



January 11, 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 – Bldg. 104 Air Sampling
Project No. 121244

Dear Ms. Czarnecki:

Thank you for the opportunity to provide the General Services Administration (GSA) with the Resource Conservation and Recovery Act (RCRA) metals air sampling investigation of the above referenced building located at the Goodfellow Federal Complex, in St. Louis, Missouri. Burns & McDonnell understands that the purpose of the investigation was to provide sampling data regarding existing conditions to supplement previous investigation reports prepared for the facility. The following report summarizes air-sample collection activities and the laboratory analytical results of the samples submitted.

METHODOLOGY

On December 7, 2021, Emily Pulcher and Jeff Smith of Burns & McDonnell and OCCU-TEC conducted area air-sampling for the presence of seven (7) of the RCRA metals including arsenic, barium, cadmium, chromium, lead, selenium, and silver. Sampling was conducted in various locations throughout Building 104.

The sampling plan, number of samples, sample distribution, and general methodology was developed based on previous investigation methodology and in coordination with the GSA. Sample locations and samples collected from discretionary locations were determined by sampling personnel while on-site.

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. Air samples were submitted under chain-of-custody to Environmental Hazards Services, LLC (EHS) in Richmond, Virginia for independent analysis of 7 RCRA metals according to NIOSH method 7300. EHS is accredited under the American Industrial Hygiene Association (AIHA) Industrial Hygiene Laboratory Accreditation Program (IHLAP) program, identification number LAP-100420.

Diane Czarnecki
 Facilities Management Division
 January 11, 2022
 Page 2

RESULTS AND DISCUSSION

Results of the air sampling are summarized in the table below by identifying the range of results for Building 104 for each of the seven (7) metals that were sampled. Results indicate that all 18 air samples collected from Building 104 and analyzed for RCRA metals were below their respective OSHA Permissible Exposure Limit (PEL), as based on a time-weighted-average.

Table 1. Summary of Air Sampling Results

Analyte	Lowest Concentration ^(a) ($\mu\text{g}/\text{m}^3$) ^(b)	Highest Concentration ^(a) ($\mu\text{g}/\text{m}^3$) ^(b)	Permissible Exposure Limit (PEL) ($\mu\text{g}/\text{m}^3$) ^(b)
Arsenic	<0.18	<0.29	10
Barium	<0.18	<0.29	500
Cadmium	<0.035	<0.057	5
Chromium (Total)	<0.9	<1.5	500
Lead	<0.18	<0.29	50
Selenium	<0.9	<1.5	200
Silver	<0.18	<0.29	10

Notes:

- (a) Samples with a “<” sign indicate that the results were below the laboratory’s reporting limit, which varies based on sample air volume.
- (b) $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter of air.

GSA may choose to compare results with guidance limits from additional organizations for risk evaluation, including but not limited to the American Conference of Governmental Industrial Hygienists (ACGIH) and/or the World Health Organization (WHO).

A summary table of all sampling results by location is included in Appendix A. The complete laboratory report for the air sampling from EHS is attached in Appendix B.

LIMITATIONS

The scope of this assessment was limited as follows. Burns & McDonnell 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. Sample locations do not encompass every indoor space at the site. Additionally, based on previous sampling history, samples were only analyzed for a select number of potential contaminants likely to affect the air quality at the site. Burns &



Diane Czarnecki
Facilities Management Division
January 11, 2022
Page 3

McDonnell is not responsible for potential contaminants not identified in this report. This report was prepared for the sole use of GSA.

Burns & McDonnell appreciates the opportunity to work with the General Services Administration 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)

A large black rectangular redaction box covers the signature area, with the text "(b) (6)" in red at the top left corner.

