February 24, 2022

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 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 data center of the second floor 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 ongoing sampling data to monitor conditions at the site. This report serves as an addendum to the Goodfellow Federal Center – Building 104 Air and Wipe Sampling Evaluation, dated February 16, 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.
Diane Czarnecki  
Facilities Management Division  
February 24, 2022  
Page 2

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 sample(s) were collected on January 26, 2022 and February 11, 2022, by Emily Pulcher of Burns & McDonnell.

Two (2) air samples were collected on January 26, 2022. One (1) sample was collected on the 2nd floor data center in storage room 5, on a shelf located at column C15. One (1) sample was collected in server room 4, on top of a box located at column D13. All analytes were below laboratory reporting limits. The complete air sampling laboratory reports from EHS are included as Appendix A.

Four (4) wipe samples were collected on January 26, 2022. The sample locations and results are listed below. The complete wipe sampling laboratory report from EHS is included in Appendix B.

- **2nd floor, data center, storage room 5, 2nd shelf at column C15**
  - Arsenic, cadmium, chromium, selenium, and silver were all below laboratory reporting limits
  - Barium was detected at 7.7 micrograms per square foot (µg/sq. ft), below the clean area limit of 3,094 µg/sq. ft
  - Lead was detected at 1.4 µg/sq. ft, below the clean area limit of 10 µg/sq. ft
• 2nd floor, data center, storage room 5, top of left handrail
  o Arsenic, cadmium, chromium, selenium, and silver were all below laboratory reporting limits
  o Barium was detected at 0.72 µg/sq. ft, below the clean area limit of 3,094 µg/sq. ft
  o Lead was detected at 0.81 µg/sq. ft, below the clean area limit of 10 µg/sq. ft

• 2nd floor, data center, server room 4, top of desk at column B12
  o Arsenic, cadmium, chromium, selenium, and silver were all below laboratory reporting limits
  o Barium was detected at 3.2 µg/sq. ft, below the clean area limit of 3,094 µg/sq. ft
  o Lead was detected at 3.6 µg/sq. ft, below the clean area limit of 10 µg/sq. ft

• 2nd floor, data center, entrance lobby office, top of desk by window
  o Arsenic, cadmium, selenium, and silver were all below laboratory reporting limits
  o Barium was detected at 1.6 µg/sq. ft, below the clean area limit of 3,094 µg/sq. ft
  o Chromium was detected at 2.2 µg/sq. ft, below the clean area limit of 3,094 µg/sq. ft
  o Lead was detected at 0.64 µg/sq. ft, below the clean area limit of 10 µg/sq. ft

One (1) air sample was collected on February 11, 2022 from the 2nd floor data center, room 2 on a desk at column B10. All analytes were below laboratory reporting limits. The complete air sampling laboratory reports from EHS are included as Appendix A.

Two (2) wipe samples were collected on February 11, 2022. The sample locations and results are listed below. The complete wipe sampling laboratory report from EHS is included in Appendix B.
• 2nd floor, data center, room 2, top of desk at column B10
  o Arsenic, cadmium, chromium, selenium, and silver were all below laboratory reporting limits
  o Barium was detected at 1.6 µg/sq. ft, below the clean area limit of 3,094 µg/sq. ft
  o Lead was detected at 2.7 µg/sq. ft, below the clean area limit of 10 µg/sq. ft

• 2nd floor, data center, room 2, workstation at column D10
  o Arsenic, cadmium, selenium, and silver were all below laboratory reporting limits
  o Barium was detected at 3.1 µg/sq. ft, below the clean area limit of 3,094 µg/sq. ft
  o Chromium was detected at 1.6 µg/sq. ft, below the clean area limit of 3,094 µg/sq. ft
  o Lead was detected at 12 µg/sq. ft, exceeding the clean area limit of 10 µg/sq. ft

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 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 – Air Sampling Laboratory Reports
  Appendix B – Wipe Sampling Laboratory Reports

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 REPORTS
## Laboratory Results

