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June 11, 2019

Diane Czarnecki Industrial Hygienist Facilities Management Division GSA Public Buildings Service - Heartland Region U.S. General Services Administration 2300 Main Street, Kansas City, MO 64108

RE: Goodfellow Federal Center
Metals in Settled Dust Sampling – Building 104E
4300 Goodfellow Boulevard
St. Louis, Missouri 63120
OCCU-TEC Project No. 919083

Dear Ms. Czarnecki:

Thank you for the opportunity to assist the General Services Administration (GSA) with the metals in settled dust sampling investigation of Building 104E located at the Goodfellow Federal Center (GFC) in St. Louis, Missouri. OCCU-TEC Inc. (OCCU-TEC) understands that the purpose of the investigation was to provide additional sampling data of existing environmental conditions that are present at GFC that could adversely impact the health and safety of building occupants as well as workers at the facility. The following report summarizes the sample collection activities and the laboratory analytical results of samples submitted.

On May 30, 2019, a team of OCCU-TEC personnel including a Missouri licensed lead risk assessor conducted settled dust sampling for the presence of seven of the Resource Conservation and Recovery Act (RCRA) target metals (lead, arsenic, barium, cadmium, total chromium, selenium, and silver) from various surfaces within tenant-occupied areas within the building. The purpose of this testing was to further characterize the presence and concentration of target metals in common tenant-occupied areas of the building.

The proposed sampling scheme, the number of samples, the sample distribution and general methodology was developed by GSA and OCCU-TEC. Specific sample locations were determined by OCCU-TEC personnel while on-site.

Metals in Settled Dust Sampling

Metals in settled dust sampling was conducted within only within tenant-occupied areas.

Dust wipe sampling was conducted in accordance with ASTM Standard E1728-16: Standard Practice for Collection of Settled Dust Samples Using Wipe Sampling Methods for Subsequent Lead Determination. ASTM Standard E1728-16 is consistent with the methodology described in the Housing and Urban Development Guidelines and 40 CRF 745.63. The Brookhaven National Laboratory's Surface Wipe Sampling Procedure (IH75190) was also used as a guideline.

Dust wipe sampling for the target metals was conducted on a variety of representative surfaces that have the potential of being disturbed by building occupants. A representative surface area of approximately one square foot (1 SF) was measured and delineated with pre-fabricated, disposable templates. The dust wipe samples were collected using dedicated dust wipe cloths meeting ASTM standards. Each istened and individually wrapped. Each sample was collected "S" pattern over a measured sampling area. Then, the wipe rearea was wiped again in a direction perpendicular to the first wipe orientation. The wipe samples were then placed into labeled, clean laboratory-supplied plastic centrifuge tubes with screw on caps. Dust wipe samples were submitted to Scientific Analytical Institute, Inc. (SAI) in Greensboro, North Carolina for Inductively Coupled Plasma (ICP) analysis of metals analysis using Environmental Protection Agency (EPA) method SW846 350B/7420.

Results of the dust wipe samples collected from the building indicate that five (5) of the seven (7) samples contained concentrations of target metals above laboratory detection limits. The following table identifies the range of results for each of the seven metals that were analyzed. Samples with a "<" sign indicate that the results were below the reportable limit.

Analysis	Lowest	Highest
	Concentration	Concentration
	(μg/sq. ft.)	(µg/sq. ft.)
Silver	< 0.47	< 0.50
Arsenic	<1.9	<2.0
Barium	< 0.70	2.2
Cadmium	0.050	0.11
Total Chromium	< 0.47	0.60
Lead	< 0.25	3.1
Selenium	<1.2	<1.3

The samples collected did not contain target metals above the Brookhaven recommended levels.

