

Tub NW Business Park Lar Riverside, MO 64150 Telephone: 816.231.5580 Fax: 816.231.5641 www.occutec.com

June 8, 2018

Ms. Diane Czarnecki Industrial Hygienist Facilities Management Division GSA Public Buildings Service – Heartland Region 2300 Main Street Kansas City, Missouri 64108

RE: Goodfellow Federal Center - Metals in Air Investigation Buildings – 102E 4300 Goodfellow Boulevard St. Louis, Missouri 63120 OCCU-TEC Project No. 918004

Dear Ms. Czarnecki:

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

On April 20, 2018, Missouri licensed air sampling professionals from OCCU-TEC conducted air sampling for the presence of seven (7) of the RCRA metals including Silver, Arsenic, Barium, Cadmium, Chromium, Lead, and Selenium. Sampling was conducted at Building 102E.

The proposed sampling scheme, the numbers 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 OCCU-TEC field personnel while on-site.

Resource Conservation and Recovery Act Metals Air Sampling

Air sampling for RCRA metals was collected on 37-millimeter (mm) cassettes with 0.8 micrometer (µm) mixed cellulose ester (MCE) filters using powered air sampling pumps in accordance with National Institute for Occupational Safety and Health (NIOSH) sampling methodology. Samples were collected in a method sufficient to collect a minimum sample volume of 300 liters. Air samples were submitted under chain-of-custody to Scientific Analytical Institute, Inc. (SAI), for independent analysis of RCRA metals according to NIOSH method 7300. SAI is accredited by the American Industrial Hygiene Association (AIHA) utilizing the Industrial Hygiene Proficiency Analytical Testing (IHPAT) program. SAI's AIHA IHPAT Laboratory identification number is 173190.

Results of the air sampling are summarized in the table below by identifying the range of results for Building 102E for each of the seven (7) metals that were sampled. Samples with a "<" sign indicate that the results were below the laboratory's method reporting limit.

Analysis	Lowest	Highest
	Concentration	Concentration
	$(\mu g/m^3)$	$(\mu g/m^3)$
Silver Ag	<6.2	<6.2
Arsenic As	< 0.31	<3.1
Barium Ba	< 0.062	2.3
Cadmium Cd	< 0.062	< 0.62
Total Chromium Cr	<6.2	1.8
Lead Pb	< 0.31	10.0
Selenium Se	< 0.62	<6.2

Results indicate that **all** of the air samples collected from Building 102E contained concentrations of RCRA metals below the laboratory's method reporting limit or the OSHA Permissible Exposure Limit (PEL). Sample locations and the corresponding result are summarized in the enclosed laboratory analytical report. The air sampling professional's Missouri Lead license in included in Appendix B.

It should be noted that this air sampling investigation was only a screening of airborne RCRA metals and should not be interpreted or used to determine compliance or non-compliance with OSHA personnel monitoring regulations.

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,



Justin Arnold Environmental Scientist



Kevin Heriford Project Manager (QA/QC)

Appendices:

- A: Laboratory Analytical Results and Chain of Custody Documentation
- B: Qualifications and Licenses



Appendix A

Laboratory Analytical Report and Chain of Custody Documentation





NIOSH Method 7300



Client:	Occu-Tec, Inc 100 NW Business Park Ln Bivarcida, MO 64150	Attn:	Justin Arnold	Lab Order ID: Date Received:	11811088 05/04/2018 05/14/2018
Project:	918004.002			Page:	1 of 4

Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration	
Lab Sample ID	Lab Notes	(L)	Liement	Limit (µg)	(µg)	(μg/m ³)	
			Ag	2.0	<2.0	<6.2	
			As	0.10	<0.10	< 0.31	
102E-MetA18-	1 st Floor		Ba	0.020	< 0.020	< 0.062	
01	Column M21	323.2	Cd	0.020	< 0.020	< 0.062	
			Cr	0.20	0.57	1.8	
			Pb	0.10	<0.10	< 0.31	
11811088ICP_1			Se	0.20	<0.20	<0.62	
		323.2	Ag	2.0	<2.0	<6.2	
	1 st Floor		As	1.0	<1.0	<3.1	
102E-MetA18-			Ba	0.20	<0.20	<0.62	
02	Column N23		Cd	0.20	<0.20	<0.62	
			Cr	2.0	<2.0	<6.2	
			Pb	1.0	<1.0	<3.1	
11811088ICP_2			Se	2.0	<2.0	<6.2	
			Ag	2.0	<2.0	<6.2	
			As	1.0	<1.0	<3.1	
102E-MetA18-	1 st Floor		Ba	0.20	<0.20	<0.62	
03	Column O25	323.2	Cd	0.20	<0.20	<0.62	
			Cr	2.0	<2.0	<6.2	
			Pb	1.0	<1.0	<3.1	
11811088ICP_3			Se	2.0	<2.0	<6.2	

Taylor Davis

Analyst

(b) (6)

Lab Director



NIOSH Method 7300



Client:	Occu-Tec, Inc 100 NW Business Park I.n	Attn:	Justin Arnold	Lab Order ID: Date Received:	11811088 05/04/2018
Project:	Riverside, MO 64150 918004.002			Date Reported: Page:	05/14/2018 2 of 4

Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)	Element	Limit (µg)	(µg)	(µg/m ³)
			Ag	2.0	<2.0	<6.2
			As	1.0	<1.0	<3.1
102E-MetA18-	1 st Floor		Ba	0.20	<0.20	<0.62
04	Column L27	323.2	Cd	0.20	<0.20	<0.62
			Cr	2.0	<2.0	<6.2
			Pb	1.0	<1.0	<3.1
11811088ICP_4			Se	2.0	<2.0	<6.2
	2 nd Floor Column N21	323.2	Ag	2.0	<2.0	<6.2
			As	1.0	<1.0	<3.1
102E-MetA18-			Ba	0.20	<0.20	<0.62
05			Cd	0.20	<0.20	<0.62
			Cr	2.0	<2.0	<6.2
			Pb	1.0	<1.0	<3.1
11811088ICP_5			Se	2.0	<2.0	<6.2
			Ag	2.0	<2.0	<6.2
			As	1.0	<1.0	<3.1
102E-MetA18-	2 nd Floor		Ba	0.20	<0.20	<0.62
06	Column M22	323.2	Cd	0.20	<0.20	<0.62
			Cr	2.0	<2.0	<6.2
			Pb	1.0	<1.0	<3.1
11811088ICP_6			Se	2.0	<2.0	<6.2

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NIOSH Method 7300



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Project	Riverside, MO 64150 918004 002			Date Received. Date Reported: Page:	05/14/2018 3 of 4
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Sample ID	Description	Volume	Element	Reporting	Concentration	Concentration	
Lab Sample ID	Lab Notes	(L)	Element	Limit (µg)	(µg)	(μg/m ³)	
			Ag	2.0	<2.0	<6.2	
			As	1.0	<1.0	<3.1	
102E-MetA18-	2 nd Floor		Ba	0.20	<0.20	<0.62	
07	Column M26	323.2	Cd	0.20	<0.20	<0.62	
			Cr	2.0	<2.0	<6.2	
			Pb	1.0	<1.0	<3.1	
11811088ICP_7			Se	2.0	<2.0	<6.2	
			Ag	2.0	<2.0	<6.2	
	2 nd Floor	323.2	As	1.0	<1.0	<3.1	
102E-MetA18-			Ba	0.20	<0.20	<0.62	
08	Column N27		Cd	0.20	<0.20	<0.62	
			Cr	2.0	<2.0	<6.2	
			Pb	1.0	<1.0	<3.1	
11811088ICP_8			Se	2.0	<2.0	<6.2	
			Ag	2.0	<2.0	<6.2	
			As	1.0	<1.0	<3.1	
102E-MetA18-	Exterior Deef		Ba	0.20	0.73	2.3	
09	Exterior Kooi	323.2	Cd	0.20	<0.20	<0.62	
			Cr	2.0	<2.0	<6.2	
			Pb	1.0	3.3	10	
11811088ICP_9			Se	2.0	<2.0	<6.2	

