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January 9, 2020

Diane Czarnecki
Industrial Hygienist
Facilities Management Division
GSA Public Buildings Service - Heartland Region
U.S. General Services Administration
2300 Main Street, Kansas City, MO 64108

RE: Goodfellow Federal Center
Metals in Settled Dust Sampling – Building #110
4300 Goodfellow Boulevard
St. Louis, Missouri 63120
OCCU-TEC Project No. 919103

Dear Ms. Czarnecki:

Thank you for the opportunity to assist the General Services Administration (GSA) with the metals in settled dust sampling investigation of Building #110 located at the Goodfellow Federal Center (GFC) in St. Louis, Missouri. OCCU-TEC Inc. (OCCU-TEC) understands that the purpose of the investigation was to provide additional sampling data of existing environmental conditions that are present at GFC that could adversely impact the health and safety of building occupants as well as workers at the facility. The following report summarizes the sample collection activities and the laboratory analytical results of samples submitted.

On December 5, 2019, a team of OCCU-TEC personnel including a Missouri licensed lead risk assessor conducted settled dust sampling for the presence of six (6) of the Resource Conservation and Recovery Act (RCRA) target metals (lead, arsenic, barium, cadmium, selenium, and silver) from various surfaces within tenant-occupied areas within the building. The purpose of this testing was to further characterize the presence and concentration of target metals in common tenant-occupied areas of the building.

The proposed sampling scheme, the number of samples, the sample distribution and general methodology was developed by GSA and OCCU-TEC. Specific sample locations were determined by OCCU-TEC personnel while on-site.

Metals in Settled Dust Sampling

Metals in settled dust sampling was conducted within only within tenant-occupied areas.

Dust wipe sampling was conducted in accordance with ASTM Standard E1728-16: Standard Practice for Collection of Settled Dust Samples Using Wipe Sampling Methods for Subsequent Lead Determination. ASTM Standard E1728-16 is consistent with the methodology described in the Housing and Urban Development Guidelines and 40 CRF 745.63. The Brookhaven National Laboratory's Surface Wipe Sampling Procedure (IH75190) was also used as a guideline.

Dust wipe sampling for the target metals was conducted on a variety of representative surfaces that have the potential of being disturbed by building occupants. A representative surface area of approximately one square foot (1 SF) was measured and delineated with pre-fabricated, disposable templates. The dust wipe samples were collected using dedicated dust wipe cloths meeting ASTM standards. Each distribution of the control of the contr

Results of the dust wipe samples collected from the building indicate that thirteen (13) of the twenty (20) samples contained concentrations of target metals above laboratory detection limits. The following table identifies the range of results for each of the six metals that were analyzed. Samples with a "<" sign indicate that the results were below the reportable limit.

Analysis	Lowest	Highest
	Concentration	Concentration
	(µg/sq. ft.)	(µg/sq. ft.)
Silver	< 0.50	< 0.50
Arsenic	< 0.50	4.40
Barium	< 0.75	100.0
Cadmium	< 0.050	3.90
Lead	< 0.25	45.0
Selenium	<1.3	<1.30

All of the samples collected contained target metals below the Brookhaven recommended levels except for sample 122019-MetW-110-06 which had a lead result above the recommended level.

OCCU-TEC appreciates the opportunity to work with GSA on this project. If you have any questions concerning this report, or if we may be of any additional service, please feel free to contact us.

Sincerely,

(b) (6)