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)

Justin Arnold, CIEC Environmental Scientist

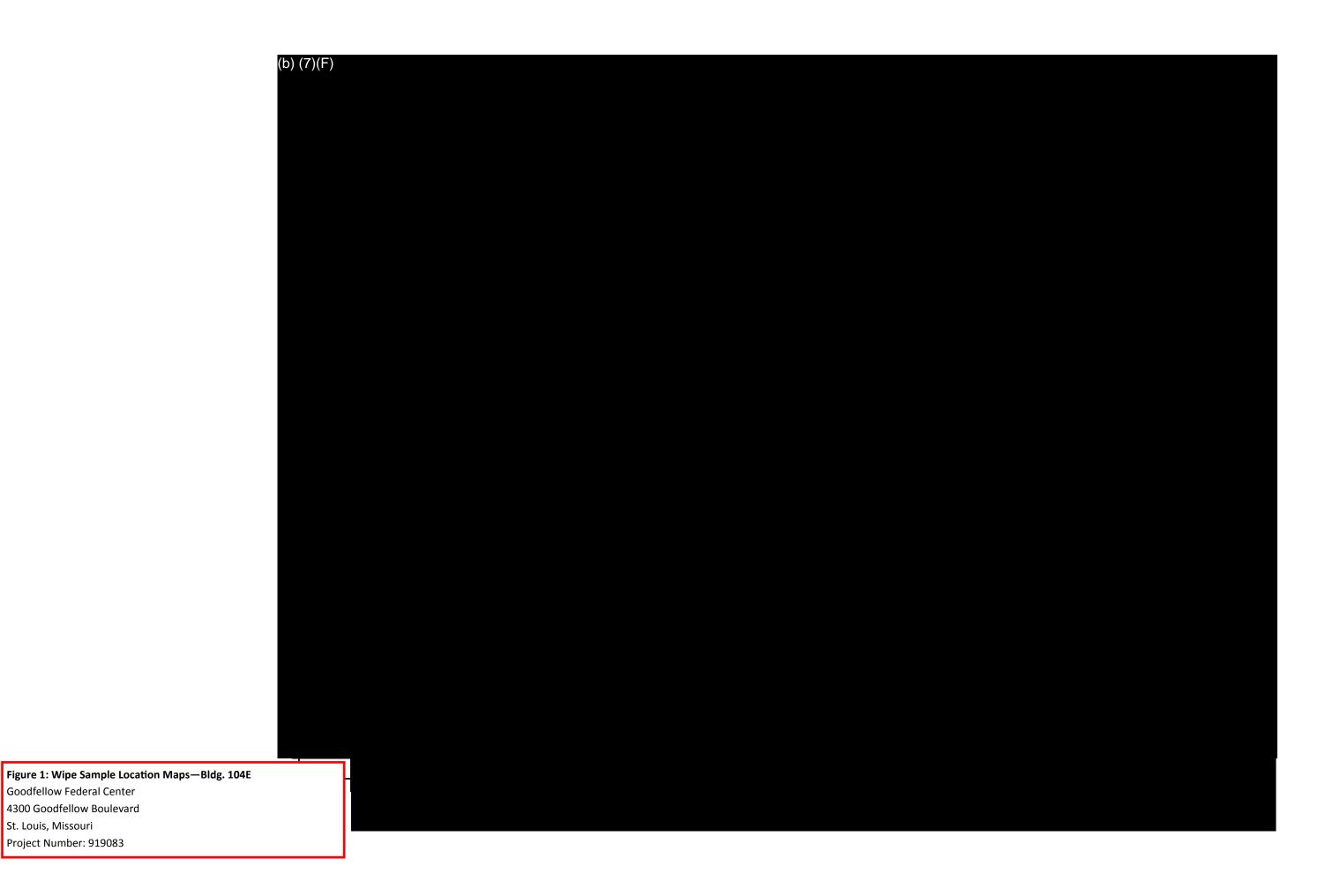


(b) (6)

Kevin Heriford Environmental Operations Manager (QA/QC)

Appendices:

- A Sample Summary Table
- B Laboratory Analysis Reports
- C Licenses



St. Louis, Missouri Project Number: 919083

Appendix A Sample Summary Table

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 2.00	μg/ft²	** 62
			Barium	1.50	μg/ft²	
104-W-01	Lower Level O52	Floor	Cadmium	0.08	μg/ft²	** 31
			Chromium	< 0.50	μg/ft²	
			Lead	0.46	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.47	μg/ft²	* 139/9.3
			Arsenic	< 1.90	μg/ft²	** 62
			Barium	< 0.70	μg/ft²	
104-W-02	Lower Level L50	Window Sill	Cadmium	< 0.047	μg/ft²	** 31
			Chromium	< 0.47	μg/ft²	
			Lead	< 0.23	μg/ft²	** 200/40
			Selenium	< 1.20	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 2.00	μg/ft ²	** 62
			Barium	< 0.75	μg/ft²	
104-W-03	Lower Level M48	Floor	Cadmium	< 0.05	μg/ft ²	** 31
			Chromium	< 0.50	μg/ft²	
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft ²	2007 40
			Silver	< 0.50	μg/ft ²	* 139/9.3
			Arsenic	< 2.00	μg/ft ²	** 62
			Barium	1.10	μg/ft ²	02
104-W-04	Lower Level P45	Desk Cabinet Top	Cadmium	< 0.05	μg/ft ²	** 31
104-77-04	Lower Level F43	Desk Cabinet 10p	Chromium	< 0.50	μg/ft ²	21
			Lead	< 0.25	μg/ft ²	** 200/40
			Selenium	< 1.30		200/40
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 2.00	μg/ft² μg/ft²	districts and
						** 62
404 14/ 05			Barium	1.30	μg/ft²	** • •
104-W-05	Upper Level M43	Floor	Cadmium	< 0.05	μg/ft²	** 31
			Chromium	< 0.50	μg/ft²	
			Lead	3.10	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 2.00	μg/ft²	** 62
			Barium	< 0.75	μg/ft²	
104-W-06	Upper Level M45	Floor	Cadmium	< 0.05	μg/ft²	** 31
			Chromium	< 0.50	μg/ft²	. — — — — — — — — — — — — — — — — — — —
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft ²	

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 2.00	μg/ft²	** 62
			Barium	1.30	μg/ft²	
104-W-07	Upper Level L49	Floor	Cadmium	< 0.05	μg/ft²	** 31
			Chromium	< 0.50	μg/ft²	
			Lead	0.70	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.48	μg/ft²	* 139/9.3
			Arsenic	< 1.90	μg/ft²	** 62
			Barium	2.20	μg/ft²	
104-W-08	Upper Level L49	Window Sill	Cadmium	0.11	μg/ft²	** 31
			Chromium	0.60	μg/ft²	
			Lead	0.82	μg/ft²	** 200/40
		Sel	Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 2.00	μg/ft²	** 62
			Barium	< 0.75	μg/ft²	
104-W-09	FB		Cadmium	< 0.05	μg/ft²	** 31
			Chromium	< 0.50	μg/ft²	
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	

^{*} Recommended Limits based on Table 3 (BNL Surface Wipe Criteria for Metals) of the Brookhaven Surface Wipe Sampling Procedure (IH75190), Rev 19: 3/4/14

Indicates results at or above REL

^{**} Recommended Limits based on Attachment 9.3 (Required & Recommended Surface Wipe Criteria) - Brookhaven Surface Wipe Sampling Procedure (IH75190), Rev 23: 6/23/17

Appendix B

Laboratory Analytical Reports



Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)



NIOSH 7300/EPA SW-846 3050B

Client: Occu-Tec, Inc.

100 NW Business Park Ln.

Riverside, MO 64150 Project: 919083.001 GFC Attn: Justin Arnold

Lab Order ID:

71914637

Date Received: Date Reported:

05/31/2019 06/06/2019

Page: 1 of 3

Sample ID	Description	Area		Reporting	Concentration	Concentration	
Lab Sample ID	Lab Notes	(ft ²)			(μg)	(μg/ft ²)	
			Ag	0.50	< 0.50	< 0.50	
			As	2.0	< 2.0	< 2.0	
104E-W-01	LL O52 - Floor		Ba	0.75	1.5	1.5	
		1	Cd	0.050	0.080	0.080	
			Cr	0.50	< 0.50	< 0.50	
71914637IPW_1			Pb	0.25	0.46	0.46	
7191403711 W_1			Se	1.3	< 1.3	< 1.3	
			Ag	0.50	< 0.50	< 0.47	
			As	2.0	< 2.0	< 1.9	
104E-W-02	LL L50 – Window Sill		Ba	0.75	< 0.75	< 0.70	
		1.07	Cd	0.050	< 0.050	< 0.047	
			Cr	0.50	< 0.50	< 0.47	
71914637IPW_2			Pb	0.25	< 0.25	< 0.23	
/191403/1F W_2			Se	1.3	< 1.3	< 1.2	
			Ag	0.50	< 0.50	< 0.50	
			As	2.0	< 2.0	< 2.0	
104E-W-03	LL M48 - Floor		Ba	0.75	< 0.75	< 0.75	
		1	Cd	0.050	< 0.050	< 0.050	
			Cr	0.50	< 0.50	< 0.50	
71914637IPW_3			Pb	0.25	< 0.25	< 0.25	
/191403/IFW_3			Se	1.3	< 1.3	< 1.3	

Melissa Ferrell

Analyst

Lab Director

Unless otherwise noted blank sample correction was not performed on analytical results. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. MDLs are available upon request. Time-weighted average (TWA) calculations are based on customer supplied data and valid only for samples included in the specified TWA group. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190.

