	1st Floor Column N 14	< 6.65	µg/m ³
110-MetA-16	2nd Floor Column L 12	< 6.65	µg/m ³
110-MetA-17	2nd Floor Column N 15	< 6.65	µg/m ³
110-MetA-18	2nd Floor Column H 14	< 6.65	µg/m ³
110-MetA-19	2nd Floor Column G 14	< 6.65	µg/m ³
110-MetA-20	2nd Floor Column D 15	< 6.65	µg/m ³
110-MetA-21	2nd Floor Column A 12	< 6.65	µg/m ³
110-MetA-22	2nd Floor Column E 11	< 6.65	µg/m ³
110-MetA-23	2nd Floor Column E 14	< 7.97	µg/m ³
110-MetA-24	2nd Floor Column D 8	< 6.65	µg/m ³
110-MetA-25	2nd Floor Column F 5	< 6.65	µg/m ³
110-MetA-26	2nd Floor Column E 5	< 6.65	µg/m ³
110-MetA-27	2nd Floor Column F 2	< 6.65	µg/m ³
110-MetA-28	2nd Floor Column H 3	< 6.65	µg/m ³
110-MetA-29	2nd Floor Column L 3	< 6.65	µg/m ⁴
110-MetA-30	2nd Floor Column F 8	< 6.65	µg/m ⁵
110-MetA-31	SW End of Roof	< 6.65	µg/m ⁶
110-MetA-32	NE End of Roof	< 6.65	µg/m ⁷
110-MetA-33	Blank	< 2.5	µg/m ⁸
110-MetA-34	Blank	< 2.5	µg/m ⁹
110-MetA-35	Blank	< 2.5	µg/m ¹⁰

< = below limit of detection

µg/m³ = micrograms per cubic meter

Goodfellow Federal Center Airborne Metals Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 115			
Total Concentration of RCRA 8 Metals (Excluding Mercury)			
Sample #	Location	Highest Result	Unit of Measure
115-MetA-01	Office Area	< 6.65	$\mu\text{g}/\text{m}^3$
115-MetA-02	S. Center by Ellipticals	< 6.65	$\mu\text{g}/\text{m}^3$
115-MetA-03	Aerobics Area	< 6.65	$\mu\text{g}/\text{m}^3$
115-MetA-04	Education Classroom N	< 6.65	$\mu\text{g}/\text{m}^3$
115-MetA-05	Blank	< 2.5	$\mu\text{g}/\text{m}^3$

< = below limit of detection

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

Appendix

A

Qualifications and Licenses



STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Justin E. 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: **6/11/2016**
Expiration Date: **6/11/2018**
License Number: **120611-300003622**



(b) (6)

Peter Lyskowski
Acting Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

