OCCU-TEC

2604 NE Industrial Drive, Suite 230
North Kansas City, Missouri 64117
Telephone: 816.231.5580
Fax: 816.231.5641
www.occutec.com

January 14, 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 105
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 105 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 5th, 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 prefabricated, disposable templates. The dust wipe samples were collected using dedicated dust wipe cloths meeting ASTM standards. 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. Then, the wipe was folded over itself and the area was wiped again in a direction perpendicular to the first wipe orientation. The wipe samples were then placed into labeled, clean laboratory-supplied plastic centrifuge tubes with screw on caps. Dust wipe samples were submitted to Scientific Analytical Institute, Inc. (SAI) in Greensboro, North Carolina for Inductively Coupled Plasma (ICP) analysis of metals analysis using Environmental Protection Agency (EPA) method SW846 350B/7420.

Results of the dust wipe samples collected from the building indicate that twenty-two (22) of the twenty-eight (28) 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 Concentration (µg/sq. ft.)	Highest Concentration (µg/sq. ft.)
Silver	<0.50	0.51
Arsenic	<0.50	1.2
Barium	<0.75	98
Cadmium	<0.050	13.0
Lead	<0.25	59.0
Selenium	<1.3	<1.3

One (1) of the samples collected contained target metals above the Brookhaven recommended levels.

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
Project Manager

(b) (6)

Kevin Heriford
Environmental Operations Manager (QA/QC)

Appendices:

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

Appendix A

Sample Location Diagrams

EXEMPTION (b)(7)(F)

Figure 1: Wipe Sample Location Maps—1st Floor bldg. 105
Goodfellow Federal Center
4300 Goodfellow Boulevard
St. Louis, Missouri
Project Number: 919103

EXEMPTION (b)(7)(F)

Figure 2: Wipe Sample Location Maps—2nd Floor bldg. 105
Goodfellow Federal Center
4300 Goodfellow Boulevard
St. Louis, Missouri
Project Number: 919103

Appendix B

Sample Summary Table

Goodfellow Federal Center - Building # 105 - Wipe Sample Data						
Sample Number	**Location**	**Area Description**	**Analyte**	**Result**	**Units**	**Recommended Limits**
122019-MetW-105-01	Field Blank		Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-02	Field Blank		Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-03	Field Blank		Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-04	1st floor column G21	Shelf	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	1.20	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-05	1st floor column G18	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	0.36	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-06	1st floor column A21	Top of Refrigerator	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	1.40	µg/ft^2	
			Cadmium	0.061	µg/ft^2	** 31
			Lead	0.74	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-07	1st floor column F11	Desk	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
122019-MetW-105-08	1st floor column C13	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	1.50	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	0.52	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-09	1st floor column H1	Shelf	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-10	2nd floor column G1	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	1.70	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	0.65	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-11	2nd floor column C4	Shelf	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	0.99	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-12	2nd floor column E9	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-13	2nd floor column F15	Shelf	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	2.00	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	0.41	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-14	2nd floor column B20	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	0.42	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
122019-MetW-105-15	2nd floor column F24	Countertop	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	1.60	µg/ft^2	
			Cadmium	0.055	µg/ft^2	** 31
			Lead	1.40	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-16	2nd floor column E26	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	1.20	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	0.44	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-17	2nd floor column E32	Shelf	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	29.00	µg/ft^2	
			Cadmium	0.460	µg/ft^2	** 31
			Lead	4.60	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-18	2nd floor column D39 Room 315	Top of Refrigerator	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	6.50	µg/ft^2	
			Cadmium	0.300	µg/ft^2	** 31
			Lead	1.90	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-19	2nd floor column F44	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	0.062	µg/ft^2	** 31
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-20	2nd floor column G47 Room 347	Top of Refrigerator	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	14.00	µg/ft^2	
			Cadmium	13.000	µg/ft^2	** 31
			Lead	10.00	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-21	2nd floor column E50	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	0.88	µg/ft^2	
			Cadmium	0.093	µg/ft^2	** 31
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
122019-MetW-105-22	2nd floor column H53	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	1.20	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-23	1st floor column F52	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	3.10	µg/ft^2	
			Cadmium	0.077	µg/ft^2	** 31
			Lead	1.60	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-24	1st floor column F49	Table	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	1.10	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-25	1st floor column H46	Floor	Silver	0.51	µg/ft^2	* 139/9.3
			Arsenic	1.20	µg/ft^2	** 62
			Barium	98.00	µg/ft^2	
			Cadmium	4.100	µg/ft^2	** 31
			Lead	59.00	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-26	1st floor column B43	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	0.95	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	0.42	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-27	1st floor column H38	Cabinet	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	17.00	µg/ft^2	
			Cadmium	0.630	µg/ft^2	** 31
			Lead	10.00	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
122019-MetW-105-28	1st floor column J35	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 0.50	µg/ft^2	** 62
			Barium	1.40	µg/ft^2	
			Cadmium	< 0.050	µg/ft^2	** 31
			Lead	1.30	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	