^{*} SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.



Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)



NIOSH 7300/EPA SW-846 3050B

Client: Occu-Tec, Inc.

100 NW Business Park Ln.

Riverside, MO 64150

Project: 919083.001 GFC

Attn: Justin Arnold

Lab Order ID:

71914637 05/31/2019

Date Received: Date Reported:

05/31/2019 06/06/2019

Page:

2 of 3

Sample ID	Description	Area		Reporting	Concentration	Concentration	
Lab Sample ID	Lab Notes	(ft ²)	*Element	Limit (µg)	(µg)	$(\mu g/ft^2)$	
			Ag	0.50	< 0.50	< 0.50	
	LL P45 – Desk Cabinet Top		As	2.0	< 2.0	< 2.0	
104E-W-04				Ва	0.75	1.1	1.1
	1	1	Cd	0.050	< 0.050	< 0.050	
			Cr	0.50	< 0.50	< 0.50	
71914637IPW_4			Pb	0.25	< 0.25	< 0.25	
719140371F W_4			Se	1.3	< 1.3	< 1.3	
			Ag	0.50	< 0.50	< 0.50	
			As	2.0	< 2.0	< 2.0	
104E-W-05	UL M43 - Floor		Ва	0.75	1.3	1.3	
		1	Cd	0.050	< 0.050	< 0.050	
			Cr	0.50	< 0.50	< 0.50	
71914637IPW_5			Pb	0.25	3.1	3.1	
/191403/IPW_3			Se	1.3	< 1.3	< 1.3	
			Ag	0.50	< 0.50	< 0.50	
			As	2.0	< 2.0	< 2.0	
104E-W-06	UL M45 - Floor		Ba	0.75	< 0.75	< 0.75	
		1	Cd	0.050	< 0.050	< 0.050	
			Cr	0.50	< 0.50	< 0.50	
71914637IPW_6			Pb	0.25	< 0.25	< 0.25	
/191403/IFW_0			Se	1.3	< 1.3	< 1.3	

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Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)



NIOSH 7300/EPA SW-846 3050B

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Date Received:
Date Reported:

06/06/2019

Page: 3 of 3

Sample ID	Description	Area		Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(ft ²)	*Element	Limit (µg)	Concentration (μg)	(μg/ft ²)
			Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
104E-W-07	UL L49 - Floor		Ba	0.75	1.3	1.3
		1	Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914637IPW_7			Pb	0.25	0.70	0.70
/191403/IF W_/			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.48
			As	2.0	< 2.0	< 1.9
104E-W-08	UL L49 – Window Sill		Ba	0.75	2.3	2.2
		1.03	Cd	0.050	0.11	0.11
			Cr	0.50	0.60	0.60
71914637IPW_8			Pb	0.25	0.85	0.82
/191403/IPW_8			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	
			As	2.0	< 2.0	
104E-W-09	FB		Ba	0.75	< 0.75	
		-	Cd	0.050	< 0.050	
			Cr	0.50	< 0.50	
71914637IPW_9			Pb	0.25	< 0.25	
/191403/IF W_9			Se	1.3	< 1.3	

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Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407

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

Lab Use Only -	710	11112
<i>Lab Use Only –</i> Lab Order ID:	119	14001
Client Code: _		

