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November 21, 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 – Resampling 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 follow-up air sampling for the presence of total chromium at multiple buildings at the Goodfellow Federal Center (GFC) located at 4300 Goodfellow Federal Boulevard in St. Louis, Missouri. Sampling was completed in response previous, recent air monitoring results that indicated measurable levels of total Chromium within seven (7) buildings at GFC.

Although the initial results were well below established levels, GSA pro-actively imitated additional “enhanced cleaning” procedures in those areas. After the completion of the enhanced cleaning, the follow-up testing of those areas was completed.

Air sampling was conducted was conducted on November 8, 2019 by Mr. Kevin Heriford 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 400 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 total chromium was conducted at ten (10) distinct locations within the seven (7) buildings. A total of eleven (11) samples were obtained including field blanks. The air sampling technicians' certification is included in Appendix C.

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 B.

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

Samples were only analyzed for total 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)

Kevin Heriford
Operations Manager - Environmental (QA/QC)

ATTACHMENTS

Appendix A, Sample Summary by Location
Appendix B, Laboratory Analytical Results and Chain of Custody Documentation
Appendix C, Qualifications and Licenses



Appendix A

Sample Summary by Location



Goodfellow Federal Center - Air Sample Data

Sample Number	Location	Analyte	Result ($\mu\text{g}/\text{m}^3$)	Minimal Risk Level *(MRL) ($\mu\text{g}/\text{m}^3$)	Recommended Exposure Limit** (REL) ($\mu\text{g}/\text{m}^3$)
103-Cr-12.2	Bldg. 103 - 2nd Fl at Col D-35	Chromium	< 1.10	5.00	500.00
103-Cr-15.2	Bldg. 103 - 1st Fl at Col H-3	Chromium	< 1.10	5.00	500.00
103D-CR-01.2	Bldg. 103D - 1st Fl at Col L-38	Chromium	< 1.00	5.00	500.00
103D-Cr-05.2	Bldg. 103D - 2nd Fl at Col N-31	Chromium	< 1.10	5.00	500.00
103E-Cr-06.2	Bldg. 103R - 2nd Fl at Col P-20	Chromium	< 1.00	5.00	500.00
104E-Cr-05.2	Bldg. 104E - 2nd Fl at Col P-43	Chromium	< 1.10	5.00	500.00
105E-Cr-04.2	Bldg. 105E - 1st Fl at Col L-51	Chromium	< 1.00	5.00	500.00
105L-Cr-06.5	Bldg. 105L - at Col A-12	Chromium	< 1.10	5.00	500.00
110-Cr-10	Bldg. 110 - 1st Fl at Col G-15	Chromium	< 1.10	5.00	500.00
110-Cr-11	Bldg. 110 - 1st Fl at Col F-15	Chromium	< 1.10	5.00	500.00
	Field Blank	Chromium	< 0.5 μg		

* 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 B

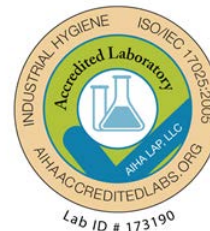
Laboratory Analytical Results and Chain of Custody Documentation





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

NIOSH Method 7303



Client:	OCCU-TEC Inc. 2604 NE Industrial Drive, Suite 230 North Kansas City, MO 64117	Attn: Kevin Heriford	Lab Order ID: 71928716	Date Received: 11/11/2019
Project:	GFC-Cr-Retake Pr #919103		Date Reported: 11/18/2019	Page: 1 of 2

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m ³)
<i>Lab Sample ID</i>	<i>Lab Notes</i>					
103-Cr-12.2	2 nd Floor D-35	464	Cr	0.50	< 0.50	< 1.1
71928716IPA_1						
103-Cr-15.2	1 st Floor H-3	464	Cr	0.50	< 0.50	< 1.1
71928716IPA_2						
103D-Cr-01.2	1 st Floor L38	491	Cr	0.50	< 0.50	< 1.0
71928716IPA_3						
103D-Cr-05.2	2 nd Floor @ N31	458	Cr	0.50	< 0.50	< 1.1
71928716IPA_4	<i>Labeled 103-Cr-05.5</i>					
103E-Cr-06.2	2 nd Floor @ P20	477	Cr	0.50	< 0.50	< 1.0
71928716IPA_5						
104E-Cr-05.2	2 nd Floor @ P43	461	Cr	0.50	< 0.50	< 1.1
71928716IPA_6						
105E-Cr-04.2	1 st Floor @ L51	477	Cr	0.50	< 0.50	< 1.0
71928716IPA_7	<i>Labeled 105E-Cr-04.5</i>					

Melissa Ferrell

Analyst

(b) (6)

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.