* 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 Results and Chain of Custody Documentation

Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH 7300/EPA SW-846 3050B

Client:	OCCU-TEC Inc. 2604 NE Industrial Drive, Suite 230 North Kansas City, MO 64117	**Attn:**	Justin Arnold	**Lab Order ID:** **Date Received:** **Date Reported:**	71931196 12/12/2019 12/20/2019
Project:	919103			**Page:**	**1 of 7**

Sample ID *Lab Sample ID*	Description *Lab Notes*	Area (ft^2)	*Element	Reporting Limit (µg)	Concentration (µg)	Concentration ($µg/ft^2$)
122019-MetW-105-01	Field Blank	-	Ag	0.50	< 0.50	--
			As	0.50	< 0.50	--
			Ba	0.75	< 0.75	--
			Cd	0.050	< 0.050	--
71931196IPW_1			Pb	0.25	< 0.25	--
			Se	1.3	< 1.3	--
122019-MetW-105-02	Field Blank	-	Ag	0.50	< 0.50	--
			As	0.50	< 0.50	--
			Ba	0.75	< 0.75	--
			Cd	0.050	< 0.050	--
71931196IPW_2			Pb	0.25	< 0.25	--
			Se	1.3	< 1.3	--
122019-MetW-105-03	Field Blank	-	Ag	0.50	< 0.50	--
			As	0.50	< 0.50	--
			Ba	0.75	< 0.75	--
			Cd	0.050	< 0.050	--
71931196IPW_3			Pb	0.25	< 0.25	--
			Se	1.3	< 1.3	--
122019-MetW-105-04	1st floor column G21	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	1.2	1.2
			Cd	0.050	< 0.050	< 0.050
71931196IPW_4			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

(b) (6) [redacted]

Lab Director

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

Unless otherwise noted blank sample correction was not performed on analytical results. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. MDLs are available upon request. Time-weighted average (TWA) calculations are based on customer supplied data and valid only for samples included in the specified TWA group. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190.

Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH 7300/EPA SW-846 3050B

Client:	OCCU-TEC Inc. 2604 NE Industrial Drive, Suite 230 North Kansas City, MO 64117	**Attn:**	Justin Arnold	**Lab Order ID:** **Date Received:** **Date Reported:**	71931196 12/12/2019 12/20/2019
Project:	919103			**Page:**	**2 of 7**

Sample ID *Lab Sample ID*	Description *Lab Notes*	Area (ft^2)	*Element	Reporting Limit (µg)	Concentration (µg)	Concentration ($µg/ft^2$)
122019-MetW-105-05	1st floor column G18	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
71931196IPW_5			Pb	0.25	0.36	0.36
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-06	1st floor column A21	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	1.4	1.4
			Cd	0.050	0.061	0.061
71931196IPW_6			Pb	0.25	0.74	0.74
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-07	1st floor column F11	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
71931196IPW_7			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-08	1st floor column C13	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	1.5	1.5
			Cd	0.050	< 0.050	< 0.050
71931196IPW_8			Pb	0.25	0.52	0.52
			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

(b) (6) [redacted]

Lab Director

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Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH 7300/EPA SW-846 3050B