Justin Arnold, CIEC Environmental Scientist



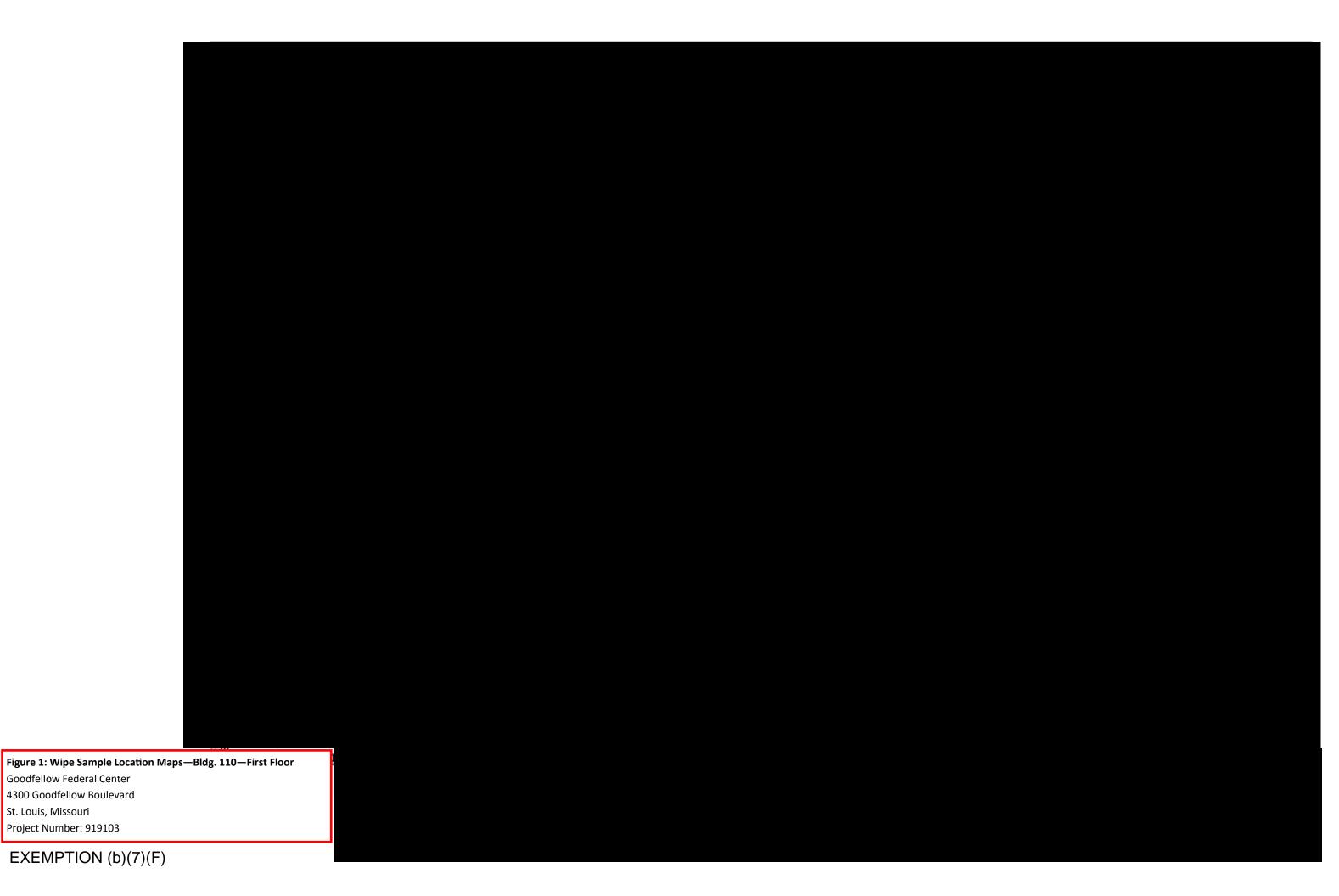
(b) (6)

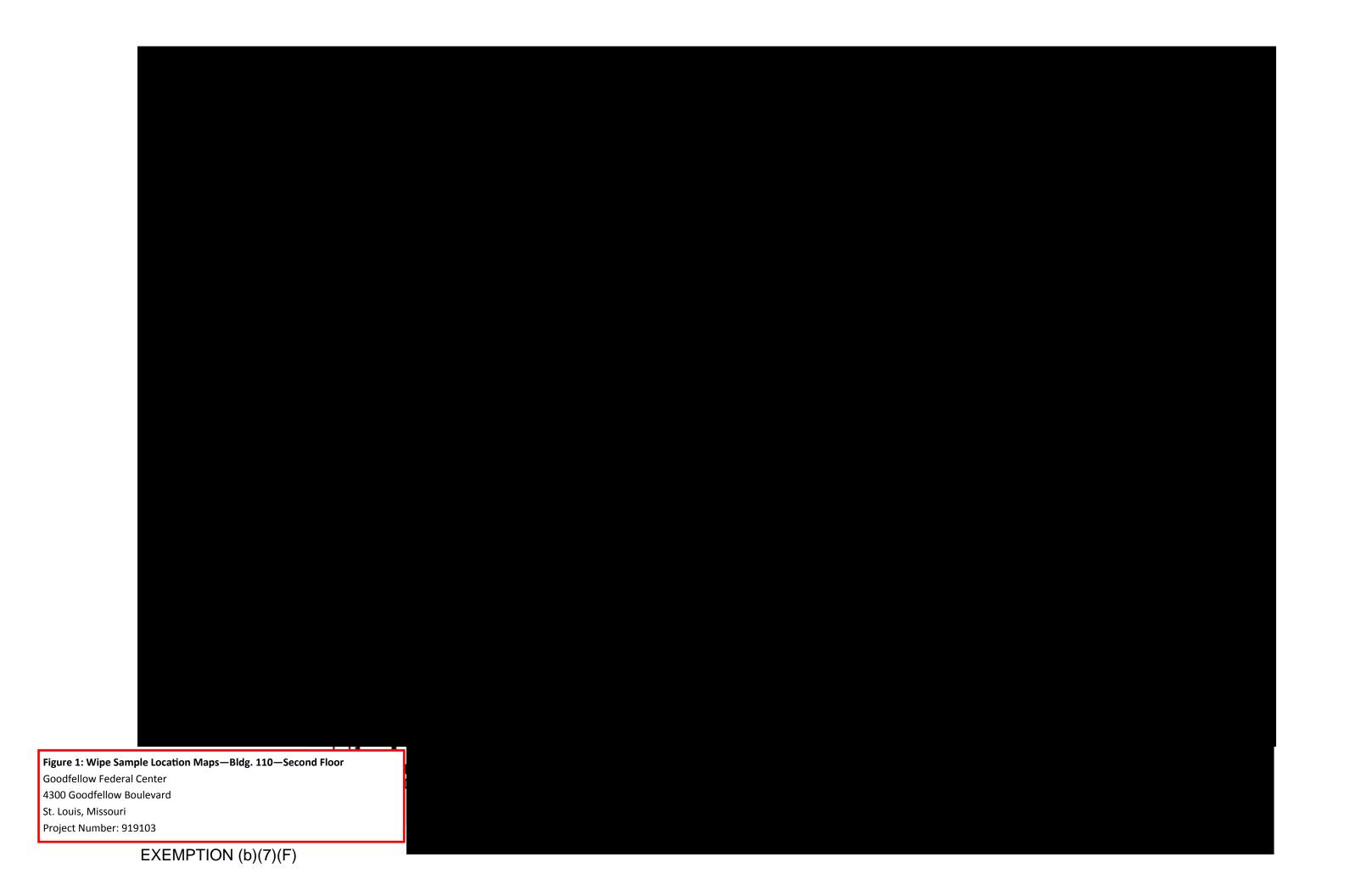
Jeff Smith Senior Project Manager (QA/QC)

