



November 22, 2024

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

Re: Goodfellow Federal Center – Building 107 Air and Wipe Sampling Evaluation Addendum
Project No. 121244

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, Burns & McDonnell conducted area air sampling and wipe sampling for the presence of seven (7) RCRA metals including arsenic, barium, cadmium, chromium, lead, selenium, and silver within the occupied areas of the first floor of building 107 of the Goodfellow Federal Center located at 4300 Goodfellow Boulevard in St. Louis, Missouri. The purpose of the investigation was to provide ongoing sampling data to monitor conditions at the site. This report serves as an addendum to the *Goodfellow Federal Center – Building 107 Air and Wipe Sampling Evaluation*, dated December 27, 2021.

SAMPLING METHODOLOGY

Dust wipe sampling was conducted in accordance with ASTM Standard E1728: *Standard Practice for Collection of Settled Dust Samples Using Wipe Sampling Methods for Subsequent Lead Determination* and ASTM Standard D6966: *Standard Practice for Collection of Settled Dust Samples Using Wipe Sampling Methods for Subsequent Determination of Metals*. ASTM Standards E1728 and D6966 are consistent with the methodology described in the Housing and Urban Development Guidelines-Appendix 13.1 and 40 CFR 745.63. The Brookhaven National Laboratory's Surface Wipe Sampling Procedure (IH75190) was also used as a guideline.

A representative surface area of approximately one square foot (1 SF) was measured and delineated. The dust wipe samples were collected using dedicated dust wipe cloths meeting ASTM E1792 Standard. Each dust wipe cloth was pre-moistened and individually wrapped. Each sample was collected by wiping in a back and forth "S" pattern over a measured sampling area using a clean, disposable glove. Then, the wipe was folded over itself and the area was wiped again in a direction perpendicular to the first wipe orientation. Then, the wipe folded over itself again and the area was wiped around the perimeter. The wipe sample was then placed into a labeled, clean container.



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Air samples for RCRA metals were collected on 37-millimeter (mm) cassettes with 0.8 micrometer (μm) mixed cellulose ester (MCE) filters, using powered air sampling pumps, in accordance with the National Institute for Occupational Safety and Health (NIOSH) Method 7300. The sampling strategy included collecting a minimum sample volume of 500 liters based on the calibrated pump flow rate and sample duration.

All samples were submitted under chain-of-custody to Environmental Hazards Services, LLC (EHS) in Richmond, Virginia for independent analysis of 7 RCRA metals. Air samples were analyzed by Inductively Coupled Plasma (ICP) according to NIOSH method 7300. Wipe samples were analyzed according to Environmental Protection Agency (EPA) method SW846-3050B/6010D. EHS is accredited under the American Industrial Hygiene Association (AIHA) Industrial Hygiene Laboratory Accreditation Program (IHLAP) program, identification number LAP-100420.

SAMPLE SUMMARY AND RESULTS

Air and wipe samples were collected on November 8, 2024 by Ashley Anstaett of Burns & McDonnell.

One (1) air sample was collected from the top of the northeast desk in room 102 on the 1st floor. All analytes were below laboratory reporting limits. The complete air sampling laboratory report from EHS is included as Appendix A.

One (1) wipe sample was collected from the round table in the center of room 102 on the 1st floor. All analytes were below laboratory reporting limits. The complete wipe sampling laboratory report from EHS is included as Appendix B.

LIMITATIONS

The scope of this assessment was limited in nature. Burns & McDonnell collected samples from a representative number of surfaces in an effort to minimize cost while providing a general overview of site conditions. Sample locations do not encompass all surfaces at the site. Additionally, samples were only analyzed for a select number of potential contaminants. Burns & McDonnell is not responsible for potential contaminants not identified in this report.

Burns & McDonnell appreciates the opportunity to work for GSA on this project. Please contact us if you have any questions regarding this report or if we may be of any additional service.



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Sincerely,

(b) (6)

A large black rectangular redaction box covering the signature area.

Matt Shanahan, CHMM
Project Manager

Attachments:

- Appendix A – Air Sampling Laboratory Report
- Appendix B – Wipe Sampling Laboratory Report

Information in Appendices A and B are not accessible for people using screen reader technology. If this information is required, it can be furnished upon request by contacting 816-223-6198 or r6environmental@gsa.gov.