Client:	OCCU-TEC Inc. 2604 NE Industrial Drive, Suite 230 North Kansas City, MO 64117	**Attn:**	Justin Arnold	**Lab Order ID:** **Date Received:** **Date Reported:**	71931196 12/12/2019 12/20/2019
Project:	919103			**Page:**	**3 of 7**

Sample ID ***Lab Sample ID***	**Description** ***Lab Notes***	**Area (ft^2)**	***Element**	**Reporting Limit (µg)**	**Concentration (µg)**	**Concentration ($µg/ft^2$)**
122019-MetW-105-09	1st floor column H1	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
71931196IPW_9			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-10	2nd floor column G1	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	1.7	1.7
			Cd	0.050	< 0.050	< 0.050
71931196IPW_10			Pb	0.25	0.65	0.65
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-11	2nd floor column C4	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	0.99	0.99
			Cd	0.050	< 0.050	< 0.050
71931196IPW_11			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-12	2nd floor column E9	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
71931196IPW_12			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

(b) (6) [redacted]

Lab Director

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Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH 7300/EPA SW-846 3050B

Client:	OCCU-TEC Inc. 2604 NE Industrial Drive, Suite 230 North Kansas City, MO 64117	**Attn:**	Justin Arnold	**Lab Order ID:** **Date Received:** **Date Reported:**	71931196 12/12/2019 12/20/2019
Project:	919103			**Page:**	**4 of 7**

Sample ID ***Lab Sample ID***	**Description** ***Lab Notes***	**Area (ft^2)**	***Element**	**Reporting Limit (µg)**	**Concentration (µg)**	**Concentration ($µg/ft^2$)**
122019-MetW-105-13	2nd floor column F15	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	2.0	2.0
			Cd	0.050	< 0.050	< 0.050
71931196IPW_13			Pb	0.25	0.41	0.41
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-14	2nd floor column B20	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
71931196IPW_14			Pb	0.25	0.42	0.42
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-15	2nd floor column F24	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	1.6	1.6
			Cd	0.050	0.055	0.055
71931196IPW_15			Pb	0.25	1.4	1.4
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-16	2nd floor column E26	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	1.2	1.2
			Cd	0.050	< 0.050	< 0.050
71931196IPW_16			Pb	0.25	0.44	0.44
			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

(b) (6)

Lab Director

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

Unless otherwise noted blank sample correction was not performed on analytical results. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. MDLs are available upon request. Time-weighted average (TWA) calculations are based on customer supplied data and valid only for samples included in the specified TWA group. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190.

Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH 7300/EPA SW-846 3050B

Client:	OCCU-TEC Inc. 2604 NE Industrial Drive, Suite 230 North Kansas City, MO 64117	**Attn:**	Justin Arnold	**Lab Order ID:** **Date Received:** **Date Reported:**	71931196 12/12/2019 12/20/2019
Project:	919103			**Page:**	**5 of 7**

Sample ID ***Lab Sample ID***	**Description** ***Lab Notes***	**Area (ft^2)**	***Element**	**Reporting Limit (µg)**	**Concentration (µg)**	**Concentration ($µg/ft^2$)**
122019-MetW-105-17	2nd floor column E32	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	7.5	29	29
			Cd	0.050	0.46	0.46
71931196IPW_17			Pb	0.25	4.6	4.6
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-18	2nd floor column D39 Room 315	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	6.5	6.5
			Cd	0.050	0.30	0.30
71931196IPW_18			Pb	0.25	1.9	1.9
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-19	2nd floor column F44	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	0.062	0.062
71931196IPW_19			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-20	2nd floor column G47 Room 347	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	3.8	14	14
			Cd	0.050	13	13
71931196IPW_20			Pb	0.25	10.	10.
			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

(b) (6)

Lab Director

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Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH 7300/EPA SW-846 3050B

Client:	OCCU-TEC Inc. 2604 NE Industrial Drive, Suite 230 North Kansas City, MO 64117	**Attn:**	Justin Arnold	**Lab Order ID:** **Date Received:** **Date Reported:**	71931196 12/12/2019 12/20/2019
Project:	919103			**Page:**	**6 of 7**