<table>
<thead>
<tr>
<th>Lab Sample Number</th>
<th>Client Sample Number</th>
<th>Analyzed Date</th>
<th>Analyte</th>
<th>Air Volume (L)</th>
<th>Total Metal (ug)</th>
<th>Concentration (ug/m³)</th>
<th>Narrative ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>22-01-04026-001</td>
<td>104-A-01</td>
<td>02/18/2022</td>
<td>Arsenic (As)</td>
<td>668</td>
<td>&lt;0.15</td>
<td>&lt;0.23</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Barium (Ba)</td>
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<td>&lt;0.23</td>
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<tr>
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<td>Cadmium (Cd)</td>
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<td>&lt;0.045</td>
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<tr>
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<td></td>
<td>Chromium (Cr)</td>
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<td>&lt;1.2</td>
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<tr>
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<tr>
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<td></td>
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<td>&lt;1.2</td>
<td></td>
</tr>
<tr>
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<td></td>
<td>Silver (Ag)</td>
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<td>Barium (Ba)</td>
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<td>&lt;0.23</td>
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<td></td>
<td>Cadmium (Cd)</td>
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<td>&lt;0.030</td>
<td>&lt;0.045</td>
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<tr>
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<td>Chromium (Cr)</td>
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<td>Lead (Pb)</td>
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<td>&lt;0.23</td>
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<tr>
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<td>Selenium (Se)</td>
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<td>&lt;1.2</td>
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<td>Silver (Ag)</td>
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<td>Barium (Ba)</td>
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<td>&lt;0.15</td>
<td>---</td>
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<tr>
<td></td>
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<td></td>
<td>Cadmium (Cd)</td>
<td></td>
<td>&lt;0.030</td>
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<td></td>
</tr>
</tbody>
</table>
Chromium (Cr) --- <0.75
Lead (Pb) --- <0.15
Selenium (Se) --- <0.75
Silver (Ag) --- <0.15

Sample Narratives:

Method: NIOSH 7300M
Analyst: Ailea Cabatbat

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. NY ELAP #11714.
## ENVIRONMENTAL HAZARDS SERVICES, LLC
### Metals Chain of Custody Form

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Burns &amp; McDonnell</th>
<th>Account #</th>
<th>26-3514</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Address</td>
<td>9400 Ward Parkway</td>
<td>City/State/Zip</td>
<td>Kansas City, MO 64114</td>
</tr>
<tr>
<td>Phone</td>
<td>314-302-4661</td>
<td>Email</td>
<td><a href="mailto:eaahlemeyer@burnsmcd.com">eaahlemeyer@burnsmcd.com</a></td>
</tr>
<tr>
<td>Project Name / Testing Address</td>
<td>GFC / 4300 Goodfellow Blvd</td>
<td>PO Number</td>
<td>168765</td>
</tr>
</tbody>
</table>

**Collection Information**

<table>
<thead>
<tr>
<th>Client Sample ID</th>
<th>Collection Date &amp; Time</th>
<th>METALS</th>
<th>PARTICULATES</th>
<th>AIR</th>
<th>WIPES</th>
</tr>
</thead>
<tbody>
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<td>257 2.0</td>
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<td></td>
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<td></td>
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<td></td>
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<td>x</td>
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</table>

**Laboratory Information**

- **LAB NUMBER**: 168765
- **LAB USE ONLY – BELOW THIS LINE**

- **Signed**: Emily Pulcher
- **Date**: 12/8/22
- **Time**: 1600

**Received Information**

- **Signature**: [Redacted]
- **Date**: 12/8/22
- **Time**: 12:15 PM

**Portal Contact Information**

- 7469 WHITEPINE RD, RICHMOND, VA 23237 (800)-347-4010
- RESULTS VIA CLIENT PORTAL AVAILABLE @ www.leadlab.com

**Due Date**: 02/04/2022
**(Friday)**
**EL**: MM-L
Client: Burns & McDonnell Engineering  
9400 Ward Pkwy.  
Kansas City, MO 64114

Project/Test Address: 168765; GFC; 4300 Goodfellow Blvd.

Client Number: 26-3514

<table>
<thead>
<tr>
<th>Lab Sample Number</th>
<th>Client Sample Number</th>
<th>Analyzed Date</th>
<th>Analyte</th>
<th>Air Volume (L)</th>
<th>Total Metal (ug)</th>
<th>Concentration (ug/m³)</th>
<th>Narrative ID</th>
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</thead>
<tbody>
<tr>
<td>22-02-02233-001</td>
<td>104-A-01</td>
<td>02/18/2022</td>
<td>Arsenic (As)</td>
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<td>&lt;0.21</td>
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<tr>
<td></td>
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<td>Barium (Ba)</td>
<td></td>
<td>&lt;0.15</td>
<td>&lt;0.21</td>
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<tr>
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<td>Cadmium (Cd)</td>
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<td>&lt;0.042</td>
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<tr>
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<td>Chromium (Cr)</td>
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<td>&lt;0.75</td>
<td>&lt;1.1</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Lead (Pb)</td>
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<td>&lt;0.21</td>
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<tr>
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<td>Selenium (Se)</td>
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<td>&lt;1.1</td>
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<tr>
<td></td>
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<td>Silver (Ag)</td>
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</table>
Environmental Hazards Services, L.L.C

Client Number: 26-3514
Project/Test Address: 168765; GFC; 4300 Goodfellow Blvd.