Appendices:

- A Sample Location Diagram
- B Sample Summary Table
- C Laboratory Analysis Reports
- D Licenses

Appendix A Sample Location Diagram





Appendix B Sample Summary Table

	Goodfellow Federal C	enter - Building # 11	0 - Wipe Sam	ple Data		
Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
			Silver	< 0.50	μg	* 139/9.3
			Arsenic	< 0.50	μg	** 62
122019-MetW-110-01	Field Blank		Barium	< 0.75	μg	
122015 WICKW 110 01	rield Blank		Cadmium	< 0.05	μg	** 31
			Lead	< 0.25	μg	** 200/40
			Selenium	< 1.30	μg	
			Silver	< 0.50	μg	* 139/9.3
			Arsenic	< 0.50	μg	** 62
122019-MetW-110-02	Field Blank		Barium	< 0.75	μg	
			Cadmium	< 0.05	μg	** 31
			Lead	< 0.25	μg	** 200/40
			Selenium	< 1.30	μg	
			Silver	< 0.50	μg/ft ²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-110-03	1st Floor - Column J-3	Desk	Barium	< 0.75	μg/ft²	dult = a
			Cadmium	< 0.05	μg/ft²	** 31
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft ²	* 100/00
		D-2 Floor	Silver	< 0.50	$\mu g/ft^2$	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-110-04	1st Floor - Column D-2		Barium	0.90	μg/ft ²	** 24
			Cadmium	< 0.05	μg/ft ²	** 31 ** 200/40
			Lead	< 0.25	μg/ft ²	** 200/40
			Selenium Silver	< 1.30 < 0.50	$\mu g/ft^2$	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
			Barium	< 0.75	μg/ft² μg/ft²	02
122019-MetW-110-05	1st Floor - Column G-5	Window Sill	Cadmium	< 0.05	μg/ft ²	** 31
			Lead	< 0.25	μg/ft ²	** 200/40
			Selenium	< 1.30	μg/ft ²	2007 40
			Silver	< 0.50	μg/ft ²	* 139/9.3
			Arsenic	4.40	μg/ft ²	** 62
			Barium	100.00	μg/ft ²	02
122019-MetW-110-06	1st Floor - Column B-6	Floor	Cadmium	3.90	μg/ft ²	** 31
			Lead	45.00	μg/ft ²	** 200/40
			Selenium	< 1.30	μg/ft ²	200,40
			Silver	< 0.50	μg/ft ²	* 139/9.3
			Arsenic	< 0.50	μg/ft ²	** 62
			Barium	1.10	μg/ft ²	UZ
122019-MetW-110-07	1st Floor - Column E-8	Coutertop	Cadmium	0.10	μg/ft ²	** 31
			Lead	< 0.25	μg/ft ²	** 200/40
			Selenium	< 1.30	μg/ft ²	200/40