Sample ID ***Lab Sample ID***	**Description** ***Lab Notes***	**Area (ft^2)**	***Element**	**Reporting Limit (µg)**	**Concentration (µg)**	**Concentration ($µg/ft^2$)**
122019-MetW-105-21	2nd floor column E50	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	0.88	0.88
			Cd	0.050	0.093	0.093
71931196IPW_21			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-22	2nd floor column H53	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	1.2	1.2
			Cd	0.050	< 0.050	< 0.050
71931196IPW_22			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-23	1st floor column F52	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	3.1	3.1
			Cd	0.050	0.077	0.077
71931196IPW_23			Pb	0.25	1.6	1.6
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-24	1st floor column F49	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	1.1	1.1
			Cd	0.050	< 0.050	< 0.050
71931196IPW_24			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

(b) (6) [redacted]

Lab Director

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Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH 7300/EPA SW-846 3050B

Client:	OCCU-TEC Inc. 2604 NE Industrial Drive, Suite 230 North Kansas City, MO 64117	**Attn:**	Justin Arnold	**Lab Order ID:** **Date Received:** **Date Reported:**	71931196 12/12/2019 12/20/2019
Project:	919103			**Page:**	**7 of 7**

Sample ID ***Lab Sample ID***	**Description** ***Lab Notes***	**Area (ft^2)**	***Element**	**Reporting Limit (µg)**	**Concentration (µg)**	**Concentration ($µg/ft^2$)**
122019-MetW-105-25	1st floor column H46	1	Ag	0.50	0.51	0.51
			As	0.50	1.2	1.2
			Ba	15	98	98
			Cd	0.050	4.1	4.1
71931196IPW_25			Pb	5.0	59	59
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-26	1st floor column B43	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	0.95	0.95
			Cd	0.050	< 0.050	< 0.050
71931196IPW_26			Pb	0.25	0.42	0.42
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-27	1st floor column H38	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	3.8	17	17
			Cd	0.050	0.63	0.63
71931196IPW_27			Pb	0.25	10.	10.
			Se	1.3	< 1.3	< 1.3
122019-MetW-105-28	1st floor column J35	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	1.4	1.4
			Cd	0.050	< 0.050	< 0.050
71931196IPW_28			Pb	0.25	1.3	1.3
			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

(b) (6) [redacted]

Lab Director

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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: 71931196
Client Code: _____

Company Contact Information	
Company: OCCU-TEC Inc.	Contact: Justin Arnold
Address: 2604 NE Industrial Drive, Suite 230	Phone ☐: 816-810-3276
North Kansas City, MO 64117	Fax ☐: 816-994-3478
	Email :jarnold@occutec.com

Billing/Invoice Information	Turn Around Times^	
SAME ■	90 Min. ☐	48 Hours ☐
Company:	3 Hours ☐	72 Hours ☐
Contact:	6 Hours ☐	96 Hours ☐
Address:	12 Hours ☐	120 Hours ■
	24 Hours ☐	144+Hours ☐
	^TATs not available for certain test types	
PO Number:		
Project Name/Number: 919103		

Industrial Hygiene Test Types	
Silica as Alpha Quartz (XSZ)* ☐ With Respirable Dust (XDZ) ☐	
Silica as Cristobalite (XSC)* ☐ With Respirable Dust (XDC) ☐	
Silica as Tridymite (XST)* ☐ With Respirable Dust (XDT) ☐	
Silica as Alpha Quartz, Cristobalite, Tridymite (XSA)* ☐ With Respirable Dust (XDA) ☐	
Silica Bulk (XSI)*	☐
Bulk Phase ID/Whole Rock (XUK)	☐
Total Dust NIOSH Method 0500 (GTD)	☐
Respirable Dust NIOSH Method 0600 (GRD)	☐
PCM NIOSH 7400-A Rules (PCM)	☐
B Rules (PCB) ☐ TWA (PTA) ☐	
TEM NIOSH 7402 (Asbestos) (TNI)	☐
Hexavalent Chromium (OSHA ID-215) (Note if from spray paint operations)	☐
Metals (NIOSH 7300) (Specify Metals Under Comments)	x
Other _____	☐
* Modified NIOSH 7500/OSHA ID 142	

