OCCU-TEC
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February 15, 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 – #103
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 January 22, 2019, 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 #103.

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 #103 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/m³)	Highest Concentration (µg/m³)
Silver (Ag)	<0.65	<0.68
Arsenic (As)	<0.65	<0.68
Barium (Ba)	<0.099	0.41
Cadmium (Cd)	<0.065	<0.068
Total Chromium (Cr) *	<0.65	2.00
Lead (Pb)	<0.34	0.57
Selenium (Se)	<0.65	0.87

* 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 the air samples collected from Building #103 contained concentrations of RCRA metals below the laboratory's method reporting limit and the OSHA Permissible Exposure Limit (PEL) with the exception of Barium, total Chromium, Lead, and Selenium. 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 in 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.**	**Attn:**	**Kevin Heriford**	**Lab Order ID:**	**71902380**
	100 NW Business Park Ln.			**Date Received:**	**01/29/2019**
	Riverside, MO 64150			**Date Reported:**	**02/05/2019**
Project:	**GFC - 103**			**Page:**	**1 of 9**

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m^3)
103-MetA18-01	LL G2	382.2	Ag	0.25	< 0.25	< 0.65
			As	0.25	< 0.25	< 0.65
			Ba	0.038	< 0.038	< 0.099
			Cd	0.025	< 0.025	< 0.065
			Cr	0.25	< 0.25	< 0.65
			Pb	0.13	< 0.13	< 0.34
71902380IPA_1			Se	0.25	< 0.25	< 0.65
103-MetA18-02	LL F4-E4	377.3	Ag	0.25	< 0.25	< 0.66
			As	0.25	< 0.25	< 0.66
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.066
			Cr	0.25	< 0.25	< 0.66
			Pb	0.13	< 0.13	< 0.34
71902380IPA_2			Se	0.25	< 0.25	< 0.66
103-MetA18-03	LL C5	377.3	Ag	0.25	< 0.25	< 0.66
			As	0.25	< 0.25	< 0.66
			Ba	0.038	0.046	0.12
			Cd	0.025	< 0.025	< 0.066
			Cr	0.25	0.32	0.85
			Pb	0.13	< 0.13	< 0.34
71902380IPA_3			Se	0.25	< 0.25	< 0.66

Melissa Ferrell

Analyst

(b) (6) [redacted]

Lab Director

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NIOSH Method 7300

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Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m^3)
103-MetA18-04	LL B8	372.4	Ag	0.25	< 0.25	< 0.67
			As	0.25	< 0.25	< 0.67
			Ba	0.038	0.15	0.40
			Cd	0.025	< 0.025	< 0.067
			Cr	0.25	0.51	1.4
			Pb	0.13	< 0.13	< 0.35
71902380IPA_4			Se	0.25	< 0.25	< 0.67
103-MetA18-05	LL B13	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	0.40	1.1
			Pb	0.13	< 0.13	< 0.35
71902380IPA_5			Se	0.25	< 0.25	< 0.68
103-MetA18-06	LL H18	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	0.27	0.73
			Pb	0.13	< 0.13	< 0.35
71902380IPA_6			Se	0.25	< 0.25	< 0.68

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NIOSH Method 7300

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Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m^3)
103-MetA18-07	LL H30	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	< 0.25	< 0.68
			Pb	0.13	< 0.13	< 0.35
71902380IPA_7			Se	0.25	< 0.25	< 0.68
103-MetA18-08	LL G23	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	0.15	0.41
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.46	1.3
			Pb	0.13	< 0.13	< 0.35
71902380IPA_8			Se	0.25	< 0.25	< 0.68
103-MetA18-09	UL G29	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	0.33	0.90
			Pb	0.13	< 0.13	< 0.35
71902380IPA_9			Se	0.25	< 0.25	< 0.68

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NIOSH Method 7300

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Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m^3)
103-MetA18-10	UL G25	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	< 0.25	< 0.68
			Pb	0.13	< 0.13	< 0.35
71902380IPA_10			Se	0.25	< 0.25	< 0.68
103-MetA18-11	UL F20	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	0.55	1.5
			Pb	0.13	< 0.13	< 0.35
71902380IPA_11			Se	0.25	< 0.25	< 0.68
103-MetA18-12	UL F17	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	< 0.25	< 0.68
			Pb	0.13	< 0.13	< 0.35
71902380IPA_12			Se	0.25	< 0.25	< 0.68

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Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m^3)
103-MetA18-13	UL C13	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	< 0.25	< 0.68
			Pb	0.13	< 0.13	< 0.35
71902380IPA_13			Se	0.25	< 0.25	< 0.68
103-MetA18-14	UL D8	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	0.40	1.1
			Pb	0.13	< 0.13	< 0.35
71902380IPA_14			Se	0.25	< 0.25	< 0.68
103-MetA18-15	UL G6	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	0.61	1.7
			Pb	0.13	< 0.13	< 0.35
71902380IPA_15			Se	0.25	< 0.25	< 0.68

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Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m^3)
103-MetA18-16	UL B2	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	0.39	1.1
			Pb	0.13	< 0.13	< 0.35
71902380IPA_16			Se	0.25	< 0.25	< 0.68
103-MetA18-17	UL D33	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	0.047	0.13
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	< 0.25	< 0.68
			Pb	0.13	< 0.13	< 0.35
71902380IPA_17			Se	0.25	0.32	0.87
103-MetA18-18	UL C38	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	0.36	0.98
			Pb	0.13	0.13	0.35
71902380IPA_18			Se	0.25	0.25	0.68