Matt Shanahan, CHMM
Project Manager

Attachments:

- Appendix A – Results Summary by Location
- Appendix B – Air Sample Laboratory Report

Information in Appendices A and 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 – RESULTS SUMMARY BY LOCATION

Appendix A
Results Summary by Location

Sample Number	Location	Analyte	Result	Units	Recommended Limits ¹
104-A-01	2nd floor, SW vending area, column J34	Arsenic	< 0.18	µg/m ³	10
		Barium	< 0.18	µg/m ³	500
		Cadmium	< 0.036	µg/m ³	5
		Chromium	< 0.88	µg/m ³	500
		Lead	< 0.18	µg/m ³	50
		Selenium	< 0.88	µg/m ³	200
		Silver	< 0.18	µg/m ³	10
104-A-02	2nd floor, desk, column E37	Arsenic	< 0.18	µg/m ³	10
		Barium	< 0.18	µg/m ³	500
		Cadmium	< 0.036	µg/m ³	5
		Chromium	< 0.88	µg/m ³	500
		Lead	< 0.18	µg/m ³	50
		Selenium	< 0.88	µg/m ³	200
		Silver	< 0.18	µg/m ³	10
104-A-03	2nd floor, desk, column H40	Arsenic	< 0.18	µg/m ³	10
		Barium	< 0.18	µg/m ³	500
		Cadmium	< 0.035	µg/m ³	5
		Chromium	< 0.88	µg/m ³	500
		Lead	< 0.18	µg/m ³	50
		Selenium	< 0.88	µg/m ³	200
		Silver	< 0.18	µg/m ³	10
104-A-04	2nd floor, Limestone Lounge, island, column C44	Arsenic	< 0.18	µg/m ³	10
		Barium	< 0.18	µg/m ³	500
		Cadmium	< 0.035	µg/m ³	5
		Chromium	< 0.87	µg/m ³	500
		Lead	< 0.18	µg/m ³	50
		Selenium	< 0.87	µg/m ³	200
		Silver	< 0.18	µg/m ³	10
104-A-05	2nd floor, Plateau conference room table, column G49	Arsenic	< 0.18	µg/m ³	10
		Barium	< 0.18	µg/m ³	500
		Cadmium	< 0.035	µg/m ³	5
		Chromium	< 0.88	µg/m ³	500
		Lead	< 0.18	µg/m ³	50
		Selenium	< 0.88	µg/m ³	200
		Silver	< 0.18	µg/m ³	10

Appendix A
Results Summary by Location

Sample Number	Location	Analyte	Result	Units	Recommended Limits ¹
104-A-06	2nd floor, Cove huddle room table, column G52	Arsenic	< 0.18	µg/m ³	10
		Barium	< 0.18	µg/m ³	500
		Cadmium	< 0.036	µg/m ³	5
		Chromium	< 0.89	µg/m ³	500
		Lead	< 0.18	µg/m ³	50
		Selenium	< 0.89	µg/m ³	200
		Silver	< 0.18	µg/m ³	10
104-A-07	2nd floor, southeast hallway, column B41	Arsenic	< 0.18	µg/m ³	10
		Barium	< 0.18	µg/m ³	500
		Cadmium	< 0.036	µg/m ³	5
		Chromium	< 0.89	µg/m ³	500
		Lead	< 0.18	µg/m ³	50
		Selenium	< 0.89	µg/m ³	200
		Silver	< 0.18	µg/m ³	10
104-A-08	2nd floor, Hidden Valley break room, column B31	Arsenic	< 0.22	µg/m ³	10
		Barium	< 0.22	µg/m ³	500
		Cadmium	< 0.044	µg/m ³	5
		Chromium	< 1.1	µg/m ³	500
		Lead	< 0.22	µg/m ³	50
		Selenium	< 1.1	µg/m ³	200
		Silver	< 0.22	µg/m ³	10
104-A-09	2nd floor, desk, column D28	Arsenic	< 0.23	µg/m ³	10
		Barium	< 0.23	µg/m ³	500
		Cadmium	< 0.046	µg/m ³	5
		Chromium	< 1.2	µg/m ³	500
		Lead	< 0.23	µg/m ³	50
		Selenium	< 1.2	µg/m ³	200
		Silver	< 0.23	µg/m ³	10
104-A-10	2nd floor, break room table, column D24	Arsenic	< 0.24	µg/m ³	10
		Barium	< 0.24	µg/m ³	500
		Cadmium	< 0.047	µg/m ³	5
		Chromium	< 1.2	µg/m ³	500
		Lead	< 0.24	µg/m ³	50
		Selenium	< 1.2	µg/m ³	200
		Silver	< 0.24	µg/m ³	10