Report Number: 22-02-02233

<table>
<thead>
<tr>
<th>Lab Sample Number</th>
<th>Client Sample Number</th>
<th>Analyzed Date</th>
<th>Analyte</th>
<th>Air Volume (L)</th>
<th>Total Metal (ug)</th>
<th>Concentration (ug/m³)</th>
<th>Narrative ID</th>
</tr>
</thead>
</table>

Sample Narratives:

Method: NIOSH 7300M
Analyst: Ailea Cabatbat

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.

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LEGEND

ug = microgram
ug/m³ = micrograms per cubic meter
mL = milliliter
L = Liters

Page 2 of 2
# Environmental Hazards Services, LLC

## Metals Chain of Custody Form

<table>
<thead>
<tr>
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<th>26-3514</th>
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</thead>
<tbody>
<tr>
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<td>City/State/Zip</td>
<td>Kansas City, MO 64114</td>
</tr>
<tr>
<td>Phone</td>
<td>314-302-4661</td>
<td>Email</td>
<td><a href="mailto:eapulcher@burnsmcd.com">eapulcher@burnsmcd.com</a></td>
</tr>
<tr>
<td>Project Name / Testing Address</td>
<td>GFC / 4300 Goodfellow Blvd</td>
<td>PO Number</td>
<td>168765</td>
</tr>
<tr>
<td>Collected By</td>
<td>Emily Pulcher</td>
<td>Turn-Around Time</td>
<td>☑ 3 DAY</td>
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### METALS

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<th>Vol.</th>
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<td></td>
</tr>
</tbody>
</table>

### PARTICULATES

- Total Suspended Particulate Matter (TSP)
- Respirable Dust
- Total Non-Volatile Organic Materials (TVOM)
- Total Volatile Organic Materials (TVOM)
- PM-10

### AIR

- Min.
- L/min.
- Total Liters

### WIPES

- NA

### Released By

Emily Pulcher

Date: 2/11/22

Time: 1600

---

**Received By:** Stone

Signature: 

Date: 2/14/22

Time: 1:35

Portal Contact Added: 

7469 WHITETINE RD, RICHMOND, VA 23237 (800)-437-4010

RESULTS VIA CLIENT PORTAL AVAILABLE @ www.leadlab.com
APPENDIX B – WIPE SAMPLING LABORATORY REPORTS
Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

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

Project/Test Address: 168765; GFC; 4300 Goodfellow Blvd

Laboratory Results

<table>
<thead>
<tr>
<th>Lab Sample Number</th>
<th>Client Sample Number</th>
<th>Analyte:</th>
<th>Wipe Area (ft²)</th>
<th>Total Metal (ug)</th>
<th>Concentration (ug/ft²)</th>
<th>Narrative ID</th>
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<tr>
<td>22-01-04029-001</td>
<td>104-W-01</td>
<td>Arsenic (As)</td>
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### Analyte

#### Lead (Pb)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-05
- **Wipe Area (ft²)**: 1.00
- **Total Metal (ug)**: 0.64
- **Concentration (ug/ft²)**: 0.64
- **Narrative ID**: L01

#### Selenium (Se)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-05
- **Wipe Area (ft²)**: 1.00
- **Total Metal (ug)**: <2.50
- **Concentration (ug/ft²)**: <2.5
- **Narrative ID**: L01

#### Silver (Ag)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-05
- **Wipe Area (ft²)**: 1.00
- **Total Metal (ug)**: <0.50
- **Concentration (ug/ft²)**: <0.50
- **Narrative ID**: L01

#### Arsenic (As)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-05
- **Wipe Area (ft²)**: <2.50
- **Concentration (ug/ft²)**: L01

#### Barium (Ba)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-05
- **Wipe Area (ft²)**: <0.50
- **Concentration (ug/ft²)**: L01

