

January 30, 2019

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
Building – #108B
4300 Goodfellow Boulevard
St. Louis, Missouri 63120
OCCU-TEC Project No. 918004**

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 Center, in St. Louis, Missouri. OCCU-TEC understands that the purpose of the investigation was to provide 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.

On December 21, 2018, 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. Sampling was conducted on Building #108B.

The proposed sampling scheme, the numbers of samples, sample distribution and general methodology was developed based on previous investigation methodology and in coordination with the GSA. Sample 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 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 300 liters. Air samples were submitted under chain-of-custody to Scientific Analytical Institute, Inc. (SAI), for independent analysis of RCRA metals in accordance with NIOSH Method 7300. SAI is accredited by the American Industrial Hygiene Association (AIHA) utilizing the Industrial Hygiene Proficiency Analytical Testing (IHPAT) program. SAI's IHPAT Laboratory ID is 173190.

Results of the air sampling are summarized in the table below by identifying the range of results for Building #108B 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 ($\mu\text{g}/\text{m}^3$)	Highest Concentration ($\mu\text{g}/\text{m}^3$)
Silver (Ag)	<0.68	<0.68
Arsenic (As)	<0.68	<0.68
Barium (Ba)	<0.10	<0.10
Cadmium (Cd)	<0.068	<0.068
Total Chromium (Cr) *	1.4	1.4
Lead (Pb)	<0.35	<0.35
Selenium (Se)	<0.68	<0.68

* The laboratory reported trace amounts of total chromium above the laboratory detection limit on many samples, including field blanks. According to the lab, low levels of Chromium can be found as a contaminant in varying levels on MCE filters for different manufacturers and lots.

Results of the air samples collected indicate that **all** the air samples collected from Building #108B contained concentrations of RCRA metals below the laboratory’s method reporting limit and the OSHA Permissible Exposure Limit (PEL) with the exception of total Chromium. As previously noted, the elevated total chromium results were likely due to contaminated MCE filter media. Sample locations and the corresponding results are summarized in the laboratory analytical results that are included in Appendix A. The air sampling professional’s Missouri Lead license is included in Appendix B.

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)

Kevin Heriford
Project Manager (QA/QC)

Appendices:

- A: Laboratory Analytical Results and Chain of Custody Documentation
- B: Qualifications and Licenses

Appendix A

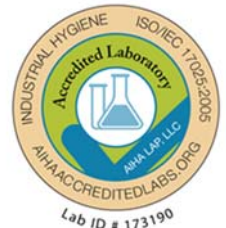
Laboratory Analytical Report and Chain of Custody Documentation





Airborne Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH Method 7300



Client:	Occu-Tec, Inc. 100 NW Business Park Ln. Riverside, MO 64150	Attn: Kevin Heriford	Lab Order ID: 51834412	
			Date Received: 12/27/2018	
Project:	GFC - Building 108B		Date Reported: 01/04/2019	
			Page: 1 of 1	

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m ³)
Lab Sample ID	Lab Notes					
108B-MetA-1	Inside 108B	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.51	1.4
			Pb	0.13	< 0.13	< 0.35
			Se	0.25	< 0.25	< 0.68
51834412IPA_1						
108B-MetA-2	Blank	-	Ag	0.25	< 0.25	--
			As	0.25	< 0.25	--
			Ba	0.038	< 0.038	--
			Cd	0.025	< 0.025	--
			Cr	0.25	0.45	--
			Pb	0.13	< 0.13	--
			Se	0.25	< 0.25	--
51834412IPA_2						

Melissa Ferrell (2)

Analyst

(b) (6)

Lab Director

This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by AIHA or any other agency of the U.S. government. Scientific Analytical Institute participates in the AIHA IHPAT program. IHPAT Laboratory ID: 173190. Unless otherwise noted blank sample correction was not performed on analytical results. MDLs are available upon request. Reporting limits stated above.



Scientific Analytical Institute
 4604 Dundas Dr. Greensboro, NC 27407
 Phone: 336.292.3888 Fax: 336.292.3313
 www.sailab.com lab@sailab.com

Lab Use Only
 Lab Order ID: 51834412
 Client Code: _____

Contact Information	
Company Name:	OCCU-TEC, Inc.
Address:	100 NW Business Park Lane Riverside, MO 64150
Contact:	Kevin Heriford
Phone ☐:	816-825-0628
Fax ☐:	816-994-3465
Email ☐:	kheriford@occutec.com
PO Number:	918004
Project Name/Number:	GFC - Building 109B

Billing/Invoice Information	
Company:	OCCU-TEC, Inc.
Address:	100 NW Business Park Ln Riverside, MO 64150
Contact:	Accounts Payable
Phone ☐:	
Fax ☐:	
Email ☐:	ap@occutec.com

Lead Test Types		
Paint Chips by Flame AA (PBP) ☐	Soil by Flame AA (PBS) ☐	Other ☑
Wipe by Flame AA (PBW) ☐	Air by Flame AA (PBA) ☐	KCRA 8 w/o Hg

Turn Around Times			
3 Hours	<input type="checkbox"/>	72 Hours	<input type="checkbox"/>
6 Hours	<input type="checkbox"/>	96 Hours	<input type="checkbox"/>
12 Hours	<input type="checkbox"/>	120 Hours	<input checked="" type="checkbox"/>
24 Hours	<input type="checkbox"/>	144+ Hours	<input type="checkbox"/>
48 Hours	<input type="checkbox"/>		

Sample ID #	Description/Location	Volume/Area	Comments
109B-Meta-1	Inside 109B	367.5	
109B-Meta-2	Blank	367.5	

Accepted
 Rejected

Total Number of Samples _____

Relinquished by (b) (6)	Date/Time 12/26 1600	Received by (b) (6)	Date/Time 12-27-18 9100
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Appendix B

Qualifications and Licenses



**STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES**

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Austin G. O'Byrne

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: **12/10/2018**
Expiration Date: **12/10/2020**
License Number: **181210-300005671**



(b) (6)

Randall W. Williams, MD, FACOG
Director
Department of Health and Senior Services

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