

Riverside, MO 64150 Telephone: 816.231.5580 Fax: 816.231.5641 www.occutec.com

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 – #105 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 24, 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 #105.

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 #105 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	Highest
	Concentration	Concentration
	$(\mu g/m^3)$	$(\mu g/m^3)$
Silver (Ag)	< 0.68	< 0.68
Arsenic (As)	< 0.68	< 0.68
Barium (Ba)	< 0.10	0.17
Cadmium (Cd)	< 0.068	< 0.068
Total Chromium (Cr) *	< 0.68	1.70
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 #105 contained concentrations of RCRA metals below the laboratory's method reporting limit and the OSHA Permissible Exposure Limit (PEL) with the exception of Barium and 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 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,



Jeff T. Smith Senior Project Manager



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

Attn:

Client: Occu-Tec, Inc.

100 NW Business Park Ln.

Kevin Heriford

Lab Order ID:

71902384 01/29/2019

Riverside, MO 64150

Date Received: Date Reported:

02/05/2019

Project: GFC - 105

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)	Liement	Limit (µg)	(μg)	(μg/m ³)
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-01	LL H52		Ba	0.038	< 0.038	< 0.10
103-WetA18-01	LL H32	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.62	1.7
			Pb	0.13	< 0.13	< 0.35
71902384IPA_1			Se	0.25	< 0.25	< 0.68
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105 M. (A.10.02	11 140		Ba	0.038	< 0.038	< 0.10
105-MetA18-02 LL J49	367.5	Cd	0.025	< 0.025	< 0.068	
			Cr	0.25	0.35	0.95
			Pb	0.13	< 0.13	< 0.35
71902384IPA_2			Se	0.25	< 0.25	< 0.68
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105 M-44 19 02	LL B41		Ba	0.038	< 0.038	< 0.10
105-MetA18-03 LL B41	LL B41	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.61	1.7
			Pb	0.13	< 0.13	< 0.35
71902384IPA_3			Se	0.25	< 0.25	< 0.68

Melissa Ferrell	(b) (6)
Analyst	Lab Director



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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)	Element	Limit (µg)	(μg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-04	LL B34		Ba	0.038	< 0.038	< 0.10
103-WETA 18-04	LL B34	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.28	0.76
			Pb	0.13	< 0.13	< 0.35
71902384IPA_4			Se	0.25	< 0.25	< 0.68
		LL C37-D37 367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105 M. (A. 10. 05	11 027 D27		Ba	0.038	< 0.038	< 0.10
105-MetA18-05	LL C3/-D3/		Cd	0.025	< 0.025	< 0.068
		Cr	0.25	< 0.25	< 0.68	
			Pb	0.13	< 0.13	< 0.35
71902384IPA_5			Se	0.25	< 0.25	< 0.68
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105 M-44 19 06	11 541		Ba	0.038	< 0.038	< 0.10
105-MetA18-06	LL E41	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.41	1.1
			Pb	0.13	< 0.13	< 0.35
71902384IPA_6			Se	0.25	< 0.25	< 0.68

Melissa Ferrell	(D) (b)
Analyst	Lab Director



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



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GFC - 105

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)	Liement	Limit (µg)	(μg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-07	LL D44		Ba	0.038	< 0.038	< 0.10
103-MetA18-07	LL D44	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.30	0.82
			Pb	0.13	< 0.13	< 0.35
71902384IPA_7			Se	0.25	< 0.25	< 0.68
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105 35 44 10 00	11 540 540		Ba	0.038	< 0.038	< 0.10
105-MetA18-08 LL E49-F49	LL E49-F49	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	< 0.25	< 0.68
		Pb	0.13	< 0.13	< 0.35	
71902384IPA_8]	Se	0.25	< 0.25	< 0.68
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105 M. 4 A 10 00	11.620		Ba	0.038	< 0.038	< 0.10
105-MetA18-09 L	LL G28	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.29	0.79
			Pb	0.13	< 0.13	< 0.35
71902384IPA_9			Se	0.25	< 0.25	< 0.68

Melissa Ferrell	(b) (6)
Analyst	Lab Director



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



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Occu-Tec, Inc. **Client:**

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Riverside, MO 64150

GFC - 105

Attn: **Kevin Heriford**

Lab Order ID: **Date Received:**

71902384 01/29/2019

Date Reported:

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)	Element	Limit (µg)	(μg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-10	LL J35		Ba	0.038	< 0.038	< 0.10
103-WetA18-10	LL JSS	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.34	0.93
			Pb	0.13	< 0.13	< 0.35
71902384IPA_10			Se	0.25	< 0.25	< 0.68
	111 1152	UL H52 367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-11			Ba	0.038	< 0.038	< 0.10
103-WetA18-11	OL H32		Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.46	1.3
			Pb	0.13	< 0.13	< 0.35
71902384IPA_11			Se	0.25	< 0.25	< 0.68
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-12	UL G48		Ba	0.038	< 0.038	< 0.10
103-WetA18-12	UL G48	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	< 0.25	< 0.68
	<u> </u>		Pb	0.13	< 0.13	< 0.35
71902384IPA_12			Se	0.25	< 0.25	< 0.68

