



9000 Commerce Parkway, Suite B  
 Mount Laurel, NJ 08054  
 Toll Free 877-428-4285  
 Local: 856-231-9449  
 Fax: 856-231-9818

# CERTIFICATE OF ANALYSIS

<b>Client:</b> Jacobs Technology Bldg 1100; Room 213 Stennis Space Ctr. MS 39529	<b>Report Date:</b> 7/26/2013 <b>Report Number:</b> 310956 <b>Project:</b> B-2 Deflector 7-18-13 <b>Project No.:</b> 6110-2013
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## LEAD PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
5076428	01	Inside Side Wall Of Deflector	0.013***
<hr style="border-top: 1px dashed #000;"/>			
5076429	02	Top Of Deflector	0.18***
<hr style="border-top: 1px dashed #000;"/>			
5076430	03	Outside Wall Of Deflector	0.1***
<hr style="border-top: 1px dashed #000;"/>			

**Accreditations:** **NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)**  
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

**Analytical Methods:** ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"  
 EPA SW846-(3050B:7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

**Comments:** Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0044% by weight. RL= 0.010% by weight (based upon 100 mg sampled). \* Insufficient sample provided to perform QC reanalysis (<200 mg) \*\* Not enough sample provided to analyze (<50 mg) \*\*\* Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

**Date Received:** 7/26/2013  
**Date Analyzed:** 7/26/2013  
**Analyst:** \_\_\_\_\_

**Approved By:** (b)(4)  
 Laboratory Director

## DAILY QUALITY CONTROL DATA

### LEAD SAMPLE ANALYSIS

(DATE: 07/26/13)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	100
Lab control Std # 401	0.455	101
Matrix Spike - LBP *	1.04	106
Matrix Spike - Wipe *	0.95	103
Matrix Spike - Soil *	0.199	93
Matrix spike - Air *	0.050	98
2.5 ppm Standard	0.25	96
10.0 ppm Standard	1.0	101
40.0 ppm Standard	4.0	100

AIHA LAP-LLC No. 100188

NYS-DOH ELAP No. 11021

Analysis Method: ASTM D3335-85A  
NIOSH 7082  
EPA SW846 3050B 7000B

Comments: IATL assumes that all sampling complies with accepted methods.  
All client supplied sampling data is assumed to be correct when calculating results.  
Detection limit based upon 0.2 mg/L reporting limit and sample size.  
\* NIST Traceable.  
\*\* 80-120% acceptable limits.

Analyzed By:

(b)(4)

Approved By:

(b)(4)

Date:

7/26/13

60110-2013



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054  
Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

# Chain of Custody

- Environmental Lead -

<b>Contact Information</b>	
Client Company: <u>Jacobs FOSC</u>	Project Number: <u>60110-2013</u>
Office Address: <u>Stennis Space Center</u>	Project Name: <u>BR-2 Deflector</u>
City, State, Zip: <u>Waveland MS 39529</u>	Primary Contact: <u>(b)(4)</u>
Fax Number: <u>228 688-6456</u>	Office Phone: <u>(b)(4)</u>
Email Address: <u>(b)(4)</u>	Cell Phone: _____

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

**Matrix/Method:**

- Paint by AAS: ASTM D3335-85a, 2009
- Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
- Air by AAS: NIOSH 7082, 1994
- Soil by AAS: EPA SW 846 (Soil)
- Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010
- Other Metals (Cd, Zn, Cr) by AAS
- Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311
- Other \_\_\_\_\_

**Special Instructions:**

**E-MAILED**  
1427 7/26

**Turnaround Time**

Preliminary Results Requested/Date: 22 July 13  Verbal  Email  Fax

Specify date / time

10 Day  5 Day  3 Day  2 Day  1 Day\*  12 Hour\*\*  6 Hour\*\*  RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

**Chain of Custody**

Relinquished (Name/Organization): <u>(b)(4)</u>	Date: <u>25 July 13</u>	Time: <u>1:55 PM</u>
Received (Name / iATL): <u>(b)(4)</u>	Date: <u>25</u>	Time: _____
Sample Login (Name / iATL): <u>(b)(4)</u>	Date: _____	Time: _____
Analysis (Name(s) / iATL): <u>(b)(4)</u>	Date: _____	Time: _____
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: <u>IATL - E</u>

**CEIVED**

## Sample Log

—Environmental Lead—

Client: Jacobs Project: \_\_\_\_\_

Sampling Date/Time: 18 July 13

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft <sup>2</sup> ) Volume (L)	Results ( )
01	5076428	Inside side wall of Deflector			Bulk		
02	5076429	Top of Deflector			1'		
03	5076430	Outside wall of Deflector			1'		

\* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)  
 \*\* = Insufficient Sample Provided to Analyze (<50mg) \*\*\* = Matrix / Substrate Interference Possible  
 FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.  
 These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.