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(b) (6)

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NIOSH Method 7300



Client:	Occu-Tec, Inc 100 NW Business Park Ln	Attn:	Justin Arnold	Lab Order ID: Date Received:	11811088 05/04/2018
	Riverside, MO 64150			Date Reported:	05/14/2018
Project:	918004.002			Page:	4 of 4

Sample ID	Description	Volume (L)ElementReporting Limit (µg)Concentration (µg)		Concentration		
Lab Sample ID	Lab Notes			Limit (µg)	concentration (μg)	(μg/m ³)
	0 Blank		Ag	2.5	<2.5	
		0	As	0.13	< 0.13	
102E-MetA18-10			Ba	0.025	< 0.025	
			Cd	0.025	< 0.025	
			Cr	0.25	0.41	
			Pb	0.13	< 0.13	
11811088ICP_10			Se	0.25	<0.25	

Taylor Davis

Analyst

(b) (6)

Lab Director



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

www.sailab.com

Phone: 336.292.3888 Fax: 336.292.3313 lab@sailab.com



Company Contact Information	
Company: OCCU-TCC	Contact: Justin Arnold
Address: 100 NW Basiness Park Lane	Phone : 814-810-3274
Riverside, MO 64150	Fax : 814-994-3478
	Email : jamold Baccuter.com

Billing/Invoice Information Turn Around Tim				
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 av	ailable	for certain test types	
PO Number: 232018061				
Project Name/Number: 918004,002				

Industrial Hygiene Test Types			
Silica as Alpha Quartz (XSZ)* With Respirable Dust (XDZ)			
Silica as Cristobalite (XSC)*			
Silice as Tridymite (XST)* With Respirable Dust (XDT)			
Silica as Alpha Quartz, Cristobalite, Tridymit (XSA)*			
Silica Bulk (XSI)*			
Bulk Phase ID/Whole Rock (XUK)			
Total Dust NIOSH Method 0500 (GTD)			
Respirable Dust NIOSH Method 9600 (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)			
Other RCRAS US 45	X		
* Modified NIOSH 7500/OSHA ID 14	2		

Sample ID #	Description/Location	Volume/Area	Comments
102E-MetA18-01	1st floor Column MZI	323.2 L	
102E-MetA18-02	1st Floor Column NZ3	323.2 L	
102E-MetA18-03	1st floor Column 0 25	323.2 L	
IOZE-MEHA18-04	1st floor Column L 27	323.2 L	
102E-MotAl8-OS	2nd Floor Column N 21	323.2 L	
102E - MeHA18-OU	2nd Floor Column M.22	323.2 L	
102E-MetA18-07	2nd floor Column M24	323.2 L	
102E - MetA 18-08	2nd floor Column N 27	323.2 L	conted M
102E-MatA18-09	Exterior Roof	323.2 L AC	Lepter -
107E-MatA18-10	BLANK		
		R	ejected L

Total # of Samples 9

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		4-20-18		Pa	igeof

Appendix B Qualifications and Licenses





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 1-800-735-2966 VOICE 1-800-735-2466 Peter Lyskowski



Jeremiah W. (Jay) Nixon Governor

May 27, 2016

Justin Arnold Occu-Tec, Inc. 100 NW Business Park Lane Riverside, MO 64150

Acting Director

Dear Licensee:

After review of your renewal application for a license with the Missouri Department of Health and Senior Services' Lead Licensing Program, your application for a Lead Risk Assessor license has been approved.

Enclosed is your Lead Risk Assessor license certificate and photo identification badge. 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 application and information will be mailed to you approximately three months before your license expiration date and will need to be completed and submitted 60 days prior to the expiration date.

A requirement of renewing your application will be attending a Lead Risk Assessor refresher class. A list of Missouri accredited lead abatement training providers will be included in your renewal packet. Additional information on training and lead abatement in general can be found at http://health.mo.gov/safety/leadlicensing/index.php.

Please contact the Lead Licensing Program at (573) 526-5873 or (888) 837-0927 if you have any questions concerning this letter or on lead abatement regulations in general.



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