Sample ID #	Description/Location	Volume/Area	Comments
122019-MetW-105-01	Field BLANK	—	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-02	Field BLANK	—	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-03	Field BLANK	—	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-04	1st floor Column G 21	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-05	1st floor Column G 18	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-06	1st floor Column A 21	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-07	1st floor Column F 11	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-08	1st floor Column C 13	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-09	1st floor Column H 1	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-10	2nd floor Column G 1	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-11	2nd floor Column C 4	1 sf	~~Ag, As, Ba, Cd, Pb, Se~~
122019-MetW-105-12	2nd floor Column E 9	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-13	2nd floor Column F 15	1 sf	Ag, As, Ba, Cd, Pb, Se

Total # of Samples 28

Relinquished by	Date/Time	Received by	Date/Time
(b) (6)	12/9/19 16:00	(b) (6)	12/12 10:30am

Accepted ☑ Rejected ☐

71931196

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: _____

Sample ID #	Description/Location	Volume/Area	Comments
122019-MetW-105-14	2nd floor Column B20	1 Sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-15	2nd floor Column F24	1 Sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-16	2nd floor Column E24	1 Sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-17	2nd floor Column E32	1 Sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-18	2nd floor Column D39 Room 315	1 Sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-19	2nd floor Column F44	1 Sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-20	2nd floor Column G47 Room 347	1 Sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-21	2nd floor Column E50	1 Sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-22	2nd floor Column H53	1 Sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-23	~~2nd~~ floor Column F52	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-24	1st 1st floor Column F49	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-25	1st floor Column H46	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-26	1st floor Column B43	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-27	1st floor Column H38	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-105-28	1st floor column J35	1 sf	Ag, As, Ba, Cd, Pb, Se

Appendix D

Qualifications and Licenses

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Justin E. Arnold

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:	**6/11/2018**
Expiration Date:	**6/11/2020**
License Number:	**120611-300003622**

(b) (6) [redacted]

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

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

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**

(b) (6)

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

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

Missouri Department of Health and Senior Services
P.O. Box 570, Jefferson City, MO 65102-0570 Phone: 573-751-6400 FAX: 573-751-6010
RELAY MISSOURI for Hearing and Speech Impaired and Voice dial: 711

Randall W. Williams, MD, FACOG
Director

Michael L. Parson
Governor

CONFIDENTIAL

December 10, 2018

Austin O'Byrne
OCCU-TEC
100 Northwest Business Park Lane
Riverside, MO 64150

Dear Mr. O'Byrne:

This letter concerns your recent application for a lead occupation license with the Missouri Department of Health and Senior Services' Lead Licensing Program. You scored **98%** on the state exam, therefore your application for a Lead Risk Assessor license is now complete.

Enclosed please find your Lead Risk Assessor license certificate and photo identification badge. If you intend to perform any regulated lead-bearing substance activities, you must be employed by a Missouri licensed lead abatement contractor. Please have your identification badge with you at all times while conducting lead abatement activities.

Note the date your Lead Risk Assessor license expires. A renewal notice will be mailed to you approximately four months prior to the expiration date, and your renewal application will need to be completed and submitted 60 days prior to the expiration date.

A requirement of renewing your license will be attending a Lead Risk Assessor refresher class. A list of Missouri certified lead abatement training providers will be included with your renewal notice. Additional information on training and lead abatement in general is located at http://health.mo.gov/safety/leadlicensing/index.php.

Please contact the Lead Licensing Program at (573) 526-5873 if you have any questions concerning this letter or on lead abatement regulations in general.

Sincerely,
(b) (6)
Angie DeBroeck
Lead Licensing Program

AKD:tp

Enclosures

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

Scientific Analytical Institute, Inc.

