

2604 NE Industrial Drive, Suite 230 North Kansas City, Missouri 64117 Telephone: 816.231.5580

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June 12, 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 – #110 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 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 May 15, 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 #110.

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 #110 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)	< 0.57	0.76
Arsenic (As)	< 0.57	< 0.64
Barium (Ba)	< 0.086	< 0.097
Cadmium (Cd)	< 0.057	0.099
Total Chromium (Cr) *	< 0.57	0.92
Lead (Pb)	< 0.29	0.41
Selenium (Se)	< 0.57	< 0.64

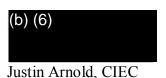
<sup>\*</sup> The laboratory reported trace amounts of total chromium above the laboratory detection limit on many samples, including field blanks. According to the lab, low levels of Chromium can be found as a contaminant in varying levels on MCE filters for different manufacturers and lots.

Results of the air samples collected indicate that the air samples collected from Building #110 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 location diagrams are included in Appendix A. Sample locations and the corresponding results are summarized in the laboratory analytical results that are included in Appendix B. The air sampling professional's Missouri Lead license is in included in Appendix C.

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.





**Environmental Scientist** 





#### Appendices:

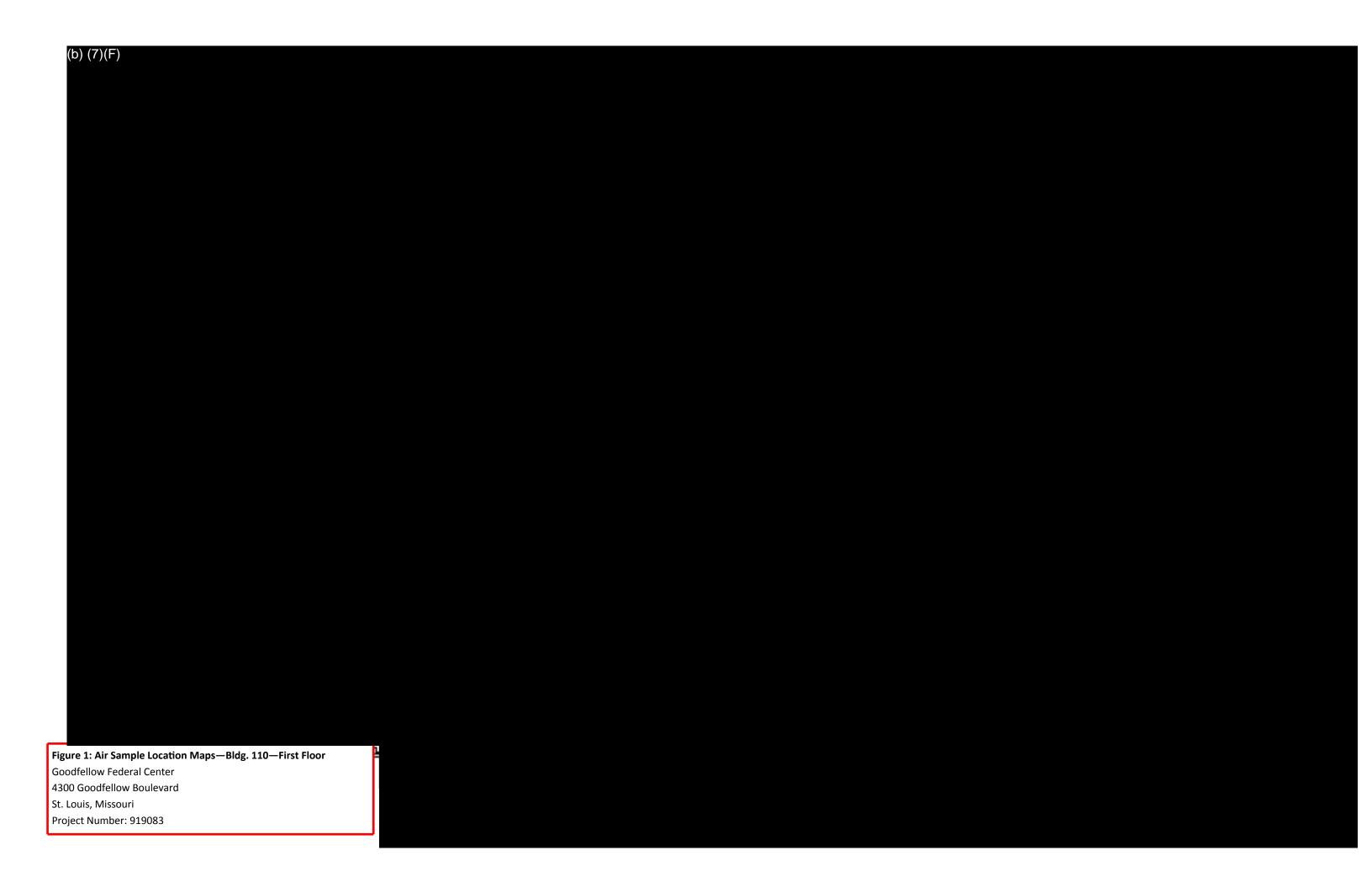
A: Sample Location Diagrams

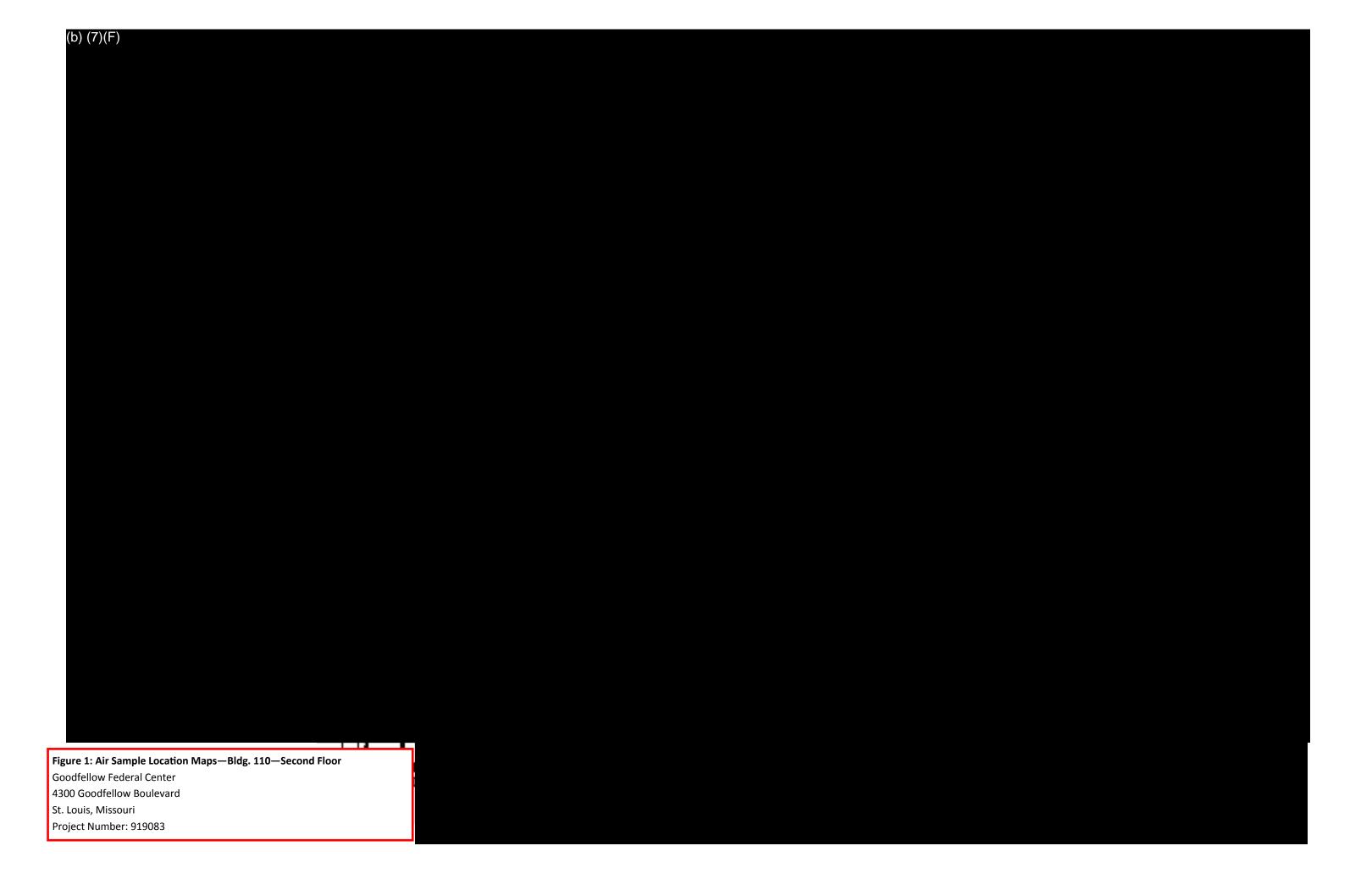
B: Laboratory Analytical Results and Chain of Custody Documentation