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft ²	** 62
	4.5	Top of Vending	Barium	4.80	μg/ft ²	
122019-MetW-110-08	1st Floor - Column F-9	Machine	Cadmium	0.16	μg/ft ²	** 31
			Lead	3.20	μg/ft ²	** 200/40
			Selenium	< 1.30	μg/ft ²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft ²	** 62
422040 14 114 440 00	4 . 5 . 6		Barium	1.40	μg/ft ²	
122019-MetW-110-09	1st Floor - Column P-15	Floor	Cadmium	< 0.05	μg/ft ²	** 31
			Lead	0.55	μg/ft ²	** 200/40
			Selenium	< 1.30	μg/ft ²	
			Silver	< 0.50	μg/ft ²	* 139/9.3
			Arsenic	< 0.50	μg/ft ²	** 62
422040 14 114 440 40	4 . 5 . 6 . 5 . 6	T (D (: .	Barium	2.50	μg/ft ²	
122019-MetW-110-10	1st Floor - Column E-16	Top of Refrigerator	Cadmium	0.05	μg/ft ²	** 31
			Lead	1.10	μg/ft ²	** 200/40
			Selenium	< 1.30	μg/ft ²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	0.98	μg/ft ²	** 62
422040 Ma-HW 440 44	1st Flagge Caluman C 10	nn C-18 Floor	Barium	36.00	μg/ft ²	
122019-MetW-110-11	1st Floor - Column C-18		Cadmium	1.20	μg/ft ²	** 31
			Lead	19.00	μg/ft ²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft ²	** 62
422040 Ma-HW 440 42	1-t-Flagge Calvery D 10	Calainat	Barium	0.82	μg/ft ²	
122019-MetW-110-12	1st Floor - Column D-10	Cabinet	Cadmium	< 0.050	μg/ft ²	** 31
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft ²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122010 14-114/ 440 42	2nd Floor Column F 0	Top of Defair	Barium	5.20	μg/ft ²	
122019-MetW-110-13	2nd Floor - Column F-9	Top of Refrigerator	Cadmium	0.18	μg/ft ²	** 31
			Lead	4.40	μg/ft ²	** 200/40
			Selenium	< 1.30	μg/ft ²	
			Silver	< 0.50	μg/ft ²	* 139/9.3
			Arsenic	< 0.50	μg/ft ²	** 62
422040 Marine 440 44	2nd Floor Column 11 42	FI	Barium	1.70	μg/ft ²	
122019-MetW-110-14	2nd Floor - Column H-12	Floor	Cadmium	< 0.05	μg/ft ²	** 31
			Lead	0.50	μg/ft ²	** 200/40
			Selenium	< 1.30	μg/ft ²	

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
	2 151 01 245		Barium	< 0.75	μg/ft ²	
122019-MetW-110-15	2nd Floor - Column P-15	Cabinet	Cadmium	< 0.05	μg/ft ²	** 31
			Lead	< 0.25	μg/ft ²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122010 14-41/1/110 16	2nd Floor Column D 15	Floor	Barium	< 0.92	μg/ft ²	
122019-MetW-110-16	2nd Floor - Column D-15	Floor	Cadmium	< 0.05	μg/ft²	** 31
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122010 14-414 110 17	2nd Floor Column A 14	VA/in al a Cill	Barium	< 0.75	μg/ft ²	
122019-MetW-110-17	2nd Floor - Column A-14	Window Sill	Cadmium	< 0.05	μg/ft ²	** 31
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
		.2 Floor	Arsenic	< 0.50	μg/ft²	** 62
122010 14-414 110 10	2nd Floor - Column D-12		Barium	1.30	μg/ft ²	
122019-MetW-110-18	Zilu Floor - Columni D-12		Cadmium	< 0.05	μg/ft²	** 31
			Lead	0.33	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-110-19	2nd Floor - Column A-11	Window Sill	Barium	< 0.75	μg/ft²	
122019-WELVV-110-19	Zilu Floor - Columni A-11	William Sill	Cadmium	< 0.05	μg/ft²	** 31
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-110-20	2nd Floor - Column E-8	Floor	Barium	0.95	μg/ft²	
122019-WELW-110-20	Zilu Flooi - Coluiliii E-8	FIOOI	Cadmium	< 0.05	μg/ft²	** 31
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-110-21	2nd Floor - Column D-5	Desk	Barium	0.98	μg/ft²	
177013 INIC(AA,110-71	Ziid Fioor - Coldillii D-3	Desk	Cadmium	< 0.05	μg/ft²	** 31
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended
						Limits
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-110-22	2nd Floor - Column M-4	Window Sill	Barium	< 0.75	μg/ft²	
122019-1016(00-110-22	2110 1 1001 - Column 191-4	Williaow Sili	Cadmium	< 0.05	μg/ft²	** 31
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	

^{*} Recommended Limits based on Table 3 (BNL Surface Wipe Criteria for Metals) of the Brookhaven Surface Wipe Sampling Procedure (IH75190), Rev 19: 3/4/14

^{**} Recommended Limits based on Attachment 9.3 (Required & Recommended Surface Wipe Criteria) - Brookhaven Surface Wipe Sampling Procedure (IH75190), Rev 23: 6/23/17 Indicates results at or above REL

Appendix C Laboratory Analytical Reports





12/12/2019

Date Received:

NIOSH 7300/EPA SW-846 3050B

Client: OCCU-TEC Inc. Attn: Justin Arnold Lab Order ID: 71931198

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117 **Project:**North Kansas City, MO 64117