Appendix A
Results Summary by Location

Sample Number	Location	Analyte	Result	Units	Recommended Limits ¹
104-A-11	2nd floor, print shop, top of shelf, column D30	Arsenic	< 0.27	µg/m ³	10
		Barium	< 0.27	µg/m ³	500
		Cadmium	< 0.053	µg/m ³	5
		Chromium	< 1.4	µg/m ³	500
		Lead	< 0.27	µg/m ³	50
		Selenium	< 1.4	µg/m ³	200
		Silver	< 0.27	µg/m ³	10
104-A-12	2nd floor, table on east wall, column G30	Arsenic	< 0.24	µg/m ³	10
		Barium	< 0.24	µg/m ³	500
		Cadmium	< 0.048	µg/m ³	5
		Chromium	< 1.2	µg/m ³	500
		Lead	< 0.24	µg/m ³	50
		Selenium	< 1.2	µg/m ³	200
		Silver	< 0.24	µg/m ³	10
104-A-13	2nd floor, side table, column H13	Arsenic	< 0.25	µg/m ³	10
		Barium	< 0.25	µg/m ³	500
		Cadmium	< 0.049	µg/m ³	5
		Chromium	< 1.3	µg/m ³	500
		Lead	< 0.25	µg/m ³	50
		Selenium	< 1.3	µg/m ³	200
		Silver	< 0.25	µg/m ³	10
104-A-14	2nd floor, break room table, column B19	Arsenic	< 0.29	µg/m ³	10
		Barium	< 0.29	µg/m ³	500
		Cadmium	< 0.057	µg/m ³	5
		Chromium	< 1.5	µg/m ³	500
		Lead	< 0.29	µg/m ³	50
		Selenium	< 1.5	µg/m ³	200
		Silver	< 0.29	µg/m ³	10
104-A-15	2nd floor, data center, storage room, column D16	Arsenic	< 0.27	µg/m ³	10
		Barium	< 0.27	µg/m ³	500
		Cadmium	< 0.054	µg/m ³	5
		Chromium	< 1.4	µg/m ³	500
		Lead	< 0.27	µg/m ³	50
		Selenium	< 1.4	µg/m ³	200
		Silver	< 0.27	µg/m ³	10

Appendix A
Results Summary by Location

Sample Number	Location	Analyte	Result	Units	Recommended Limits ¹
104-A-16	Field blank	Arsenic	< 0.15	µg	--
		Barium	< 0.15	µg	--
		Cadmium	< 0.030	µg	--
		Chromium	< 0.75	µg	--
		Lead	< 0.15	µg	--
		Selenium	< 0.75	µg	--
		Silver	< 0.15	µg	--
104-A-17	2nd floor, data center, server room, column C9	Arsenic	< 0.27	µg/m ³	10
		Barium	< 0.27	µg/m ³	500
		Cadmium	< 0.053	µg/m ³	5
		Chromium	< 1.4	µg/m ³	500
		Lead	< 0.27	µg/m ³	50
		Selenium	< 1.4	µg/m ³	200
		Silver	< 0.27	µg/m ³	10
104-A-18	2nd floor, data center, office area, column C3	Arsenic	< 0.28	µg/m ³	10
		Barium	< 0.28	µg/m ³	500
		Cadmium	< 0.056	µg/m ³	5
		Chromium	< 1.4	µg/m ³	500
		Lead	< 0.28	µg/m ³	50
		Selenium	< 1.4	µg/m ³	200
		Silver	< 0.28	µg/m ³	10