C: Qualifications and Licenses

# **Appendix A**Sample Location Diagrams







Appendix B
Laboratory Analytical Results and Chain of Custody
Documentation







**NIOSH Method 7303** 

Client: OCCU-TEC Inc.

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117

**Project:** 919083.001 GFC

Attn: Justin Arnold Lab Order ID:

Date Received: 0
Date Reported: 0

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)	23033030	Limit (µg)	(µg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-01	LL G2		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	< 0.25	< 0.64
71012741104 1			Pb	0.13	0.16	0.41
71913741IPA_1			Se	0.25	< 0.25	< 0.64
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-02	LL G5		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	0.34	0.87
71012741104 2			Pb	0.13	< 0.13	< 0.33
71913741IPA_2			Se	0.25	< 0.25	< 0.64

Melissa Ferrell

Analyst

Lab Director





71913741

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)		Limit (µg)	(µg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-03	LL B7		Ва	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	< 0.25	< 0.64
71012741104 2			Pb	0.13	< 0.13	< 0.33
71913741IPA_3			Se	0.25	< 0.25	< 0.64
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-04	LL A9		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	0.34	0.87
71913741IPA_4			Pb	0.13	< 0.13	< 0.33
/1913/411PA_4			Se	0.25	< 0.25	< 0.64

Melissa Ferrell

Analyst

Lab Director





**NIOSH Method 7303** 

**OCCU-TEC Inc. Client:** 

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117

919083.001 GFC **Project:** 

Lab Order ID: Attn: **Justin Arnold** 

**Date Received: Date Reported:** 

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)	23033037	Limit (µg)	(µg)	(μg/m <sup>3</sup> )
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-05	LL F10		Ва	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	< 0.25	< 0.64
71913741IPA_5			Pb	0.13	< 0.13	< 0.33
/1915/411PA_5			Se	0.25	< 0.25	< 0.64
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-06	LL E11		Ва	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
		Cr	0.25	0.32	0.82	
71012741104 (			Pb	0.13	< 0.13	< 0.33
71913741IPA_6			Se	0.25	< 0.25	< 0.64

(b) (6) Melissa Ferrell **Lab Director** Analyst





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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)		Limit (µg)	(µg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-07	LL B12		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	< 0.25	< 0.64
71012741104 7			Pb	0.13	< 0.13	< 0.33
71913741IPA_7			Se	0.25	< 0.25	< 0.64
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-08	LL A14		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	< 0.25	< 0.64
71012741104 0			Pb	0.13	< 0.13	< 0.33
71913741IPA_8			Se	0.25	< 0.25	< 0.64