Page: 1 of 6

Sample ID	Description	Area		Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(ft ²)	*Element	Limit (µg)	(µg)	(μg/ft ²)
			Ag	0.50	< 0.50	
122019-110-	Field Blank		As	0.50	< 0.50	
MetW-01	rieid biaiik		Ba	0.75	< 0.75	
		-	Cd	0.050	< 0.050	
71931198IPW_			Pb	0.25	< 0.25	
1			Se	1.3	< 1.3	
			Ag	0.50	< 0.50	
122019-110-	Field Blank		As	0.50	< 0.50	
MetW-02	rieid bialik		Ba	0.75	< 0.75	
		-	Cd	0.050	< 0.050	
71931198IPW_			Pb	0.25	< 0.25	
2			Se	1.3	< 1.3	
			Ag	0.50	< 0.50	< 0.50
122019-110-	1st floor column	1 st floor column	As	0.50	< 0.50	< 0.50
MetW-03	J3	1	Ba	0.75	< 0.75	< 0.75
		1	Cd	0.050	< 0.050	< 0.050
71931198IPW_			Pb	0.25	< 0.25	< 0.25
3			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-110-	1st floor column		As	0.50	< 0.50	< 0.50
MetW-04	D2	1	Ba	0.75	0.90	0.90
		1	Cd	0.050	< 0.050	< 0.050
71931198IPW_			Pb	0.25	< 0.25	< 0.25
4			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

Lab Director

^{*} SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.





12/12/2019

Date Received:

NIOSH 7300/EPA SW-846 3050B

Client: OCCU-TEC Inc. Attn: Justin Arnold Lab Order ID: 71931198

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117 **Project:**North Kansas City, MO 64117

Page: 2 of 6

Sample ID	Description	Area		Reporting	Concentration	Concentration				
Lab Sample ID	Lab Notes	(ft ²)	*Element	Limit (µg)	Concentration (μg)	(μg/ft ²)				
			Ag	0.50	< 0.50	< 0.50				
122019-110-	1st floor column		As	0.50	< 0.50	< 0.50				
MetW-05	G5	1	Ba	0.75	< 0.75	< 0.75				
		1	Cd	0.050	< 0.050	< 0.050				
71931198IPW_			Pb	0.25	< 0.25	< 0.25				
5			Se	1.3	< 1.3	< 1.3				
			Ag	0.50	< 0.50	< 0.50				
122019-110-	1st floor column		As	0.50	4.4	4.4				
MetW-06	В6	1	Ba	15	100	100				
		1	Cd	0.050	3.9	3.9				
71931198IPW_			Pb	5.0	45	45				
6			Se	1.3	< 1.3	< 1.3				
			Ag	0.50	< 0.50	< 0.50				
122019-110-	1 st floor column E8		1st floor column	1st floor column	1st floor column	1 st floor column	As	0.50	< 0.50	< 0.50
MetW-07			1	Ba	0.75	1.1	1.1			
		1	Cd	0.050	0.10	0.10				
71931198IPW_			Pb	0.25	< 0.25	< 0.25				
7			Se	1.3	< 1.3	< 1.3				
			Ag	0.50	< 0.50	< 0.50				
122019-110-	1 st floor column		As	0.50	< 0.50	< 0.50				
MetW-08	F9	1	Ba	0.75	4.8	4.8				
		1	Cd	0.050	0.16	0.16				
71931198IPW_			Pb	0.25	3.2	3.2				
8			Se	1.3	< 1.3	< 1.3				

Melissa Ferrell

Analyst

Lab Director

 $^{*\,}SAI\,\,is\,\,AIHA\,\,ELLAP\,\,accredited\,for\,\,Pb\,\,only\,for\,\,dust\,\,wipe\,\,metals.$





NIOSH 7300/EPA SW-846 3050B

Client: OCCU-TEC Inc. Lab Order ID: 71931198 Attn: Justin Arnold **Date Received:** 12/12/2019

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117 12/19/2019 **Date Reported:** 3 of 6 **Project:** 919103 Page:

Sample ID	Description	Area		Reporting	Concentration	Concentration			
Lab Sample ID	Lab Notes	(ft ²)	*Element	Limit (µg)	Concentration (μg)	Concentration (μg/ft ²)			
			Ag	0.50	< 0.50	< 0.50			
122019-110-	1st floor column		As	0.50	< 0.50	< 0.50			
MetW-09	P15	1	Ba	0.75	1.4	1.4			
		1	Cd	0.050	< 0.050	< 0.050			
71931198IPW_			Pb	0.25	0.55	0.55			
9			Se	1.3	< 1.3	< 1.3			
			Ag	0.50	< 0.50	< 0.50			
122019-110-	1st floor column		As	0.50	< 0.50	< 0.50			
MetW-10	E16	1	Ba	0.75	2.5	2.5			
		1	Cd	0.050	0.051	0.051			
71931198IPW_			Pb	0.25	1.1	1.1			
10			Se	1.3	< 1.3	< 1.3			
			Ag	0.50	< 0.50	< 0.50			
122019-110-	1st floor column	1st floor column	1st floor column	1st floor column		As	0.50	0.98	0.98
MetW-11	C18	1	Ba	7.5	36	36			
		1	Cd	0.050	1.2	1.2			
71931198IPW_			Pb	0.25	19	19			
11			Se	1.3	< 1.3	< 1.3			
			Ag	0.50	< 0.50	< 0.50			
122019-110-	1st floor column		As	0.50	< 0.50	< 0.50			
MetW-12	D10	1	Ba	0.75	0.82	0.82			
		1	Cd	0.050	< 0.050	< 0.050			
71931198IPW_			Pb	0.25	< 0.25	< 0.25			
12			Se	1.3	< 1.3	< 1.3			

(b) (6) Melissa Ferrell **Lab Director** Analyst

^{*} SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.





