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November 5, 2019

Diane Czarnecki
Industrial Hygienist
Facilities Management Division
GSA Public Buildings Service - Heartland Region
2300 Main Street, Kansas City, MO 64108

RE: Goodfellow Federal Center – Bldg. # 106 Air Sampling for Total Chromium Project # 919103

Dear Ms. Czarnecki:

Thank you for the opportunity to provide the General Services Administration (GSA) with the above referenced environmental sampling activities. The following is our report.

INTRODUCTION

As requested, OCCU-TEC, Inc. (OCCU-TEC) conducted air sampling for the presence of total chromium at Building #106 of the Goodfellow Federal Center (GFC) located at 4300 Goodfellow Federal Boulevard in St. Louis, Missouri. Sampling was completed in response to the ongoing environmental condition assessment at the GFC which is documented at the GFC Reading Room located at:

https://www.gsa.gov/portal/content/212361.

Air sampling was conducted to determine the current levels of total chromium in representative locations throughout the building. Air sampling at Bldg. #106 was conducted on September 23, 2019 by Mr. Austin O'Byrne of OCCU-TEC.

METHODOLOGY

Air sampling for chromium was collected on 37-millimeter (mm) cassettes with 0.5 micrometer (µm) polyvinyl chloride (PVC) 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 chromium 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.

Air sampling for the presence of chromium was conducted at one (1) distinct locations within Building #106. A total of two (2) samples were obtained including field blanks. Sample location diagrams are attached as Appendix B. The air sampling professional's Missouri Lead license is included in Appendix D.

RESULTS AND DISCUSSION

A summary table of all sampling locations is included in Appendix A. The complete laboratory report for the air sampling from Scientific Analytical Institute is attached in Appendix C.

All results were below the Agency for Toxic Substances and Disease Registry (ATSDR) minimum risk level (MRL), the NIOSH recommended exposure limit (REL) and the laboratory's reporting limit (RL).

LIMITATIONS

The scope of this assessment was limited in nature. OCCU-TEC collected samples from a select number of locations in an effort to minimize cost while providing a general overview of the air quality at the site. Samples were only analyzed for chromium in accordance with the scope of services requested by GSA. OCCU-TEC is not responsible for potential contaminants not identified in this report.

This report was prepared for the sole use of GSA. Reliance by any party other than GSA is expressly forbidden without OCCU-TEC's written permission. Any parties relying on the report, with OCCU-TEC's written permission, are bound by the terms and conditions outlined in the original proposal as if said proposal was prepared for them.

OCCU-TEC appreciates the opportunity to work with the GSA on this project. Please contact us if you have any questions regarding this report or if we may be of any additional service.

Sincerely,

(b) (6)

Jeff T. Smith Senior Project Manager (b) (6)

Austin O'Byrne Environmental Scientist (QA/QC)

ATTACHMENTS

Appendix A, Sample Summary by Location

Appendix B, Sample Location Diagrams

Appendix C, Laboratory Analytical Results and Chain of Custody Documentation

Appendix D, Qualifications and Licenses



Appendix ASample Summary by Location



	Goodfellow Federal Cer	nter - Buildin	g # 106 -	Air Sample Data	
Sample Number	Location	Analyte	Result (µg/m		Recommended Exposure Limit** (REL) (µg/m³)
106-Cr-01	Field Blank	Chromium	< 1.20	5.00	500.00
106-Cr-02	Guard House - South	Chromium	< 1.20	5.00	500.00

^{*} MRLs are Agency for Toxic Substances and Disease Registry (ATSDR) estimates of the amount of a chemical a person can eat, drink, or breathe each day without a detectable risk to health

^{**}RELs are based on Appendix C (Supplementary Exposure Limits) of the National Institute for Occupational Safety and Health (NIOSH) Pocket Guide to Chemical Hazards, DHHS (NIOSH) Publication No. 2005-149. Revised September 2007. Indicates results at or above MRL

Appendix BSample Location Diagrams





Figure 1: Air Sample Location Maps—Bldg. 106

Goodfellow Federal Center

4300 Goodfellow Boulevard

St. Louis, Missouri

Project Number: 919103

Appendix C
Laboratory Analytical Results and Chain of Custody
Documentation





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



NIOSH Method 7303

Client: OCCU-TEC Inc. Attn: Justin Arnold Lab Order ID: 71925145 2604 NE Industrial Drive, Ste 230 Date Received: 09/27/2019

