

April 16, 2021

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 104 DISC Generators Wipe Sampling Evaluation 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 dust wipe sampling and testing for the presence of lead within the DISC emergency generator enclosures outside of Building 104 of the Goodfellow Federal Center located at 4300 Goodfellow Boulevard in St. Louis, Missouri. The purpose of the investigation was to provide sampling data regarding existing conditions to supplement previous investigation reports prepared for the facility. Dust wipe sampling was conducted on April 16, 2021 by Emily Ahlemeyer of Burns & McDonnell.

DUST WIPE SAMPLING AND RESULTS

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 samples were then placed into labeled, sealed containers. Dust wipe samples were submitted to EMSL Analytical, Inc. in St. Louis, MO for Lead in Dust by Flame Atomic Absorption analysis using Environmental Protection Agency (EPA) method SW846-3050B/7000B.



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Dust wipe sampling for the presence of lead was conducted at eight (8) distinct locations within the DISC generator enclosures. A total of nine (9) samples were obtained including one (1) field blank sample.

Eight (8) samples exceeded the lead clean area limit of 10 micrograms per square foot (μ g/sq. ft). The specific sample locations and analytical results are presented in Appendix A. The complete laboratory report for the wipe sampling from EHS is attached in 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 equipment 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 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,



Matt Shanahan, CHMM Project Manager

Attachments:

Appendix A – Wipe Sampling Summary Table Appendix B – Wipe Sampling Laboratory Report

Information in Appendix B is 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 Wipe Sample Summary Table

						Clean Area
Sample Number	Location	Area Description	Analyte	Result	Units	Limit*
104-W-01	DISC Generator D	Floor inside east doors	Lead	73 **	μg/ft ²	10
104-W-02	DISC Generator D	Floor inside north door	Lead	76 **	μg/ft ²	10
104-W-03	DISC Generator C	Cross beam inside east door	Lead	160 **	μg/ft ²	10
104-W-04	DISC Generator C	Floor inside northwest door	Lead	270 **	μg/ft ²	10
104-W-05	DISC Generator B	Floor inside east doors	Lead	250 **	μg/ft ²	10
104-W-06	DISC Generator B	Floor inside northwest door	Lead	1,200 **	μg/ft²	10
104-W-07	DISC Generator A	Cross beam inside east door	Lead	660 **	μg/ft ²	10
104-W-08	DISC Generator A	Floor inside northwest door	Lead	540 **	μg/ft ²	10
104-W-09	Field Blank		Lead	< 10	μg	

^{*} Clean Area Limit: Brookhaven references EPA/HUD limit for floors, set at 10 μg/sq. ft. as of January 2020.

μg/ft² - micrograms per square foot

^{**} Indicates results at or above the Clean Area Limit





EMSL Analytical, Inc.

100 Green Park Industrial Court, Saint Louis, MO 63123

Phone/Fax: (314) 577-0150 / (314) 776-3313

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Emily Ahlemeyer Burns & McDonnell 9400 Ward Parkway Kansas City, MO 64114 Phone: (314) 302-4661 Fax: (816) 822-3028 Received: 4/15/2021 09:20 AM

EMSL Order:

CustomerID:

CustomerPO:

ProjectID:

392103789

BURN50

Collected:

Project: GFC / 121244

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected	Analyzed	Area Sampled	RDL	Lead Concentration
104-W-01 392 <i>103789-0001</i>		4/15/2021	144 in²	10 μg/ft²	73 μg/ft²
104-W-02 392103789-0002		4/15/2021	144 in²	10 μg/ft²	76 μg/ft²
104-W-03 392103789-0003		4/15/2021	144 in²	10 μg/ft²	160 μg/ft²
104-W-04 392103789-0004		4/15/2021	144 in²	10 μg/ft²	270 μg/ft²
104-W-05 392103789-0005		4/15/2021	144 in²	10 μg/ft²	250 μg/ft²
104-W-06 392103789-0006		4/15/2021	144 in²	50 μg/ft²	1200 μg/ft²
104-W-07 392103789-0007		4/15/2021	97.5 in²	15 μg/ft²	660 µg/ft²
104-W-08 <i>392103789-0008</i>		4/15/2021	144 in²	50 μg/ft²	540 μg/ft²
104-W-09		4/15/2021	N/A	10 µg/wipe	<10 µg/wipe
392103789-0009					

(b) (6)

Jeff Siria, Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Analysis following Lead in Dust by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. Ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. The lab is not responsible for data reported in ug/ft2 which is dependent upon the area provided by non-lab pesonnel. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request. Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO AlHA-LAP, LLC-ELLAP Accredited #102636

Initial report from 04/15/2021 18:45:58