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)		Limit (µg)	(µg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-09	UL C18		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
		_	Cr	0.25	< 0.25	< 0.64
71012741104 0			Pb	0.13	< 0.13	< 0.33
71913741IPA_9			Se	0.25	< 0.25	< 0.64
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-10	UL F16		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	0.36	0.92
71013741104 10			Pb	0.13	< 0.13	< 0.33
71913741IPA_10			Se	0.25	< 0.25	< 0.64

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)	Diement	Limit (µg)	(µg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-11	UL C15		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	0.29	0.74
71012741104 11			Pb	0.13	< 0.13	< 0.33
71913741IPA_11			Se	0.25	< 0.25	< 0.64
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-12	UL M12		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	< 0.25	< 0.64
71012741104 12			Pb	0.13	< 0.13	< 0.33
71913741IPA_12			Se	0.25	< 0.25	< 0.64

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**Project:** 

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



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North Kansas City, MO 64117

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)		Limit (µg)	(μg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-13	UL F10		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	0.26	0.66
71913741IPA_13			Pb	0.13	< 0.13	< 0.33
/1913/41IFA_13			Se	0.25	< 0.25	< 0.64
			Ag	0.25	< 0.25	< 0.57
			As	0.25	< 0.25	< 0.57
110-A-14	UL H11		Ba	0.038	< 0.038	< 0.086
		441	Cd	0.025	< 0.025	< 0.057
			Cr	0.25	< 0.25	< 0.57
71013741104 14			Pb	0.13	< 0.13	< 0.29
71913741IPA_14			Se	0.25	< 0.25	< 0.57

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)		Limit (µg)	(µg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.57
			As	0.25	< 0.25	< 0.57
110-A-15	UL K15		Ba	0.038	< 0.038	< 0.086
		441	Cd	0.025	< 0.025	< 0.057
			Cr	0.25	< 0.25	< 0.57
71913741IPA_15			Pb	0.13	< 0.13	< 0.29
/1913/41IFA_13			Se	0.25	< 0.25	< 0.57
			Ag	0.25	0.29	0.76
			As	0.25	< 0.25	< 0.66
110-A-16	UL D16		Ba	0.038	< 0.038	< 0.10
		379.75	Cd	0.025	< 0.025	< 0.066
			Cr	0.25	< 0.25	< 0.66
71012741104 16			Pb	0.13	< 0.13	< 0.34
71913741IPA_16			Se	0.25	< 0.25	< 0.66

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Lab Order ID: Date Received: 71913741 05/21/2019

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)	Diement	Limit (µg)	(µg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.65
			As	0.25	< 0.25	< 0.65
110-A-17	UL A14		Ba	0.038	< 0.038	< 0.099
		382.2	Cd	0.025	< 0.025	< 0.065
			Cr	0.25	0.25	0.65
71913710IPA_17			Pb	0.13	< 0.13	< 0.34
/1913/10IPA_1/			Se	0.25	< 0.25	< 0.65
			Ag	0.25	0.28	0.73
			As	0.25	< 0.25	< 0.65
110-A-18	UL D12		Ba	0.038	< 0.038	< 0.099
		384.65	Cd	0.025	0.038	0.099
			Cr	0.25	0.30	0.78
71012741104 19			Pb	0.13	< 0.13	< 0.34
71913741IPA_18			Se	0.25	< 0.25	< 0.65

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**NIOSH Method 7303** 

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)		Limit (µg)	(µg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.66
			As	0.25	< 0.25	< 0.66
110-A-19	UL A9		Ba	0.038	< 0.038	< 0.10
		379.75	Cd	0.025	< 0.025	< 0.066
			Cr	0.25	< 0.25	< 0.66
71913741IPA_19			Pb	0.13	< 0.13	< 0.34
/1913/41IPA_19			Se	0.25	< 0.25	< 0.66
			Ag	0.25	< 0.25	< 0.65
			As	0.25	< 0.25	< 0.65
110-A-20	UL D8		Ba	0.038	< 0.038	< 0.099
		382.2	Cd	0.025	0.038	0.099
			Cr	0.25	0.28	0.73
71012741104 20			Pb	0.13	< 0.13	< 0.34
71913741IPA_20			Se	0.25	< 0.25	< 0.65

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Lab Director





**NIOSH Method 7303** 

Attn:

Client: OCCU-TEC Inc.