NIOSH 7300/EPA SW-846 3050B

Client: OCCU-TEC Inc. Lab Order ID: 71931198 Attn: Justin Arnold **Date Received:** 12/12/2019

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117 12/19/2019 **Date Reported: Project:** 919103 Page: 4 of 6

Sample ID	Description	Area		Reporting	Concentration	Concentration				
Lab Sample ID	Lab Notes	(ft ²)	*Element	Limit (µg)	Concentration (μg)	Concentration (μg/ft ²)				
			Ag	0.50	< 0.50	< 0.50				
122019-110-	2 nd floor column		As	0.50	< 0.50	< 0.50				
MetW-13	F9	1	Ba	0.75	5.2	5.2				
		1	Cd	0.050	0.18	0.18				
71931198IPW_			Pb	0.25	4.4	4.4				
13			Se	1.3	< 1.3	< 1.3				
			Ag	0.50	< 0.50	< 0.50				
122019-110-	2 nd floor column		As	0.50	< 0.50	< 0.50				
MetW-14	H12	1	Ba	0.75	1.7	1.7				
		1	Cd	0.050	< 0.050	< 0.050				
71931198IPW_			Pb	0.25	0.50	0.50				
14			Se	1.3	< 1.3	< 1.3				
			Ag	0.50	< 0.50	< 0.50				
122019-110-	2 nd floor column P15		2 nd floor column	As	0.50	< 0.50	< 0.50			
MetW-15				Ba	0.75	< 0.75	< 0.75			
		1	Cd	0.050	< 0.050	< 0.050				
71931198IPW_			Pb	0.25	< 0.25	< 0.25				
15			Se	1.3	< 1.3	< 1.3				
			Ag	0.50	< 0.50	< 0.50				
122019-110-	122019-110- 2 nd floor column MetW-16 D15		As	0.50	< 0.50	< 0.50				
MetW-16		1	Ba	0.75	0.92	0.92				
		1	Cd	0.050	< 0.050	< 0.050				
71931198IPW_			Pb	0.25	< 0.25	< 0.25				
16			Se	1.3	< 1.3	< 1.3				

(b) (6) Melissa Ferrell **Lab Director** Analyst

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NIOSH 7300/EPA SW-846 3050B

Client: OCCU-TEC Inc. Lab Order ID: 71931198 Attn: Justin Arnold **Date Received:** 12/12/2019

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117 12/19/2019 **Date Reported: Project:** 919103 Page: 5 of 6

Sample ID	Description	Area		Reporting	Concentration	Concentration	
Lab Sample ID	Lab Notes	(ft ²)	*Element	Limit (µg)	Concentration (μg)	Concentration (μg/ft²)	
			Ag	0.50	< 0.50	< 0.50	
122019-110-	2 nd floor column		As	0.50	< 0.50	< 0.50	
MetW-17	A14	1	Ba	0.75	< 0.75	< 0.75	
		1	Cd	0.050	< 0.050	< 0.050	
71931198IPW_			Pb	0.25	< 0.25	< 0.25	
17			Se	1.3	< 1.3	< 1.3	
			Ag	0.50	< 0.50	< 0.50	
122019-110-	2 nd floor column		As	0.50	< 0.50	< 0.50	
MetW-18	D12	1	Ba	0.75	1.3	1.3	
		1	Cd	0.050	< 0.050	< 0.050	
71931198IPW_			Pb	0.25	0.33	0.33	
18			Se	1.3	< 1.3	< 1.3	
			Ag	0.50	< 0.50	< 0.50	
122019-110-	2 nd floor column	2 nd floor column		As	0.50	< 0.50	< 0.50
MetW-19	A11	1	Ba	0.75	< 0.75	< 0.75	
		1	Cd	0.050	< 0.050	< 0.050	
71931198IPW_			Pb	0.25	< 0.25	< 0.25	
19			Se	1.3	< 1.3	< 1.3	
			Ag	0.50	< 0.50	< 0.50	
122019-110-	2 nd floor column		As	0.50	< 0.50	< 0.50	
MetW-20		1	Ba	0.75	0.95	0.95	
		1	Cd	0.050	< 0.050	< 0.050	
71931198IPW_			Pb	0.25	< 0.25	< 0.25	
20			Se	1.3	< 1.3	< 1.3	

Melissa Ferrell **Lab Director** Analyst

^{*} SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.