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Analyst	Lab Director



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Riverside, MO 64150

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Attn:

Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)	Element	Limit (µg)	(μg)	(μg/m ³)
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-13	UL C46		Ba	0.038	< 0.038	< 0.10
103-WetA18-13	OL C40	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.47	1.3
			Pb	0.13	< 0.13	< 0.35
71902384IPA_13			Se	0.25	< 0.25	< 0.68
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-14 UL F44	111 E44		Ba	0.038	< 0.038	< 0.10
	OL F44	367.5	Cd	0.025	< 0.025	< 0.068
		Cr	0.25	0.35	0.95	
			Pb	0.13	< 0.13	< 0.35
71902384IPA_14			Se	0.25	< 0.25	< 0.68
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-15	UL E41		Ba	0.038	< 0.038	< 0.10
103-MELA 16-13	UL E41	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.53	1.4
			Pb	0.13	< 0.13	< 0.35
71902384IPA_15			Se	0.25	< 0.25	< 0.68

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)	Element	Limit (µg)	(μg)	(μg/m ³)
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-16	UL C35		Ba	0.038	< 0.038	< 0.10
103-WCtA16-10	OL C33	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.36	0.98
			Pb	0.13	< 0.13	< 0.35
71902384IPA_16			Se	0.25	< 0.25	< 0.68
	UL G30	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-17			Ba	0.038	< 0.038	< 0.10
103-WetA18-17			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.42	1.1
			Pb	0.13	< 0.13	< 0.35
71902384IPA_17			Se	0.25	< 0.25	< 0.68
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-18	UL D27		Ba	0.038	< 0.038	< 0.10
103-MEIA16-18		367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	< 0.25	< 0.68
			Pb	0.13	< 0.13	< 0.35
71902384IPA_18			Se	0.25	< 0.25	< 0.68

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NIOSH Method 7300

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Kevin Heriford

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71902384 01/29/2019

100 NW Business Park Ln. Riverside, MO 64150

GFC - 105

Date Received: Date Reported:

01/29/2019 02/05/2019

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)	Element	Limit (µg)	(μg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-19	UL B22		Ba	0.038	< 0.038	< 0.10
103-WetA18-19	OL B22	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.35	0.95
			Pb	0.13	< 0.13	< 0.35
71902384IPA_19			Se	0.25	< 0.25	< 0.68
	UL H19	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-20			Ba	0.038	0.063	0.17
103-MetA18-20			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.29	0.79
			Pb	0.13	< 0.13	< 0.35
71902384IPA_20			Se	0.25	< 0.25	< 0.68
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-21	UL C11		Ba	0.038	< 0.038	< 0.10
103-MCIA 16-21	UL CII	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.40	1.1
			Pb	0.13	< 0.13	< 0.35
71902384IPA_21			Se	0.25	< 0.25	< 0.68

Melissa Ferrell	(b) (6)
Analyst	Lab Director



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



NIOSH Method 7300

Client: Occu-Tec, Inc.

100 NW Business Park Ln.

Riverside, MO 64150

GFC - 105

Attn: Kevin Heriford

Lab Order ID: Date Received: 71902384 01/29/2019

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)	Liement	Limit (μg)	Concentration (μg)	Concentration (μg/m³)
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105-MetA18-22	UL D4		Ba	0.038	0.04	0.11
103-WetA18-22	OL D4	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	< 0.25	< 0.68
			Pb	0.13	< 0.13	< 0.35
71902384IPA_22			Se	0.25	< 0.25	< 0.68
	LL G2	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105 M (A 10 22			Ba	0.038	0.039	0.11
105-MetA18-23			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	< 0.25	< 0.68
			Pb	0.13	< 0.13	< 0.35
71902384IPA_23			Se	0.25	< 0.25	< 0.68
			Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
105 M-44 19 24	1 I D12		Ba	0.038	< 0.038	< 0.10
105-MetA18-24	LL B12	367.5	Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.26	0.71
			Pb	0.13	< 0.13	< 0.35
71902384IPA_24			Se	0.25	< 0.25	< 0.68

Melissa Ferrell	(0) (0)
Analyst	Lab Director

/b) /C)