#### Cadmium (Cd)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-05
- **Wipe Area (ft²)**: <0.10
- **Concentration (ug/ft²)**: L01

#### Chromium (Cr)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-05
- **Wipe Area (ft²)**: <1.00
- **Concentration (ug/ft²)**: L01

#### Lead (Pb)
- **Lab Sample Number**: 22-01-04029-003
- **Client Sample Number**: 104-W-03
- **Wipe Area (ft²)**: 1.00
- **Total Metal (ug)**: 0.810
- **Concentration (ug/ft²)**: 0.81
- **Narrative ID**: L01

#### Selenium (Se)
- **Lab Sample Number**: 22-01-04029-003
- **Client Sample Number**: 104-W-03
- **Wipe Area (ft²)**: <2.50
- **Concentration (ug/ft²)**: <2.5
- **Narrative ID**: L01

#### Silver (Ag)
- **Lab Sample Number**: 22-01-04029-003
- **Client Sample Number**: 104-W-03
- **Wipe Area (ft²)**: <0.50
- **Concentration (ug/ft²)**: <0.50
- **Narrative ID**: L01

#### Arsenic (As)
- **Lab Sample Number**: 22-01-04029-003
- **Client Sample Number**: 104-W-03
- **Wipe Area (ft²)**: <2.50
- **Concentration (ug/ft²)**: <2.5
- **Narrative ID**: L01

#### Barium (Ba)
- **Lab Sample Number**: 22-01-04029-003
- **Client Sample Number**: 104-W-03
- **Wipe Area (ft²)**: <0.50
- **Concentration (ug/ft²)**: <0.50
- **Narrative ID**: L01

#### Cadmium (Cd)
- **Lab Sample Number**: 22-01-04029-003
- **Client Sample Number**: 104-W-03
- **Wipe Area (ft²)**: <0.10
- **Concentration (ug/ft²)**: <0.10
- **Narrative ID**: L01

#### Chromium (Cr)
- **Lab Sample Number**: 22-01-04029-003
- **Client Sample Number**: 104-W-03
- **Wipe Area (ft²)**: <1.00
- **Concentration (ug/ft²)**: L01

#### Lead (Pb)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-04
- **Wipe Area (ft²)**: 1.00
- **Total Metal (ug)**: 3.6
- **Concentration (ug/ft²)**: 3.6
- **Narrative ID**: L01

#### Selenium (Se)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-04
- **Wipe Area (ft²)**: <2.50
- **Concentration (ug/ft²)**: <2.5
- **Narrative ID**: L01

#### Silver (Ag)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-04
- **Wipe Area (ft²)**: <0.50
- **Concentration (ug/ft²)**: <0.50
- **Narrative ID**: L01

#### Arsenic (As)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-04
- **Wipe Area (ft²)**: <2.50
- **Concentration (ug/ft²)**: <2.5
- **Narrative ID**: L01

#### Barium (Ba)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-04
- **Wipe Area (ft²)**: <0.10
- **Concentration (ug/ft²)**: <0.10
- **Narrative ID**: L01

#### Cadmium (Cd)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-04
- **Wipe Area (ft²)**: 2.24
- **Concentration (ug/ft²)**: 2.2
- **Narrative ID**: L01

#### Chromium (Cr)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-04
- **Wipe Area (ft²)**: 0.635
- **Concentration (ug/ft²)**: 0.64
- **Narrative ID**: L01

#### Lead (Pb)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-04
- **Wipe Area (ft²)**: <2.50
- **Concentration (ug/ft²)**: L01

#### Selenium (Se)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-04
- **Wipe Area (ft²)**: <0.50
- **Concentration (ug/ft²)**: <0.50
- **Narrative ID**: L01

#### Silver (Ag)
- **Lab Sample Number**: 22-01-04029-004
- **Client Sample Number**: 104-W-04
- **Wipe Area (ft²)**: <0.50
- **Concentration (ug/ft²)**: <0.50
- **Narrative ID**: L01

---

Page  2 of 3
### Sample Results

**Lab Sample Number** | **Client Sample Number** | **Analyte** | **Wipe Area (ft²)** | **Total Metal (ug)** | **Concentration (ug/ft²)** | **Narrative ID**
--- | --- | --- | --- | --- | --- | ---
Lab Sample Number | Client Sample Number | Analyte: | Wipe Area (ft²) | Total Metal (ug) | Concentration (ug/ft²) | Narrative ID
--- | --- | --- | --- | --- | --- | ---
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