4604 Dundas Dr., Greensboro, NC 27407

Laboratory ID: 173190

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: November 01, 2020
✓	**ENVIRONMENTAL LEAD**	Accreditation Expires: November 01, 2020
✓	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires: November 01, 2020
☐	**FOOD**	Accreditation Expires:
✓	**UNIQUE SCOPES**	Accreditation Expires: November 01, 2020

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

(b) (6)

Elizabeth Bair
Chairperson, Analytical Accreditation Board

(b) (6)

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 17 – 09/11/2018

Date Issued: 10/31/2018

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

Scientific Analytical Institute, Inc.
4604 Dundas Dr., Greensboro, NC 27407

Laboratory ID: **173190**
Issue Date: 10/31/2018

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 03/01/2007

IHLAP Scope Category	Field of Testing (FoT) (FoTs cover all relevant IH matrices)	Technology sub-type/ Detector	Published Reference Method/Title of In-house Method	Method Description or Analyte (*for internal methods only*)
Chromatography Core	Ion Chromatography (IC)		NIOSH 7600	
			OSHA ID-215 v2	
Spectrometry Core	Atomic Absorption	CVAA	NIOSH 6009	
			OSHA ID-140	
		FAA	NIOSH 7082	
	Inductively-Coupled Plasma	ICP/AES	NIOSH 7300	
	X-ray Diffraction (XRD)		NIOSH 7500	
Asbestos/Fiber Microscopy Core	Polarized Light Microscopy (PLM)		EPA 600/R-93/116	
	Phase Contrast Microscopy (PCM)		NIOSH 7400	
	Transmission Electron Microscopy (TEM)		40 CFR Part 763 Subpart E Appendix A	
			AHERA	
			NIOSH 7402	
Miscellaneous Core	Gravimetric		NIOSH 0500	
			NIOSH 0600	

A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

Scientific Analytical Institute, Inc.
4604 Dundas Dr., Greensboro, NC 27407

Laboratory ID: **173190**
Issue Date: 10/31/2018

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air and composited wipes analyses are not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 03/01/2007

Field of Testing (FoT)	Technology sub-type/ Detector	Method	Method Description (*for internal methods only*)
Paint		EPA SW-846 3050B	
		EPA SW-846 6010C	
		EPA SW-846 7000B	
Soil		EPA SW-846 3050B	
		EPA SW-846 6010C	
		EPA SW-846 7000B	
Settled Dust by Wipe		EPA SW-846 3050B	
		EPA SW-846 6010C	
		EPA SW-846 7000B	
Airborne Dust		NIOSH 7082	

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

Scientific Analytical Institute, Inc.
4604 Dundas Dr., Greensboro, NC 27407

Laboratory ID: **173190**
Issue Date: 10/31/2018

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Environmental Microbiology Laboratory Accreditation Program (EMLAP)

Initial Accreditation Date: 04/01/2006

EMLAP Category	Field of Testing (FoT)	Method	Method Description (*for internal methods only*)
Fungal	Air - Culturable	B-SOP-007	Analysis of Viable Environmental Organisms
	Bulk - Culturable	B-SOP-007	Analysis of Viable Environmental Organisms
	Surface - Culturable	B-SOP-007	Analysis of Viable Environmental Organisms
	Air - Direct Examination	B-SOP-003	Spore Trap Analysis by Phase Contrast and Light Microscopy for the Analysis of Bioaerosols
	Bulk - Direct Examination	B-SOP-005	Analysis of Direct Exam Bulks/Swab/Tape
	Surface - Direct Examination	B-SOP-005	Analysis of Direct Exam Bulks/Swab/Tape

A complete listing of currently accredited Environmental Microbiology laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

Scientific Analytical Institute, Inc.
4604 Dundas Dr., Greensboro, NC 27407

Laboratory ID: **173190**
Issue Date: 10/31/2018

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Unique Scopes Laboratory Accreditation Program (Unique Scopes)

Initial Accreditation Date: 09/01/2014

Unique Scope Category	Field of Testing (FoT)	Method	Method Description *(for internal methods only)*
Consumer Product Testing	Lead in Paint and Other Similar Surface Coatings	CPSC-CH-E1003-09.1	L-SOP-014

A complete listing of currently accredited Unique Scope laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org