Notes:

¹Limits equal to the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs)

APPENDIX B – AIR SAMPLE LABORATORY REPORT



Environmental Hazards Services, L.L.C.
 7469 Whitepine Rd
 Richmond, VA 23237
 Telephone: 800.347.4010

Air Metals Analysis Report

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

Report Number: 21-12-01825
 Received Date: 12/13/2021
 Reported Date: 12/20/2021

Project/Test Address: 168765; GFC; 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
21-12-01825-001	104-A-01	12/17/2021	Arsenic (As)	853	<0.15	<0.18	
			Barium (Ba)		<0.15	<0.18	
			Cadmium (Cd)		<0.030	<0.036	
			Chromium (Cr)		<0.75	<0.88	
			Lead (Pb)		<0.15	<0.18	
			Selenium (Se)		<0.75	<0.88	
			Silver (Ag)		<0.15	<0.18	
21-12-01825-002	104-A-02	12/17/2021	Arsenic (As)	855	<0.15	<0.18	
			Barium (Ba)		<0.15	<0.18	
			Cadmium (Cd)		<0.030	<0.036	
			Chromium (Cr)		<0.75	<0.88	
			Lead (Pb)		<0.15	<0.18	
			Selenium (Se)		<0.75	<0.88	
			Silver (Ag)		<0.15	<0.18	
21-12-01825-003	104-A-03	12/17/2021	Arsenic (As)	861	<0.15	<0.18	
			Barium (Ba)		<0.15	<0.18	
			Cadmium (Cd)		<0.030	<0.035	

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 21-12-01825

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

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m ³)	Narrative ID
			Chromium (Cr)		<0.75	<0.88	
			Lead (Pb)		<0.15	<0.18	
			Selenium (Se)		<0.75	<0.88	
			Silver (Ag)		<0.15	<0.18	
21-12-01825-004	104-A-04	12/17/2021	Arsenic (As)	863	<0.15	<0.18	
			Barium (Ba)		<0.15	<0.18	
			Cadmium (Cd)		<0.030	<0.035	
			Chromium (Cr)		<0.75	<0.87	
			Lead (Pb)		<0.15	<0.18	
			Selenium (Se)		<0.75	<0.87	
			Silver (Ag)		<0.15	<0.18	
21-12-01825-005	104-A-05	12/17/2021	Arsenic (As)	860	<0.15	<0.18	
			Barium (Ba)		<0.15	<0.18	
			Cadmium (Cd)		<0.030	<0.035	
			Chromium (Cr)		<0.75	<0.88	
			Lead (Pb)		<0.15	<0.18	
			Selenium (Se)		<0.75	<0.88	
			Silver (Ag)		<0.15	<0.18	
21-12-01825-006	104-A-06	12/17/2021	Arsenic (As)	848	<0.15	<0.18	
			Barium (Ba)		<0.15	<0.18	
			Cadmium (Cd)		<0.030	<0.036	
			Chromium (Cr)		<0.75	<0.89	
			Lead (Pb)		<0.15	<0.18	
			Selenium (Se)		<0.75	<0.89	
			Silver (Ag)		<0.15	<0.18	