Company Contact Information			Industrial Hygiene Test Ty	pes
Company: OCCU-TEC Inc.	Contact: Justin Arno	old	Silica as Alpha Quartz (XSZ)* With Respirable Dust (XDZ)	, \Box
Address: 2604 NE Industrial Drive, Suite 230	Phone :816-810-	3276	Silica as Cristobalite (XSC)* With Respirable Dust (XDC)	
North Kansas City, MO 64117	Fax :816-994-3	478	Silica as Tridymite (XST)* With Respirable Dust (XDT)) 🗆
	Email :jarnold@occ	utec.com	Silica as Alpha Quartz, Cristobalite, Tridym	
			(XSA)* Uith Respirable Dust (XDA)) 🔲
Billing/Invoice Information	Turn Around	Times^	Silica Bulk (XSI)*	
SAME	90 Min. 48 F	Iours 🗌	Bulk Phase ID/Whole Rock (XUK)	
Company:	3 Hours	lours 🔲	Total Dust NIOSH Method 0500 (GTD)	
Contact:	6 Hours	Iours 🔲	Respirable Dust NIOSH Method 0600 (GRD)	
Address:	12 Hours	Hours 🔳	PCM NIOSH 7400-A Rules (PCM)	
	24 Hours	Hours	B Rules (PCB) TWA (PTA)	
	TATs not available for cert	ain test types	TEM NIOSH 7402 (Asbestos) (TNI)	
PO Number:			Hexavalent Chromium (OSHA ID-215) (Note if from spray paint operations)	
Project Name/Number:919083.001 GFC			Metals (NIOSH 7300) (Specify Metals Under Comments)	
			Other 6010 C	X
		elementelle,	* Modified NIOSH 7500/OSHA ID 14.	2
Sample ID # Description/	C1	Volume/A		
Sample ID# Description/	floor	156	rea Comments Ag, As, Ba, Cd, Cr, Pb	o, Se
Sample ID# Description/ 104E-W-01 LL 052 - 1 104E-W-02 LL L50 - W	C1	1 0	rea Comments Ag, As, Ba, Cd, Cr, Pb	o, Se
Sample ID# Description/ 104E-W-01 LL 052 - 1 104E-W-02 LL L50 - W 04E-W-03 LL M48 - f	floor Vindow sill	156	rea Comments Ag, As, Ba, Cd, Cr, Pb	, Se , Se
Sample ID# Description/ 104E-W-01 LL 052- 104E-W-02 LL L50-W 04E-W-0203 LL M48-f 04E-W-0204 LL 1045-des	floor Indow sill	15F 11" × 14 15F	rea Comments Ag, As, Ba, Cd, Cr, Pb Ag, As, Ba, Cd, Cr, Pb	, Se o, Se o, Se
Sample ID# OHE-W-0 LL 052 - 104E-W-02 LL L50 - W OHE-W-0203 LL M48 - f OHE-W-0205 LL M43 - F	floor Vindow sill	15F	rea Comments Ag, As, Ba, Cd, Cr, Pb Ag, As, Ba, Cd, Cr, Pb Ag, As, Ba, Cd, Cr, Pb	o, Se o, Se o, Se
Sample ID# 04E-W-01	floor Vindow sill loor ok cabinet top	15F 11" × 14 15F	rea Comments Ag, As, Ba, Cd, Cr, Pb	o, Se o, Se o, Se o, Se
Sample ID# OHE-W-01 LL 052 - 1 OHE-W-02 LL L50 - W OHE-W-03 LL M48 - f OHE-W-0405 LL M43 - F OHE-W-0605 UL M43 - F OHE-W-06 UL M45 - f OHE-W-07 UL L49 - 1	floor Vindow sill loor ok cabinet top	15 F 11" × 14 15 F 15 F 15 F	rea Comments Ag, As, Ba, Cd, Cr, Pb	o, Se o, Se o, Se o, Se o, Se o, Se
104E-W-01 LL 052- 104E-W-02 LL L50-10 104E-W-0203 LL M48- f 104E-W-0605 LL M43- F 104E-W-06 UL M43- F	floor Vindow sill loor K cabinet top loor	15F 11" × 14 15F 15F	rea Comments Ag, As, Ba, Cd, Cr, Pb	o, Se o, Se o, Se o, Se o, Se o, Se o, Se
104E-W-01 LL 052- 104E-W-02 LL L50-W 04E-W-03 LL M48-f 04E-W-0405 LL 1045-des 104E-W-06 UL M43-8 104E-W-07 UL L49-	floor lindow sill loor k cabinet top loor loor floor window sill	15 F 11" × 14 15 f 15 f 15 f 15 f 5.5" × XT	rea Comments Ag, As, Ba, Cd, Cr, Pb	o, Se o, Se o, Se o, Se o, Se o, Se o, Se o, Se