12/12/2019

Date Received:

NIOSH 7300/EPA SW-846 3050B

Client: OCCU-TEC Inc. Lab Order ID: 71931198 Attn: Justin Arnold

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117

Date Reported: 12/19/2019 **Project:** 919103 Page: 6 of 6

Sample ID	Description	Amaa		Reporting	Concentration	Concentration	
Lab Sample ID	Lab Notes	Area (ft²)	*Element	Limit (µg)	Concentration (μg)	Concentration (μg/ft²)	
			Ag	0.50	< 0.50	< 0.50	
122019-110-	2 nd floor column		As	0.50	< 0.50	< 0.50	
MetW-21	D5	1	Ba	0.75	0.98	0.98	
		1	1	Cd	0.050	< 0.050	< 0.050
71931198IPW_			Pb	0.25	< 0.25	< 0.25	
21			Se	1.3	< 1.3	< 1.3	
			Ag	0.50	< 0.50	< 0.50	
122019-110-	2 nd floor column	2 nd floor column		As	0.50	< 0.50	< 0.50
MetW-22	M4	1	Ba	0.75	< 0.75	< 0.75	
		1	Cd	0.050	< 0.050	< 0.050	
71931198IPW_			Pb	0.25	< 0.25	< 0.25	
22			Se	1.3	< 1.3	< 1.3	

Melissa Ferrell	(b) (6)
Analyst	Lab Director

^{*} SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.



Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 Phone: 336.292.3888 Fax: 336.292.3313 www.sailab.com lab@sailab.com

Lab Use Only Lab Order ID: _ Client Code: _	7931191
Circin Code	

Company Contact	Information			Industrial Hygiene Test Types	
Company Contact Information			Arnold	Silica as Alpha Quartz (XSZ)*	
	Company: OCCU-TEC Inc. Contact: Justin Arnold		With Respirable Dust (XDZ) Silica as Cristobalite (XSC)*		
Address: 2604 NE Industrial Drive, Suite 230 Phone □:816-810-3276		With Respirable Dust (XDC)			
North Kansas (North Kansas City, MO 64117		94-3478	Silica as Tridymite (XST)* With Respirable Dust (XDT)	
Email :jarnold@occutec.com			@occutec.com	Silica as Alpha Quartz, Cristobalite, Tridymite (XSA)*	
				With Respirable Dust (XDA)	
Billing/Invoice Information		Turn Arou	und Times^	Silica Bulk (XSI)*	
SAME	SAME		48 Hours		
Company:		3 Hours	72 Hours	NIOSH Method 0500 (GTD)	
Contact:		6 Hours	96 Hours	Respirable Dust NIOSH Method 0600 (GRD)	
Address:		12 Hours	120 Hours	PCM NIOSH 7400-A Rules (PCM)	
		24 Hours	144 ⁺ Hours	B Rules (PCB) TWA (PTA)	_
		TATs not available	for certain test types	TEM NIOSH 7402 (Asbestos) (TNI) Hexavalent Chromium (OSHA ID-215)	-
PO Number:	010103			(Note if from spray paint operations)	
Project Name/Number: 919103			Under Comments)		
				Other	4
				* Modified NIOSH 7500; OSHA ID 142	
Sample ID #	Description/Lo	ocation	Volume/A	rea Comments	
122019-110-MetW-01	Field B	lank	I N/A	Ag, As, Ba, Cd, Pb, Se	e
122019-110-MetW-02	1:11	7 1 /			
122010 110 1110111 021	Field L	Slank	NA	Ag, As, Ba, Cd, Pb, Se	
	St floor Colum	olank o J3	N/A 1sf	Ag, As, Ba, Cd, Pb, So Ag, As, Ba, Cd, Pb, So	9
	st floor Colum	Slank n 53 N	1 SF 1 SF		9
122019-110-MetW-03	st floor Column	Blank N 53 IL	1 sf 1 sf 1 sf	Ag, As, Ba, Cd, Pb, So	9 9
122019-110-MetW-03 15 122019-110-MetW-04 15 122019-110-MetW-05 15 122019-110-MetW-06 15	st floor Column t floor Column C floor Column C	Blank n J3 DL 135	154	Ag, As, Ba, Cd, Pb, Se Ag, As, Ba, Cd, Pb, Se	e e e
122019-110-MetW-03 15 122019-110-MetW-04 15 122019-110-MetW-05 15 122019-110-MetW-06 15	st floor Column t floor Column C floor Column C	Slank n J3 D 15 15 16 E8	154	Ag, As, Ba, Cd, Pb, So Ag, As, Ba, Cd, Pb, So Ag, As, Ba, Cd, Pb, So	9 9 9 9
122019-110-MetW-03 151 122019-110-MetW-05 151 122019-110-MetW-06 151 122019-110-MetW-07 151 122019-110-MetW-07 151	st floor Column t floor Column floor Column (floor Column (floor Column floor Column]] 36		Ag, As, Ba, Cd, Pb, So Ag, As, Ba, Cd, Pb, So Ag, As, Ba, Cd, Pb, So Ag, As, Ba, Cd, Pb, So	
122019-110-MetW-03 15 122019-110-MetW-05 15 122019-110-MetW-06 15 122019-110-MetW-07 15 122019-110-MetW-07 15	st floor Column t floor Column floor Column (floor Column (floor Column floor Column]] 36	5f 5f 5f	Ag, As, Ba, Cd, Pb, Se Ag, As, Ba, Cd, Pb, Se	
122019-110-MetW-03 15 122019-110-MetW-04 15 122019-110-MetW-05 15 122019-110-MetW-06 15 122019-110-MetW-07 15 122019-110-MetW-08 15 122019-110-MetW-09 15	st floor Column t floor Column floor Column floor Column floor Column floor Column t floor Column t floor Column	D 75 36 E8 F9	5f 5f 5f	Ag, As, Ba, Cd, Pb, Se Ag, As, Ba, Cd, Pb, Se	
122019-110-MetW-03 15 122019-110-MetW-05 15 122019-110-MetW-06 15 122019-110-MetW-07 15 122019-110-MetW-08 15 122019-110-MetW-09 15 122019-110-MetW-10 15 122019-110-MetW-11 15	St floor Column	D 35 36 E8 F9 P15	Sf Sf Sf Sf L Sf	Ag, As, Ba, Cd, Pb, So Ag, As, Ba, Cd, Pb, So	
122019-110-MetW-03 15 122019-110-MetW-04 15 122019-110-MetW-05 15 122019-110-MetW-07 15 122019-110-MetW-07 15 122019-110-MetW-09 15 122019-110-MetW-10 15 122019-110-MetW-11 15	St floor Column	DL 35 36 E8 F9 P15 E16	Sf Sf Sf Sf Sf Sf	Ag, As, Ba, Cd, Pb, Se Ag, As, Ba, Cd, Pb, Se	
122019-110-MetW-03 15 122019-110-MetW-04 15 122019-110-MetW-05 151 122019-110-MetW-06 151 122019-110-MetW-07 151 122019-110-MetW-09 151 122019-110-MetW-10 151 122019-110-MetW-11 151 122019-110-MetW-11 151	St floor Column	D 75 36 E8 F9 P15 E16 C18	Sf Sf Sf Sf Sf Sf	Ag, As, Ba, Cd, Pb, Se Ag, As, Ba, Cd, Pb, Se	9 9 9 9 9 9 9 9 9
122019-110-MetW-03 15 122019-110-MetW-04 15 122019-110-MetW-05 151 122019-110-MetW-06 151 122019-110-MetW-07 151 122019-110-MetW-09 151 122019-110-MetW-09 151 122019-110-MetW-10 151 122019-110-MetW-11 151 122019-110-MetW-11 151	St floor Column	DL 35 36 E8 F9 P15 E16 U8	Sf Sf Sf Sf Sf Sf	Ag, As, Ba, Cd, Pb, So Ag, As, Ba, Cd, Pb, So	9 9 9 9 9 9 9 9 9
122019-110-MetW-03 15 122019-110-MetW-05 151 122019-110-MetW-06 151 122019-110-MetW-07 151 122019-110-MetW-08 151 122019-110-MetW-09 15 122019-110-MetW-10 151 122019-110-MetW-11 15	St floor Column Floor Column	D 75 86 E8 F9 P15 E16 C18 D10 P9	Sf Sf Sf Sf Sf Sf	Ag, As, Ba, Cd, Pb, Sc, Ag, As, As, As, As, As, As, As, As, As, As	
122019-110-MetW-03 15 122019-110-MetW-04 15 122019-110-MetW-05 151 122019-110-MetW-07 151 122019-110-MetW-08 151 122019-110-MetW-09 15 122019-110-MetW-10 151 122019-110-MetW-11 151 122019-110-MetW-11 151 122019-110-MetW-12 151 122019-110-MetW-13 2 161	St floor Column Floor Column	D 75 86 E8 F9 P15 E16 C18 D10 P9	Sf Sf Sf Sf Sf Sf Sf	Ag, As, Ba, Cd, Pb, Sc, Ag, As, As, As, As, As, As, As, As, As, As	9 9 9 9 9 9 9 9 9