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 21-12-01825

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

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m ³)	Narrative ID
21-12-01825-007	104-A-07	12/17/2021	Arsenic (As)	851	<0.15	<0.18	
			Barium (Ba)		<0.15	<0.18	
			Cadmium (Cd)		<0.030	<0.036	
			Chromium (Cr)		<0.75	<0.89	
			Lead (Pb)		<0.15	<0.18	
			Selenium (Se)		<0.75	<0.89	
			Silver (Ag)		<0.15	<0.18	
21-12-01825-008	104-A-08	12/17/2021	Arsenic (As)	686	<0.15	<0.22	
			Barium (Ba)		<0.15	<0.22	
			Cadmium (Cd)		<0.030	<0.044	
			Chromium (Cr)		<0.75	<1.1	
			Lead (Pb)		<0.15	<0.22	
			Selenium (Se)		<0.75	<1.1	
			Silver (Ag)		<0.15	<0.22	
21-12-01825-009	104-A-09	12/17/2021	Arsenic (As)	663	<0.15	<0.23	
			Barium (Ba)		<0.15	<0.23	
			Cadmium (Cd)		<0.030	<0.046	
			Chromium (Cr)		<0.75	<1.2	
			Lead (Pb)		<0.15	<0.23	
			Selenium (Se)		<0.75	<1.2	
			Silver (Ag)		<0.15	<0.23	
21-12-01825-010	104-A-10	12/17/2021	Arsenic (As)	651	<0.15	<0.24	
			Barium (Ba)		<0.15	<0.24	
			Cadmium (Cd)		<0.030	<0.047	
			Chromium (Cr)		<0.75	<1.2	

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 21-12-01825

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

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m ³)	Narrative ID
			Lead (Pb)		<0.15	<0.24	
			Selenium (Se)		<0.75	<1.2	
			Silver (Ag)		<0.15	<0.24	
21-12-01825-011	104-A-11	12/17/2021	Arsenic (As)	575	<0.15	<0.27	
			Barium (Ba)		<0.15	<0.27	
			Cadmium (Cd)		<0.030	<0.053	
			Chromium (Cr)		<0.75	<1.4	
			Lead (Pb)		<0.15	<0.27	
			Selenium (Se)		<0.75	<1.4	
			Silver (Ag)		<0.15	<0.27	
21-12-01825-012	104-A-12	12/17/2021	Arsenic (As)	634	<0.15	<0.24	
			Barium (Ba)		<0.15	<0.24	
			Cadmium (Cd)		<0.030	<0.048	
			Chromium (Cr)		<0.75	<1.2	
			Lead (Pb)		<0.15	<0.24	
			Selenium (Se)		<0.75	<1.2	
			Silver (Ag)		<0.15	<0.24	
21-12-01825-013	104-A-13	12/17/2021	Arsenic (As)	620	<0.15	<0.25	
			Barium (Ba)		<0.15	<0.25	
			Cadmium (Cd)		<0.030	<0.049	
			Chromium (Cr)		<0.75	<1.3	
			Lead (Pb)		<0.15	<0.25	
			Selenium (Se)		<0.75	<1.3	
			Silver (Ag)		<0.15	<0.25	
21-12-01825-014	104-A-14	12/17/2021	Arsenic (As)	534	<0.15	<0.29	

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 21-12-01825

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

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m ³)	Narrative ID
			Barium (Ba)		<0.15	<0.29	
			Cadmium (Cd)		<0.030	<0.057	
			Chromium (Cr)		<0.75	<1.5	
			Lead (Pb)		<0.15	<0.29	
			Selenium (Se)		<0.75	<1.5	
			Silver (Ag)		<0.15	<0.29	
21-12-01825-015	104-A-15	12/17/2021	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	
21-12-01825-016	104-A-16	12/17/2021	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	---	
21-12-01825-017	104-A-17	12/17/2021	Arsenic (As)	575	<0.15	<0.27	
			Barium (Ba)		<0.15	<0.27	
			Cadmium (Cd)		<0.030	<0.053	
			Chromium (Cr)		<0.75	<1.4	
			Lead (Pb)		<0.15	<0.27	

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 21-12-01825

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

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m ³)	Narrative ID
			Selenium (Se)		<0.75	<1.4	
			Silver (Ag)		<0.15	<0.27	
21-12-01825-018	104-A-18	12/17/2021	Arsenic (As)	543	<0.15	<0.28	
			Barium (Ba)		<0.15	<0.28	
			Cadmium (Cd)		<0.030	<0.056	
			Chromium (Cr)		<0.75	<1.4	
			Lead (Pb)		<0.15	<0.28	
			Selenium (Se)		<0.75	<1.4	
			Silver (Ag)		<0.15	<0.28	

Sample Narratives:

Method: NIOSH 7300M
 Analyst: Kailee Guthrie

(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 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.