2604 NE Industrial Drive, Ste 230 North Kansas City, MO 64117

Date Reported: 10/03/2019 Date Amended: 10/08/2019

Project: 919103.001 GFC Page: 1 of 1

Sample ID	Description	Volume	Element	Reporting Limit	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)		(μg)	(µg)	(μg/m ³)
106-Cr-01	FB	-	Cr	0.50	< 0.50	-
71925145IPA_1						
106-Cr-02	Guard Shack	403.2	Cr	0.50	< 0.50	< 1.2
71925145IPA_2						

Melissa Ferrell

Analyst

Lab Director

This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by AIHA or any other agency of the U.S. government. Scientific Analytical Institute participates in the AIHA IHPAT program. IHPAT Laboratory ID: 173190. Unless otherwise noted blank sample correction was not performed on analytical results. MDLs are available upon request. Reporting limits stated above.



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

Lab Use Only 1925145	
Client Code:	

Company Contact	t Information			Indust	rial Hygiene Test Ty	pe
Company: OCCU-TE	C Inc.	Contact: Justin	Arnold	Silica as Alpha Quartz (XSZ)* With Respirable Dust (XDZ)		
Address: 2604 NE Indu	ustrial Drive, Suite 230	Phone □:816-	810-3276	Silica as Cristobalite (XSC)* With Respirable Dust (XDC)		
North Kansas	Fax :816-99	94-3478	Silica as Tridymite (XST)* With Respirable Dust (XDT)			
		Email :jarnold	@occutec.com	Silica as Alp (XSA)*	ha Quartz, Cristobalite, Tridyn	nite
					With Respirable Dust (XDA) [
Billing/Invoice Inf	ormation ·		und Times^	Silica Bulk (2	(SI)*	1
SAME		90 Min.	48 Hours		O/Whole Rock (XUK)	[
Company:		3 Hours	72 Hours Total Dust NIOSH Method 0500 (GTD)		od 0500 (GTD)]
Contact:	1	6 Hours	96 Hours	Respirable D NIOSH Meth	od 0600 (GRD)]
Address:		12 Hours	120 Hours	PCM NIOSH 7400-A Rules (PCM)] [
		24 Hours	144 ⁺ Hours □	B Rules (PC	B) TWA(PTA)	
		TATs not available	for certain test types	TEM NIOSH	7402 (Asbestos) (TNI)]
O Number:			,		hromium (OSHA ID-215) spray paint operations)	1
Project Name/Numbe	er:919083.001 GFC				H 7300) (Specify Metals	1
				Other NIOSI	1 7300	1
		ocation	Volume/A	rea	Comments	
	Description/L	ocation	Volume/A	rea	Comments Cr	
06-Cr-01	Description/L FB Luard Shack	ocation	Volume/A N/A 403.2	rea		_
06-4-01	FB	ocation	Volume/A	rea	Cr	
06-4-01	FB	ocation	Volume/A	rea	Cr Cr	
06-4-01	FB	ocation	Volume/A	rea	Cr Cr	
06-4-01	FB	ocation	Volume/A	rea	Cr Cr Cr	
06-4-01	FB	ocation	Volume/A	rea	Cr Cr Cr Cr	
06-Cr-01	FB	ocation	Volume/A	rea	Cr Cr Cr Cr Cr	
106-Cr-01	FB	ocation	Volume/A	rea	Cr Cr Cr Cr Cr	
106-Cr-01	FB	ocation	N/A 403.2	L	Cr Cr Cr Cr Cr Cr	
106-Cr-01	FB	ocation	Volume/A	L	Cr Cr Cr Cr Cr Cr Cr	
06-Cr-01	FB	ocation	N/A 403.1		Cr Cr Cr Cr Cr Cr Cr	
106-Cr-01	FB	ocation	N/A 403.2		Cr Cr Cr Cr Cr Cr Cr Cr	
106-Cr-01	FB	ocation	N/A 403.1		Cr Cr Cr Cr Cr Cr Cr Cr	
106-Cr-01	FB Luard Shack	/Time	N/A 403.1	Tota	Cr Cr Cr Cr Cr Cr Cr Cr Cr	ne
Relinquishe	FB Luard Shack	/Time	Accepted Rejected Received by	Tota	Cr C	ne
106-Cr-01	by Date		Accepted Rejected Received by	Tota	Cr C	

Appendix DQualifications 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