APPENDIX A – AIR SAMPLING LABORATORY REPORT



7469 Whitepine Rd
North Chesterfield, VA 23237
Telephone: 800.347.4010

Air Metals Analysis Report

Client: Burns & McDonnell Engineering
9400 Ward Pkwy.
Kansas City, MO 64114

Report Number: 24-11-03228

Received Date: 11/18/2024

Reported Date: 11/25/2024

Project/Test Address: 168765; 4300 Goodfellow Blvd.

Client Number:

26-3514

Fax Number:

816-822-3494

Laboratory Results

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m ³)	Narrative ID
24-11-03228-001	107-A-01	11/21/2024	Arsenic (As)	557	<0.15	<0.27	
			Barium (Ba)		<0.15	<0.27	
			Cadmium (Cd)		<0.030	<0.054	
			Chromium (Cr)		<0.75	<1.4	
			Lead (Pb)		<0.15	<0.27	
			Selenium (Se)		<0.75	<1.4	
			Silver (Ag)		<0.15	<0.27	
24-11-03228-002	107-A-02	11/21/2024	Arsenic (As)	--	<0.15	---	
			Barium (Ba)		<0.15	---	
			Cadmium (Cd)		<0.030	---	
			Chromium (Cr)		<0.75	---	
			Lead (Pb)		<0.15	---	
			Selenium (Se)		<0.75	---	
			Silver (Ag)		<0.15	---	

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 24-11-03228

Project/Test Address: 168765; 4300 Goodfellow Blvd.

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m ³)	Narrative ID
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Sample Narratives:

Method: NIOSH 7300M
Analyst: Carlos Gonzalez

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Reviewed By Authorized Signatory:

Tasha Eaddy
QA/QC Clerk

Sample Results denoted with a "less than" (<) sign contains less than the reporting limit for each particular metal, based on a 15mL volume. The reporting limit is 0.03ug for Cadmium, 0.15ug for Arsenic, Barium, Lead and Silver, and 0.75ug for Chromium and Selenium.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Unless otherwise noted, samples are reported without a dry weight correction. Sample location, description, area, volume, etc., was provided by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. These sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C.

LEGEND	ug = microgram	ug/m ³ = micrograms per cubic meter
	mL = milliliter	L= Liters

ENVIRONMENTAL HAZARDS SERVICES, LLC

Metals Chain of Custody Form

Pg. 1 of 1

Company Name		Burns & McDonnell		Account #		26-3514	
Company Address		9400 Ward Parkway		City/State/Zip		Kansas City, MO 64114	
Phone		314-636-233-1270		Email		eapulcher@burnsmcd.com	
Project Name / Testing Address		GFC / 4300 Goodfellow Blvd					
PO Number		168765		Collected By		A. Anstaett	
Turn-Around Time		☐ 5 DAY ☒ 3 DAY ☐ 2 DAY ☐ 1 DAY ☐ SAME DAY OR WEEKEND - Must Call Ahead					

LAB NUMBER	Client Sample ID	Collection Date & Time	METALS							Other Metals	PARTICULATES				AIR			WIPES	
			Pb TCLP	TCLP RCRA 8	RCRA 8 Total	Toxic Metal Profile	Welding Fume Profile	TX 11 TCLP	CA 17 Total		Total Nuisance Dust	Respirable Dust	TSP Gravimetric	TSP Pb	PM-10	Total Time	Flow Rate		Vol.
																Mins.	L/min.		Total Liters
1	107-A-01	11/8 1138							Ag, As, Ba, Cd, Cr, Pb, Se						217	-	557	x	
2	107-A-02	11/8 0756													-	-	-	x	
3																		x	
4	107-W-01	11/8 1103																NA x NA	
5	107-W-02	11/8 1105																12 x 12	
6																		x	
7																		x	
8																		x	
9																		x	
10																		x	
11																		x	
12																		x	
13																		x	
14																		x	
15																		x	

Released By:	A. Anstaett	Date:	11/13/2024	Time:	1600
Signature:	(b) (6)				

LAB USE ONLY - BELOW THIS LINE

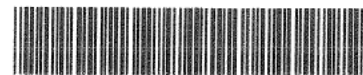
Received By: H. Humphrey
 Signature: (b) (6)
 Date: 11/18/24 Time: 3:50 ☐ AM ☒ PM