104E-W-01 LL 052- 104E-W-02 LL L50-10 04E-W-0203 LL M48- f 04E-W-0804 LL 1045- des 04E-W-0805 UL M43-81 104E-W-06 UL M45- f 104E-W-07 UL L49- 104E-W-08 UL L49-	floor Vindow sill loor K cabinet top loor Toor	15 F 11" × 14 15 f 15 f 15 f 15 f 5.5" × XT	Comments Ag, As, Ba, Cd, Cr, Pb	, Se , Se , Se , Se , Se , Se , Se , Se
104E-W-01 LL 052- 104E-W-02 LL L50-10 104E-W-0203 LL M48- f 104E-W-0804 LL 1045- des 104E-W-06 UL M43-81 104E-W-06 UL M45- f 104E-W-07 UL L49- 104E-W-08 UL L49-	floor lindow sill loor k cabinet top loor loor floor window sill	15 F 11" × 14 15 f 15 f 15 f 15 f 5.5" × XT	rea Comments Ag, As, Ba, Cd, Cr, Pb	o, Se o, Se o, Se o, Se o, Se o, Se o, Se o, Se o, Se
104E-W-01 LL 052- 104E-W-02 LL L50-10 04E-W-0203 LL M48- f 04E-W-0804 LL 1045- des 04E-W-0805 UL M43-81 104E-W-06 UL M45- f 104E-W-07 UL L49- 104E-W-08 UL L49-	floor lindow sill loor k cabinet top loor loor floor window sill	15 F 11" × 14 15 f 15 f 15 f 15 f 5.5" × XT	Comments Ag, As, Ba, Cd, Cr, Pb	, Se , Se , Se , Se , Se , Se , Se , Se
104E-W-01 LL 052- 104E-W-02 LL L50-10 04E-W-0203 LL M48- f 04E-W-0804 LL 1045- des 04E-W-0805 UL M43-81 104E-W-06 UL M45- f 104E-W-07 UL L49- 104E-W-08 UL L49-	floor Vindow sill loor K cabinet top loor Toor Floor Window sill Accepte	15 F 11" × 14 15 f 15 f 15 f 15 f 5.5" × XT	Comments Ag, As, Ba, Cd, Cr, Pb	, Se , Se , Se , Se , Se , Se , Se , Se
104E-W-01 LL 052- 104E-W-02 LL L50-10 104E-W-0203 LL M48- f 104E-W-0804 LL 1045- des 104E-W-06 UL M43-81 104E-W-06 UL M45- f 104E-W-07 UL L49- 104E-W-08 UL L49-	floor Vindow sill loor K cabinet top loor Toor Floor Window sill Accepte	15 F 11" × 14 15 f 15 f 15 f 15 f 5.5" × XT	Comments Ag, As, Ba, Cd, Cr, Pb	, Se , Se , Se , Se , Se , Se , Se , Se
104E-W-02 LL L50-12 104E-W-0203 LL M48-f 104E-W-02005 LL M43-f 104E-W-0605 UL M43-F 104E-W-06 UL M45-f 104E-W-07 UL L49- 104E-W-08 UL L49-	floor Vindow sill loor Loor Loor Loor Loor Loor Accepte	15 F 11" × 14 15 f 15 f 15 f 15 f 5.5" × XT	Comments Ag, As, Ba, Cd, Cr, Pb Ag, As, Ba, Cd, Cr, Pb	o, Se o, Se
OHE-W-OL LL 052 - 10HE-W-0203 LL M48 - FI OHE-W-0203 LL M48 - FI OHE-W-0205 UL M43 - FI OHE-W-06 UL M45 - FI OHE-W-07 UL L49 - 10HE-W-08 UL L49 - FB Relinquished by Dai	floor Vindow sill loor Loor Loor Loor Loor Loor Loor Accepte	15 F 11" × 14 15 f 15 f 15 f 15 f 5.5" × XT	Comments Ag, As, Ba, Cd, Cr, Pb Total # of Samples	o, Se o, Se

Appendix C 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.

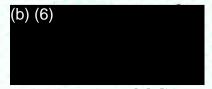
Lead Risk Assessor Category of License

Curegory or Error

Issuance Date: 6/11/2018
Expiration Date: 6/11/2020

License Number: 120611-300003622





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

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