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Justin Arnold

Lab Order ID:

71913741 05/21/2019

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)		Limit (µg)	(μg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-21	UL D5		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	< 0.25	< 0.64
71913741IPA_21			Pb	0.13	< 0.13	< 0.33
/1913/41IPA_21			Se	0.25	< 0.25	< 0.64
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
110-A-22	UL E2		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	0.25	0.64
71012741104 22			Pb	0.13	< 0.13	< 0.33
71913741IPA_22			Se	0.25	< 0.25	< 0.64

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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration (µg/m³)	
Lab Sample ID	Lab Notes	(L)		Limit (µg)	(μg)		
	UL J3	392	Ag	0.25	< 0.25	< 0.64	
			As	0.25	< 0.25	< 0.64	
110-A-23			Ba	0.038	< 0.038	< 0.097	
			Cd	0.025	< 0.025	< 0.064	
				Cr	0.25	0.26	0.66
71913741IPA_23			Pb	0.13	< 0.13	< 0.33	
			Se	0.25	< 0.25	< 0.64	
	UL M4	392	Ag	0.25	< 0.25	< 0.64	
			As	0.25	< 0.25	< 0.64	
110-A-24			Ba	0.038	< 0.038	< 0.097	
			Cd	0.025	< 0.025	< 0.064	
			Cr	0.25	0.26	0.66	
71012741IBA 24			Pb	0.13	< 0.13	< 0.33	
71913741IPA_24			Se	0.25	< 0.25	< 0.64	

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Sample ID  Lab Sample ID	Description  Lab Notes	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m³)
		-	Ag	0.25	< 0.25	
			As	0.25	< 0.25	
110-A-25	FB		Ba	0.038	< 0.038	
			Cd	0.025	< 0.025	
			Cr	0.25	0.28	
71913741IPA_25			Pb	0.13	< 0.13	
			Se	0.25	< 0.25	
	FB	-	Ag	0.25	< 0.25	
			As	0.25	< 0.25	
110-A-26			Ba	0.038	< 0.038	
			Cd	0.025	< 0.025	
			Cr	0.25	0.27	
71012741174 25			Pb	0.13	< 0.13	
71913741IPA_26			Se	0.25	< 0.25	

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Analyst

Lab Director



**Project:** 

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



**NIOSH Method 7303** 

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Sample ID  Lab Sample ID	Description  Lab Notes	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m³)
	FB		Ag	0.25	< 0.25	
110-A-27		-	As	0.25	< 0.25	
			Ba	0.038	< 0.038	
			Cd	0.025	< 0.025	
			Cr	0.25	0.33	
71012741104 27			Pb	0.13	< 0.13	
71913741IPA_27			Se	0.25	< 0.25	

Melissa Ferrell

Analyst

Lab Director



(b) (6)