☐ Portal Contact Added

7469 WHITEPINE RD, RICHMOND, VA 23237 (800)-347-4010

RESULTS VIA CLIENT PORTAL AVAILABLE @ www.leadlab.com

24-11-03228



Due Date:

11/25/2024

(Monday)

EL

MM-L

APPENDIX B – WIPE SAMPLING LABORATORY REPORT



7469 Whitepine Rd
North Chesterfield, VA 23237
Telephone: 800.347.4010

Wipe Metals Analysis Report

Client: Burns & McDonnell Engineering
9400 Ward Pkwy.
Kansas City, MO 64114

Report Number: 24-11-03223

Received Date: 11/18/2024

Analyzed Date: 11/19/2024

Reported Date: 11/21/2024

Project/Test Address: 168765; GFC 4300 Goodfellow Blvd

Client Number:
26-3514

Laboratory Results

Fax Number:
816-822-3494

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
24-11-03223-001	107-W-01	Arsenic (As)		<2.50	---	L01
		Barium (Ba)		<0.500	---	L01
		Cadmium (Cd)		<0.100	---	L01
		Chromium (Cr)		<1.00	---	L01
		Lead (Pb)		<0.500	---	L01
		Selenium (Se)		<2.50	---	L01
		Silver (Ag)		<0.500	---	L01
24-11-03223-002	107-W-02	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	<0.500	<0.50	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 24-11-03223

Project/Test Address: 168765; GFC 4300 Goodfellow Blvd

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
		Lead (Pb)	1.00	<0.500	<0.50	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01

Sample Narratives:

L01: LCS and LCSD percent recovery for Se were outside of acceptance limits.

Analyst: Max Dichek

Method: EPA SW846 3050B/6010D

(b) (6)

Reviewed By Authorized Signatory:

Tasha Eaddy

QA/QC Clerk

Sample Results denoted with a "less than" (<) sign contains less than the reporting limit based on a 50mL volume. The reporting limit for Lead is 0.5ug.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Unless otherwise noted, samples are reported without a dry weight correction. Sample location, description, area, volume, etc., was provided by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. These sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C.

Legend	ug = microgram	ug/ft ² = micrograms per square foot
	mL = milliliter	ft ² = square foot

ENVIRONMENTAL HAZARDS SERVICES, LLC

Metals Chain of Custody Form

Pg 1 of 1

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Company Address		9400 Ward Parkway		City/State/Zip		Kansas City, MO 64114	
Phone		314-636-233-1270		Email		eapulcher@burnsmcd.com	
Project Name / Testing Address		GFC / 4300 Goodfellow Blvd					
PO Number		168765		Collected By		A. Anstaeht	
Turn-Around Time		☐ 5 DAY ☒ 3 DAY ☐ 2 DAY ☐ 1 DAY ☐ SAME DAY OR WEEKEND - Must Call Ahead					

LAB NUMBER	Client Sample ID	Collection Date & Time	METALS						Other Metals	PARTICULATES					AIR			WIPES	
			Pb TCLP	TCLP RCRA 8	RCRA 8 Total	Toxic Metal Profile	Welding Fume Profile	TX 11 TCLP		CA 17 Total	Total Nuisance Dust	Respirable Dust	TSP Gravimetric	TSP Pb	PM-10	Total Time	Flow Rate	Vol.	AREA
									Ag, As, Ba, Cd, Cr, Pb, Se						Mins.	L/min.	Total Liters	Circle The Unit of Measurement Used cm or in	
1	107-A-01	11/8 1138													217	-	557	x	
2	107-A-02	11/8 0756													-	-	-	x	
3																		x	
4	107-W-01	11/8 1103																NA x NA	
5	107-W-02	11/8 1105																12 x 12	
6																		x	
7																		x	
8																		x	
9																		x	
10																		x	
11																		x	
12																		x	
13																		x	
14																		x	
15																		x	

Released By:	A. Anstaeht	Date:	11/13/2024	Time:	1600
Signature:	(b) (6)				

LAB USE ONLY - BELOW THIS LINE

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☐ Portal Contact Added

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 RESULTS VIA CLIENT PORTAL AVAILABLE @ www.leadlab.com

24-11-03223



Due Date:
 11/21/2024
 (Thursday)
 EL MM-L