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

ENVIRONMENTAL HAZARDS SERVICES, LLC

Metals Chain of Custody Form

Pg 1 of 2

Company Name	Burns & McDonnell	Account #	26-3514
Company Address	9400 Ward Parkway	City/State/Zip	Kansas City, MO 64114
Phone	314-302-4661	Email	eapulcher@burnsmcd.com
Project Name / Testing Address: GFC / 4300 Goodfellow Blvd			
PO Number	168765	Collected By	Emily Pulcher & Jeff Smith
Turn-Around Time	<input checked="" type="radio"/> 5 DAY <input type="radio"/> 3 DAY <input type="radio"/> 2 DAY <input type="radio"/> 1 DAY <input type="radio"/> SAME DAY OR WEEKEND - Must Call Ahead		

LAB NUMBER	Client Sample ID	Collection Date & Time	METALS						Other Metals	PARTICULATES					AIR			WIPES AREA Circle The Unit of Measurement Used cm or in
			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 Mins.	Flow Rate L/min.	
1	104-A-01	12/7/21 0730							Ag, As, Ba, Cd, Cr, Pb, Se						335	2.4	853	x
2	104-A-02	0731													340	2.5	855	x
3	104-A-03	0732													341	2.5	861	x
4	104-A-04	0733													341	2.5	863	x
5	104-A-05	0735													340	2.5	860	x
6	104-A-06	0737													340	2.5	848	x
7	104-A-07	0740													329	2.6	851	x
8	104-A-08	0743													267	2.6	686	x
9	104-A-09	0745													264	2.5	663	x
10	104-A-10	0747													261	2.5	651	x
11	104-A-11	0750													219	2.6	575	x
12	104-A-12	0752													255	2.5	634	x
13	104-A-13	0756													246	2.5	620	x
14	104-A-14	1246													213	2.5	534	x
15	104-A-15	1240													211	2.6	557	x

Released By: Emily Pulcher	Date: 12/9/21	Time: 1600
Signature: (b) (6)		

LAB USE ONLY - BELOW THIS LINE

Received By: Tstone


Signature: (b) (6)

Date: 12/13/21 Time: 12:51 AM PM

Portal Contact Added

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

21-12-01825



Due Date:
12/20/2021
(Monday)
EL MM-L

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		eapulcher@burnsmcd.com		
Project Name / Testing Address		GFC / 4300 Goodfellow Blvd								
PO Number		168765			Collected By		Emily Pulcher & Jeff Smith			
Turn-Around Time		<input checked="" type="radio"/> 5 DAY <input type="radio"/> 3 DAY <input type="radio"/> 2 DAY <input type="radio"/> 1 DAY <input type="radio"/> SAME DAY OR WEEKEND - Must Call Ahead								

LAB NUMBER	Client Sample ID	Collection Date & Time	METALS						Other Metals	PARTICULATES					AIR			WIPES <small>AREA Circle The Unit of Measurement Used cm or in</small>
			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 Mins.	Flow Rate L/min.	
1	104-A-16	12/7/21 0715							Ag, As, Ba, Cd, Cr, Pb, Se						NA	NA	NA	X
2	104-A-17	↓ 0807							↓						223	2.6	575	X
3	104-A-18	↓ 1242													212	2.6	543	X
4																	X	
5																	X	
6																	X	
7																	X	
8																	X	
9																	X	
10																	X	
11																	X	
12																	X	
13																	X	
14																	X	
15																	X	

Released By:	Emily Pulcher	Date:	12/9/21	Time:	1600
Signature:	(b) (6)				

LAB USE ONLY – BELOW THIS LINE

Received By: TS Stone

Signature: (b) (6)

Date: 12/13/21 Time: 12:51 AM PM

Portal Contact Added

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

RESULTS VIA CLIENT PORTAL AVAILABLE @ www.leadlab.com

1825

EHS Laboratories™

Attach Laboratory Label Here