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

NIOSH Method 7303



Client:	OCCU-TEC Inc. 2604 NE Industrial Drive, Suite 230 North Kansas City, MO 64117	Attn: Kevin Heriford	Lab Order ID: 71928716	
			Date Received: 11/11/2019	
Project:	GFC-Cr-Retake Pr #919103		Date Reported: 11/18/2019	
			Page: 2 of 2	

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m ³)
<i>Lab Sample ID</i>	<i>Lab Notes</i>					
105L-Cr-06.5	@ A12	475	Cr	0.50	< 0.50	< 1.1
71928716IPA_8	Labeled 105L-Cr-06.2					
110-Cr-10	1 st Floor @ G15	464	Cr	0.50	< 0.50	< 1.1
71928716IPA_9	Labeled 110-Cr-10.2					
110-Cr-11	1 st Floor @ F15	464	Cr	0.50	< 0.50	< 1.1
71928716IPA_10	Labeled 110-Cr-11.2					
	Blank	-	Cr	0.50	< 0.50	-
71928716IPA_11	Not on COC					

Melissa Ferrell

Analyst

(b) (6)

Lab Director

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Lab Use Only: 71028110
 Lab Order ID: 71028110
 Client Code: _____

Contact Information

Company Name: Occu-TEC, Inc.
 Address: 2604 NE Industrial Dr Ste 230
North Kansas City, MO 64117
 Contact: Kevin Heriford
 Phone : 816-825-0628
 Fax : 816-994-3466
 Email : kheriford@occutec.com
 PO Number: 919103
 Project Name/Number: GFC-Cr-Retake Pr # 919103

Billing/Invoice Information

Company: Same
 Address: Same
 Contact: Accounts Payable
 Phone : 800-930-1953
 Fax :
 Email : Ap@occutec.com

Turn Around Times

3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
12 Hours <input type="checkbox"/>	120 Hours <input checked="" type="checkbox"/>
24 Hours <input type="checkbox"/>	144+ Hours <input type="checkbox"/>
48 Hours <input type="checkbox"/>	

Lead Test Types

Paint Chips by Flame AA (PBP) <input type="checkbox"/>	Soil by Flame AA (PBS) <input type="checkbox"/>	Other <input checked="" type="checkbox"/>
Wipe by Flame AA (PBW) <input type="checkbox"/>	Air by Flame AA (PBA) <input type="checkbox"/>	

Sample ID #	Description/Location	Volume/Area	Comments
<u>103-Cr-12.2</u>	<u>2nd Floor D-35</u>	<u>464 L</u>	<u>Cr only</u>
<u>103-Cr-15.2</u>	<u>1st Floor H-3</u>	<u>464 L</u>	<u>Cr only</u>
<u>103D-Cr-01.2</u>	<u>1st Floor L38</u>	<u>491 L</u>	<u>Cr only</u>
<u>103D-Cr-05.2</u>	<u>2nd Floor @ N31</u>	<u>458 L</u>	<u>Cr only</u>
<u>103E-Cr-06.2</u>	<u>2nd Floor @ P20</u>	<u>477 L</u>	<u>Cr only</u>
<u>104E-Cr-05.2</u>	<u>2nd Floor @ P43</u>	<u>461 L</u>	<u>Cr only</u>
<u>105E-Cr-04.2</u>	<u>1st Floor @ L51</u>	<u>477 L</u>	<u>Cr only</u>
<u>105L-Cr-06.5</u>	<u>@ A12</u>	<u>475 L</u>	<u>Cr only</u>
<u>110-Cr-10</u>	<u>1st Floor @ G15</u>	<u>464 L</u>	<u>Cr only</u>
<u>110-Cr-11</u>	<u>1st Floor @ F15</u>	<u>464 L</u>	<u>Cr only</u>

Accepted
 Rejected

Total Number of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
<u>(b) (6)</u>	<u>11/8 1600</u>	<u>(b) (6)</u>	<u>11/11 10:30a</u>

Appendix C

Qualifications and Licenses



THIS CERTIFIES THAT

Kevin Heriford

has successfully completed the training course and examination for

16-HOUR
MISSOURI DEPARTMENT OF NATURAL RESOURCES
ASBESTOS AIR SAMPLING TECHNICIAN TRAINING

Presented by:



Certificate Number: 7-OT-AAST001

October 7-8, 2013

Jeff Smith

Course Dates

Program Coordinator