### Sample Narratives:

**L01:** MB for Se exceeded acceptance limit.

---

**Analyst:** Ailea Cabatbat

**Method:**
- Mercury (Hg): EPA SW846 7471B
- All other metals: EPA SW846 3050B/6010D

---

**Reviewed By Authorized Signatory:**

Melissa Kanode
QA/QC Clerk

---

Sample Results denoted with a “less than” (<) sign contains less than the reporting limit for each particular metal, based on a 50mL volume. The reporting limit for Cadmium is 0.10ug, Barium, Lead and Silver are 0.50ug, Arsenic and Chromium are 1.0ug, and Selenium is 2.5ug.

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. NY ELAP #11714.

---

**Legend**
- ug = microgram
- ug/ft² = micrograms per square foot
- mL = milliliter
- ft² = square foot
# Environmental Hazards Services, LLC

## Metals Chain of Custody Form

**Company Name:** Burns & McDonnell  
**Account #:** 26-3514  
**Company Address:** 9400 Ward Parkway  
**City/State/Zip:** Kansas City, MO 64114  
**Phone:** 314-302-4661  
**Email:** eaahlemeyer@burnsmcd.com

**Project Name / Testing Address:** GFC / 4300 Goodfellow Blvd  
**PO Number:** 168765  
**Collected By:** Emily Pulcher  
**Turn-Around Time:** ☑ SAME DAY OR WEEKEND - Must Call Ahead

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<th>LAB NUMBER</th>
<th>Client Sample ID</th>
<th>Collection Date &amp; Time</th>
<th>Pb TCLP</th>
<th>TCLP/RCRA 8</th>
<th>Toxic Metal Profile</th>
<th>Welding Fume Profile</th>
<th>CA 17 Total</th>
<th>Other Metals</th>
<th>PARTICULATES</th>
<th>TSP Gravimetric</th>
<th>TSP Pb</th>
<th>PM-10</th>
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**Released By:** Emily Pulcher  
**Date:** 1/24/22  
**Time:** 12:00

**Area:** Circle The Unit of Measurement Used  
- cm or
- ft

**LAB USE ONLY – BELOW THIS LINE**

**Received By:**  
**Signature:**

**Date:** 1/28/22  
**Time:** 12:15  
**AM**  
**PM**

**Portal Contact Added**  
- 7469 WHITEPINE RD, RICHMOND, VA 23237  
  (800)-347-4010
- RESULTS VIA CLIENT PORTAL AVAILABLE @ www.leadlab.com

**Due Date:** 02/04/2022  
**(Friday)**  
**EL**  
**MM-L**

---

**COMMENTS:**

- 22-01-04029
# Laboratory Results

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<tr>
<th>Lab Sample Number</th>
<th>Client Sample Number</th>
<th>Analyte:</th>
<th>Wipe Area (ft²)</th>
<th>Total Metal (ug)</th>
<th>Concentration (ug/ft²)</th>
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### Sample Narratives:

- **L01:** LCS and LCSD percent recoveries for Se were outside of acceptable control limits.

**Analyst:** Ailea Cabatbat  
**Method:**  
- Mercury (Hg): EPA SW846 7471B  
- All other metals: EPA SW846 3050B/6010D

**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 50mL volume. The reporting limit for Cadmium is 0.10ug, Barium, Lead and Silver are 0.50ug, Arsenic and Chromium are 1.0ug, and Selenium is 2.5ug.

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### Legend

- ug = microgram  
- ug/ft² = micrograms per square foot  
- mL = milliliter  
- ft² = square foot
<table>
<thead>
<tr>
<th>Client Sample ID</th>
<th>Collection Date &amp; Time</th>
<th>METALS</th>
<th>PARTICULATES</th>
<th>AIR</th>
<th>WIPES</th>
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Released By: Emily Pulcher  
Date: 2/11/22  
Time: 1600

Signatures:

Received By: Stone  
Signature: (b) (6)

Date: 2/14/22  
Time: 1:35  
AM

Portal Contact Added

7469 WHITEPINE RD, RICHMOND, VA 23237  (800)-347-4010
RESULTS VIA CLIENT PORTAL AVAILABLE @ www.leadlab.com

22-02-02234  
Due Date: 02/17/2022  
(Thursday)  
EL MM-L