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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 – #105F 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 #105F.

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 #105F 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.

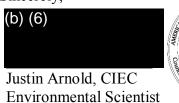
Analysis	Lowest	Highest
	Concentration	Concentration
	$(\mu g/m^3)$	$(\mu g/m^3)$
Silver (Ag)	< 0.64	< 0.64
Arsenic (As)	< 0.64	< 0.64
Barium (Ba)	< 0.097	< 0.097
Cadmium (Cd)	< 0.064	< 0.064
Total Chromium (Cr)	< 0.64	0.77
Lead (Pb)	< 0.33	< 0.33
Selenium (Se)	< 0.64	< 0.64

Results of the air samples collected indicate that the air samples collected from Building #105F 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. 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.







(b) (6)

Jeff Smith
Senior Project Manager (QA/QC)

Appendices:

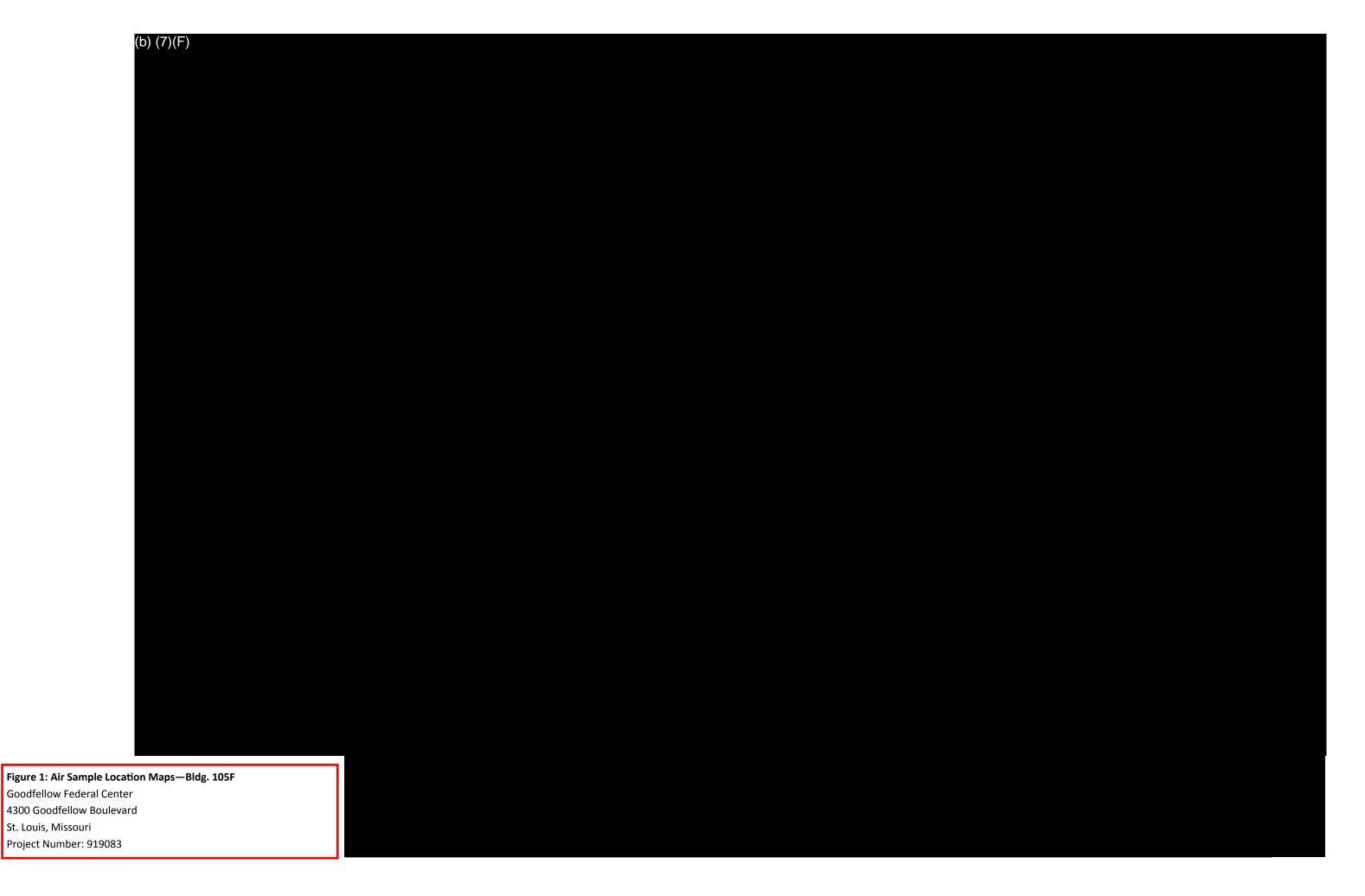
A: Sample Location Diagrams

B: Laboratory Analytical Results and Chain of Custody Documentation

C: Qualifications and Licenses

Appendix ASample 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: 71913744 05/21/2019

Date Reported:

05/21/2019 06/10/2019

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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
105F-A-01	UL O36		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	< 0.25	< 0.64
71913744IPA_1			Pb	0.13	< 0.13	< 0.33
/1913/441PA_1			Se	0.25	< 0.25	< 0.64
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
105F-A-02	UL P34		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	0.28	0.71
71913744IPA_2			Pb	0.13	< 0.13	< 0.33
			Se	0.25	< 0.25	< 0.64

Melissa Ferrell

Analyst

Lab Director





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

Lab Order ID: Date Received: 71913744 05/21/2019

Date Reported:

05/21/2019 06/10/2019

Page: 2 of 5

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
105F-A-03	UL L32		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	0.30	0.77
71012744IDA 2			Pb	0.13	< 0.13	< 0.33
71913744IPA_3			Se	0.25	< 0.25	< 0.64
	UL P28		Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
105F-A-04			Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	0.26	0.66
71913744IPA_4			Pb	0.13	< 0.13	< 0.33
			Se	0.25	< 0.25	< 0.64

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Attn: Justin Arnold Lab Order ID: 71913744

Date Received: 05/21/2019
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Sample ID	Sample ID Description		Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	Volume (L)		Limit (µg)	(μg)	$(\mu g/m^3)$
			Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
105F-A-05	LL P28		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
			Cr	0.25	0.28	0.71
71012744IDA 5			Pb	0.13	< 0.13	< 0.33
71913744IPA_5			Se	0.25	< 0.25	< 0.64
		L L30	Ag	0.25	< 0.25	< 0.64
	LL L30		As	0.25	< 0.25	< 0.64
105F-A-06			Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
		Cr	0.25	< 0.25	< 0.64	
71012744ID4 6			Pb	0.13	< 0.13	< 0.33
71913744IPA_6			Se	0.25	< 0.25	< 0.64

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71913744

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Project: 919083.001 GFC

Attn: Justin Arnold Lab Order ID:

Date Received: 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
105F-A-07	LL P33		Ba	0.038	< 0.038	< 0.097
		392	Cd	0.025	< 0.025	< 0.064
		_	Cr	0.25	< 0.25	< 0.64
71012744104 7			Pb	0.13	< 0.13	< 0.33
71913744IPA_7			Se	0.25	< 0.25	< 0.64
		LL L36 392	Ag	0.25	< 0.25	< 0.64
			As	0.25	< 0.25	< 0.64
105F-A-08 LL L36	LL L36		Ba	0.038	< 0.038	< 0.097
			Cd	0.025	< 0.025	< 0.064
			Cr	0.25	< 0.25	< 0.64
71913744IPA_8			Pb	0.13	< 0.13	< 0.33
			Se	0.25	< 0.25	< 0.64

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Page: 5 of 5

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	
		-	As	0.25	< 0.25	
105F-A-09	105F-A-09 FB		Ba	0.038	< 0.038	
			Cd	0.025	< 0.025	
			Cr	0.25	< 0.25	
71012714104 0		Pb	0.13	< 0.13		
71913744IPA_9			Se	0.25	< 0.25	

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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

Company Cont	Industrial Hygiene Test Types			
Company: OCCU-	I-TEC Inc. Contact: Justin Arnold			Silica as Alpha Quartz (XSZ)* With Respirable Dust (XDZ)
Address: 2604 NE	s: 2604 NE Industrial Drive, Suite 230 Phone :816			Silica as Cristobalite (XSC)* With Respirable Dust (XDC)
North Kansas City, MO 64117 Fax □:816-99			4-3478	Silica as Tridymite (XST)*
11011111101101	20 010,, 0 01111		occutec.com	With Respirable Dust (XDT) Silica as Alpha Quartz, Cristobalite, Tridymite
		7		(XSA)* Uith Respirable Dust (XDA)
Billing/Invoice	Information	Turn Arou	ind Times	Silica Bulk (XSI)*
SAME		90 Min.	48 Hours	Buik Phase ID/Whole Rock (XUK)
Company:		3 Hours	72 Hours	Total Dust NIOSH Method 0500 (GTD)
Contact:		6 Hours	96 Hours	Respirable Dust NIOSH Method 0600 (GRD)
Address:		12 Hours	120 Hours 🔲	PCM NIOSH 7400-A Rules (PCM)
		24 Hours	144⁺Hours ■	B Rules (PCB) TWA (PTA)
		^TATs not available	for certain test types	TEM NIOSH 7402 (Asbestos) (TNI)
PO Number:				Hexavalent Chromium (OSHA ID-215) (Note if from spray paint operations)
Project Name/Nu	mber:919083.001 GFC			Metals (NIOSH 7300) (Specify Metals Under Comments)
				Other 6010 C
				* Modified NIOSH 7500/OSHA ID 142
Sample ID #	Description/L	ocation	Volume/A	rea Comments
105F-A-01	11/2 1236	,	392 6	Ag, As, Ba, Cd, Cr, Pb, Se
105F-A-02	111 134		392 1	Ag, As, Ba, Cd, Cr, Pb, Se
105F-A-03	14 63	<u> </u>	391 1	Ag, As, Ba, Cd, Cr, Pb, Se
1051-A-04	UL PL8		392 1	Ag, As, Ba, Cd, Cr, Pb, Se
105F-A-05	Id PLS	?	392 L	Ag, As, Ba, Cd, Cr, Pb, Se
105F-A-06	LL 1-30	<i>)</i>	392 L	Ag, As, Ba, Cd, Cr, Pb, Se
105F-A-01	11 03	3	3911	Ag, As, Ba, Cd, Cr, Pb, Se
105F-A-178	1-1- 1-3	6	391	Ag, As, Ba, Cd, Cr, Pb, Se
105F-A-09	FB mar		100//	Ag, As, Ba, Cd, Cr, Pb, Se
	· ·	Accept Reject		Ag, As, Ba, Cd, Cr, Pb, Se
			The second secon	Ag, As, Ba, Cd, Cr, Pb, Se
		maiact	ed L	Ag, As, Ba, Cd, Cr, Pb, Se
	,	Kejow		Ag, As, Ba, Cd, Cr, Pb, Se
				Total # of Samples
Relinqu	ished by Date	e/Time	Received b	y Date/Time
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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