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Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m^3)
103-MetA18-19	UL H37	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	0.041	0.11
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	< 0.25	< 0.68
			Pb	0.13	0.13	0.35
71902380IPA_19			Se	0.25	0.26	0.71
103-MetA18-20	UL H33	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	< 0.25	< 0.68
			Pb	0.13	< 0.13	< 0.35
71902380IPA_20			Se	0.25	< 0.25	< 0.68
103-MetA18-21	LL H33	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	< 0.25	< 0.68
			Pb	0.13	< 0.13	< 0.35
71902380IPA_21			Se	0.25	0.31	0.84

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Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m^3)
103-MetA18-22	LL H38	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	< 0.25	< 0.68
			Pb	0.13	< 0.13	< 0.35
71902380IPA_22			Se	0.25	0.25	0.68
103-MetA18-23	LL C38	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	0.30	0.82
			Pb	0.13	0.21	0.57
71902380IPA_23			Se	0.25	< 0.25	< 0.68
103-MetA18-24	LL F31	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	0.041	0.11
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.72	2.0
			Pb	0.13	< 0.13	< 0.35
71902380IPA_24			Se	0.25	< 0.25	< 0.68

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Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m^3)
103-MetA18-25	Field Blank	-	Ag	0.25	< 0.25	--
			As	0.25	< 0.25	--
			Ba	0.038	< 0.038	--
			Cd	0.025	< 0.025	--
			Cr	0.25	0.30	--
			Pb	0.13	< 0.13	--
71902380IPA_25			Se	0.25	< 0.25	--
103-MetA18-26	Field Blank	-	Ag	0.25	< 0.25	--
			As	0.25	< 0.25	--
			Ba	0.038	< 0.038	--
			Cd	0.025	< 0.025	--
			Cr	0.25	0.31	--
			Pb	0.13	< 0.13	--
71902380IPA_26			Se	0.25	< 0.25	--

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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: 71902380
Client Code: _____

Contact Information

Company Name:	Occu-TEC, Inc
Address:	100 NW Business Park Ln Riverside, MO 64150
Contact:	Kevin Hereford
Phone ☐:	816-825-0628
Fax ☐:	816-994-3466
Email ☐:	Kheriford@occutec.com
PO Number:	918004
Project Name/Number:	GFC-103

Billing/Invoice Information

Company:	Same
Address:	
Contact:	Ap@occutec.com
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) ☐	RCRA 8 w/o H_2

Turn Around Times

3 Hours	☐	72 Hours	☐
6 Hours	☐	96 Hours	☐
12 Hours	☐	120 Hours	☐
24 Hours	☐	144+ Hours	☒
48 Hours	☐	Standard turn	

Sample ID #	Description/Location	Volume/Area	Comments
103-MetA18-01	LL G2	382.2 L	
103-MetA18-02	LL I-4-E4	377.3 L	
103-MetA18-03	LL C5	377.3 L	
103-MetA18-04	LL B8	372.4 L	
103-MetA18-05	LL B13	367.5 L	
103-MetA18-06	LL H18	367.5 L	
103-MetA18-07	LL H30	367.5 L	
103-MetA18-08	LL G3	367.5 L	
103-MetA18-09	UL G29	367.5 L	
103-MetA18-10	UL G25	367.5 L	
103-MetA18-11	UL F20	367.5 L	
103-MetA18-12	UL F17	367.5 L	
103-MetA18-13	UL C13	367.5 L	
103-MetA18-14	UL D8	367.5 L	
103-MetA18-15	UL G6	367.5 L	
103-MetA18-16	UL B2	367.5 L	Accepted ☑
103-MetA18-17	UL D33	367.5 L	Rejected ☐
103-MetA18-18	UL C38	367.5 L	
103-MetA18-19	UL H37	367.5 L	
103-MetA18-20	UL H33	367.5 L	

Total Number of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
		(b) (6)	1/28 10:30A

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: 71902380
Client Code: _____

Contact Information	
Company Name:	Occu-TEC, Inc
Address:	100 NW Business Park Ln
	Riverside, MO 64150
Contact:	Kevin Hereford
Phone ☐:	816-825-0628
Fax ☐:	816-994-3466
Email ☐:	khereford@occutec.com
PO Number:	918004
Project Name/Number:	GFC-103

Billing/Invoice Information	
Company:	Same
Address:	
Contact:	Ap@occutec.com
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)	RCRA 8 w/o Hg

Turn Around Times			
3 Hours	☐	72 Hours	☐
6 Hours	☐	96 Hours	☐
12 Hours	☐	120 Hours	☐
24 Hours	☐	144+ Hours	☒
48 Hours	☐	Standard turn	

Sample ID #	Description/Location	Volume/Area	Comments
103-MetA18-21	LL H33	367.5L	
103-MetA18-22	LL H38	367.5L	
103-MetA18-23	LL C38	367.5L	
103-MetA18-24	LL F31	367.5L	
103-MetA18-25	Field Blank	N/A	
103-MetA18-26	Field Blank	N/A	

Total Number of Samples 26

Relinquished by	Date/Time	Received by	Date/Time

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