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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)	Element	Limit (µg)	(μg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	
			As	0.25	< 0.25	
105-MetA18-25	Field Blank		Ba	0.038	< 0.038	
103-WetA18-23	rieid Blank	-	Cd	0.025	< 0.025	
			Cr	0.25	0.52	
			Pb	0.13	< 0.13	
71902384IPA_25			Se	0.25	< 0.25	
	F: 11 D1 1		Ag	0.25	< 0.25	
		-	As	0.25	< 0.25	
105-MetA18-26			Ba	0.038	< 0.038	
103-MetA18-26	Field Blank		Cd	0.025	< 0.025	
			Cr	0.25	0.49	
			Pb	0.13	< 0.13	
71902384IPA_26			Se	0.25	< 0.25	

Melissa Ferrell	(b) (6)
Analyst	Lab Director



Scientific Analytical Institute
4604 Dundas Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313

Lab Use Only 19384 Lab Order ID:	-
Client Code:	

Page

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Contact Informati				Billing/Invoi	ce I	nformation				
Company Name: Occ	u - 7	TEC :	Inc		Company: Sane					
Address: 100	NW	Busines	n .	la	Address:					
Bisers	idi	MO 64150								
	,				Contact: A	00	occuber co	M		
Contact: Kevin	Heri	51			Phone :					
		-0628			Fax :					
		- 3466			Email : A. 6	200	cutec, con			
		@ occu	4	,						
	8000		11.07-1		Turn Aroun	d T	imes			
Project Name/Number:	GFC	1			3 Hours		72 Hours			
					6 Hours		96 Hours	. [
Lead Test Types			i rêdiye.		12 Hours		120 Hours			
Paint Chips by Flame AA (PBP)	Soil by (PBS)	Flame AA	Other 🔀		24 Hours		144+ Hours	X		
Wipe by Flame AA (PBW)		lame AA	ACRA 8	w/o	48 Hours		Standard	two		
Sample ID #		Descripti	on/Location		Volume/Area		Comments			
05-MetA18-01	L	1152			367.56					
05-MetA18-01	LL	J49			367.5 L					
05-MetA18-03	LL	BHI			367.5L					
05-MetA18-04	LL	234			367.56					
05-MetA18-05	LL	C37-0	37		367.5 L					
105-MetA18-06	4.6	E41			367.5 L					
05-MetA18-07	LL	D44			367.5 L					
05-Met 418-08	LL	E49-F	-49		367.5 L					
05-MetA18-09	L	6-28			367.5 L					
05-MetA18-10	Lh	J35			368.56	_				
05-MetA18-11	M	1152			367-5L					
05-MetAK-12	UL	6-48	·		367.5 L	-	Ac.			
05-Met418-13	-UL	(46			367.5 L		Ac _c	0		
105-Meta18-14	11	F44			367.5 L		A.			
05-MetAB-15	M	EHL	-17		367.5L	-	- Year			
105-MelA18-16	UL		35		367.5L	-	Reject	3		
05-Met A18-17	114	630			367.5L	-		Y		
105-Net A18-18	114	021			367.56		4			
105-MetA18-19	UL	B22			367.5 L	-				
105-MetA18-20	111	H19			367,5L					
						iber (of Samples			
Relinquished by		Date		Received by		11	Date/Time			
				(b) (6)		110	0 1130	Λ		



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:	1902384
Client Code:	

Contact Informatio				Billing/Invoice Information					
Company Name: Occ		TEC :	lona		Company: Same				
	NW	4	a Park	In	Address:				
		MO a							
	,				Contact: A	00	occuber co	244	
Contact: Kevin	11	CI			Phone :	-	DILLARY.		
		-0628			Fax □:				
6/6		3466					cutec, con		
- 8/W-	· C	@ occus	1		676	-00	CORE , CON	^	
TIPLE	8000		2.00		Turn Aroun	d T	imes		
Project Name/Number:	GFC				3 Hours		72 Hours		
	1950				6 Hours		96 Hours		
Lead Test Types					12 Hours		120 Hours		
Paint Chips by Flame AA		Flame AA	Other 🔀		24 Hours		144+ Hours		
(PBP) Wipe by Flame AA	(PBS) Air by F	lame AA	RCRA 8	1 w/o		=			
(PBW)	(PBA)		110-11-1	Ha	48 Hours		Standard	twn	
Sample ID#	e * 1	Descripti	on/Locatio	on	Volume/Area		Comments	3	
105-MetA18-21		11/-			367.5 6				
105 - MetA19-22		W.	D4		367.5L				
105-Me+A18-23		LLI	52		367.56				
105-Met A18-24		Ida	RIZ		367.5 L				
105-MetA18-25		Field	Blank		NIA				
105-MetA18-26		Field	Blank		NIA				
					/				
					Total Num	ber o	of Samples	26	
Relinquished by		Date/	Time	Received by			Date/Tim	ie	
				1			Page of	f]	

Appendix B Qualifications and Licenses



STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Austin G. O'Byrne

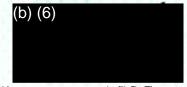
The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor Category of License

Issuance Date: 12/10/2018
Expiration Date: 12/10/2020

License Number: 181210-300005671





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

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