**Company Contact Information** 

#### Scientific Analytical Institute, Inc.

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:	119	3	41
Client Code: _			

**Industrial Hygiene Test Types** 

Silica as Alpha Quartz (XSZ)\*

Company: OCCU-1E	npany: OCCU-TEC INC.		Contact: JUSTIN AFRIOID		With Respirable Dust (XDZ)		
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 □:816-994-3478		Silica as	Silica as Tridymite (XST)*  With Respirable Dust (XDT)		
		Email :jarnold	@occutec.com	Silica as (XSA)*	s Alpha Quartz, Cristobalite, Tridym	iite	
		- A	1771		With Respirable Dust (XDA	<u> </u>	
Billing/Invoice In	iformation		und Times	Silica Bulk (XSI)*		<u> </u>	
SAME		90 Min.	90 Min.		Bulk Phase ID/Whole Rock (XUK)		
Company:		3 Hours	72 Hours		Method 0500 (GTD)		
Contact:		6 Hours	96 Hours		ble Dust Method 0600 (GRD)		
Address:		12 Hours	120 Hours 🔲	PCM N	IOSH 7400-A Rules (PCM)		
		24 Hours	144 <sup>+</sup> Hours	B Rul	es (PCB) TWA (PTA)		
		TATs not available	for certain test types	TEM N	IOSH 7402 (Asbestos) (TNI)		
PO Number:					lent Chromium (OSHA ID-215) from spray paint operations)		
Project Name/Num	ber:919083.001 GFC				(NIOSH 7300) (Specify Metals Comments)		
				Other 6		1	
Sample ID #	Description/I	Dotation	Volume/A	1	Comments  Ag, As, Ba, Cd, Cr, Pb	). S	
110-A-OL	1-1 (-5		79) 1		Ag, As, Ba, Cd, Cr, Pb		
110-A-03	11 67		391 1		Ag, As, Ba, Cd, Cr, Pb	, S	
110-A-04	1 L A9		3911		Ag, As, Ba, Cd, Cr, Pb	, S	
10-A-05	LL F10		391 1		Ag, As, Ba, Cd, Cr, Pb	, S	
10-A-06	LL EII		392 1		Ag, As, Ba, Cd, Cr, Pb	, S	
10-A-07	LL B12		391	L	Ag, As, Ba, Cd, Cr, Pb	, S	
10-A-08	LL AH		3911		Ag, As, Ba, Cd, Cr, Pb	, S	
10-A-09	LL C19		392	1	Ag, As, Ba, Cd, Cr, Pb	, S	
110-A-10	LL FIGO	Cepted	3921	-	Ag, As, Ba, Cd, Cr, Pb	, S	
10-A-11	LL 615		391	-	Ag, As, Ba, Cd, Cr, Pb	, S	
10-A-12	LL MRej	Octo-	391	4	Ag, As, Ba, Cd, Cr, Pb	, S	
110-A-13	UL FIO	-ored	391		Ag, As, Ba, Cd, Cr, Pb	, S	
				Т	Total # of Samples		
Relinquis	hed by Date	e/Time	Received 1	by	Date/Tir	ne	

(b) (6)

Page



Scientific Analytical Institute, Inc. 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: Client Code:

Sample ID #	Description/Location	Volume/Area	Comments
110-A-14	UL 1411	4416	Ag, As, Ba, Cd, Cr, Pb, Se
110-A-15	ILL K15	441 6	Ag, As, Ba, Cd, Cr, Pb, Se
110-A-16	114 016	379,75L	Ag, As, Ba, Cd, Cr, Pb, Se
110 - A - 17	11L A14	382.2 6	Ag, As, Ba, Cd, Cr, Pb, Se
110-A-18	W/ 012	384.65L	Ag, As, Ba, Cd, Cr, Pb, Se
110-A-19	UL A9	379.75L	Ag, As, Ba, Cd, Cr, Pb, Se
110-A-20	UL D8	382.2 4	Ag, As, Ba, Cd, Cr, Pb, Se
110-A-21	UL 05	391 L	Ag, As, Ba, Cd, Cr, Pb, Se
110-A-22	ILL EZ	392 L	Ag, As, Ba, Cd, Cr, Pb, Se
110-A-13	W 53	392 L	Ag, As, Ba, Cd, Cr, Pb, Se
110-A-24	UL MY	39L.L	Ag, As, Ba, Cd, Cr, Pb, Se
110-A-25	FB	11/4	Ag, As, Ba, Cd, Cr, Pb, Se
110-A-16	EB	NA	Ag, As, Ba, Cd, Cr, Pb, Se
110-A-27	FB	NA	Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
	•		Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pesp,e
			Page 2 of 2

# 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

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

120611-300003622 License Number:





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

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