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Lab Use Only - Lab Order ID:	71431198
Client Code:	

Sample ID #	Description/Location	Volume/Area	Comments
122019-110-MetW-14	2rd floor Column HIZ	1 st	Ag, As, Ba, Cd, Pb, Se
122019-110-MetW-15	2rd Cloor Column P15	15+	Ag, As, Ba, Cd, Pb, Se
122019-110-MetW-16	2nd floor column DIS	1 st	Ag, As, Ba, Cd, Pb, Se
122019-110-MetW-17	2nd Floor Column A14	1 5f	Ag, As, Ba, Cd, Pb, Se
122019-110-MetW-18	and floor column DIL	1 SF	Ag, As, Ba, Cd, Pb, Se
122019-110-MetW-19	2nd floor column All	1 5F	Ag, As, Ba, Cd, Pb, Se
122019-110-MetW-20	2rd Clope Column Eg	1 56	Ag, As, Ba, Cd, Pb, Se
122019-110-MetW-21	2nd Floor column 15	1 SF	Ag, As, Ba, Cd, Pb, Se
122019-110-MetW-22	and floor column MH	156	Ag, As, Ba, Cd, Pb, Se
	l Committee Comm		
			Page 1 of 1

Appendix D

Qualifications and Licenses

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Austin G. O'Byrne

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor Category of License

Issuance Date: 12/10/2018
Expiration Date: 12/10/2020

License Number: 181210-300005671





Randall W. Williams, MD, FACOG
Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102