(b)(4)

August 09, 2013

Jacobs FOSC Group  
Building 1100  
213 G  
Stennis Space Center, MS 39529

DOH ELAP# 11626  
AIHA # 100324

Account# (b)(4)

Login# (b)(4)

Dear (b)(4)

Enclosed are the analytical results for the samples received by our laboratory on August 05, 2013. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report.

Current Scopes of Accreditation can be viewed at [www.galsonlabs.com](http://www.galsonlabs.com) in the accreditations section under the "about Galson" tab.

Please contact (b)(4) if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories

(b)(4)

Laboratory Director

Enclosure(s)



LABORATORY ANALYSIS REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

Client : Jacobs FOSC Group
Site : B-Stand
Project No. : 6116-2013
Date Sampled : 01-AUG-13
Date Received : 05-AUG-13
Date Analyzed : 06-AUG-13
Report ID : 792993

Account No. : (b)(4)
Login No. : (b)(4)

Lead

Table with 5 columns: Sample ID, Lab ID, Area cm2, Total ug, Conc ug/cm2. Rows include BLANK, 01-LEVEL 7 B STAND, 02-LEVEL 7 B STAND, 03-LEVEL 1 B STAND, 04-ELEVATOR, 05-LEVEL 1.

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.3 ug Submitted by: mlh/kml
Analytical Method : mod. NIOSH 9102/SW846 6010C; ICP GAUZE Approved by : keg
OSHA PEL (TWA) : NA Date : 07-AUG-13 NYS DOH # : 11626
Collection Media : Gauze QC by: (b)(4)

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms
> -Greater Than ug -Micrograms l -Liters NS -Not Specified
NA -Not Applicable ND -Not Detected ppm -Parts per Million



LABORATORY FOOTNOTE REPORT

6601 Kirkville Road  
East Syracuse, NY 13057  
(315) 432-5227  
FAX: (315) 437-0571  
www.galsonlabs.com

Client Name : Jacobs FOSC Group  
Site : B-Stand  
Project No. : 6116-2013

Date Sampled : 01-AUG-13  
Date Received: 05-AUG-13  
Date Analyzed: 06-AUG-13

Account No.: (b)(4)  
Login No. : (b)(4)

Unless otherwise noted below, all quality control results associated with the samples were within established control limits.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded in order to fit the report format and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L296732 (Report ID: 792993):

Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.

SOPs: MT-SOP-9(24), im-hbleadwp(13)

@ L296732 (Report ID: 792993):

Samples were unidentified, client provided media. LOQ may not be applicable as it was derived from studies performed using Galson provided gauze wipes.

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< -Less Than	mg -Milligrams	m <sup>3</sup> -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	

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6601 Kirkville Rd  
 East Syracuse, NY 13057  
 Tel: (315) 432-5227  
 888-432-LABS (5227)  
 Fax: (315) 437-0571  
 www.galsonlabs.com

New Client?

Report To: (b)(4)

Client Account No.:

Stennis Space Center  
 Wave Land MS 39529

Phone No.:

Cell No.:

Email Results to:

Email address:

(b)(4)

Invoice To:

Same

Phone No.:

Email:

P.O. No.:

Credit Card:

Card on File

Call for Credit Card Info.

R9

Samples submitted using the FreePumpLoan™ Program

Samples submitted using the FreeSamplingBadges™ Program

Need Results By: (surcharge)

<input type="checkbox"/> Standard	0%
<input type="checkbox"/> 4 Business Days	35%
<input type="checkbox"/> 3 Business Days	50%
<input type="checkbox"/> 2 Business Days	75%
<input type="checkbox"/> Next Day by 6pm	100%
<input type="checkbox"/> Next Day by Noon	150%
<input type="checkbox"/> Same Day	200%

Site Name: B-Stand

Project: 6116-2013

Sampled by: (b)(4)

Comments: Conducted Lead wipe samples

List description of industry or Process/interferences present in sampling area:

Lead Abatement outside of Building

State samples were collected in (e.g., NY):

MS

Please indicate which OEL this data will be used for:

OSHA PEL  ACGIH TLV  Cal OSHA  
 MSHA  Other (specify):

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units* L, ml, min, in2, cm2, ft2	Analysis Requested*	Method Reference*	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
EXAMPLE	04/24/13	2pc UW PVC	960	L	Hexavalent Chromium (Cr6)	Mod OSHA ID-215	Welding
Lead wipe samples	1 Aug 13	Wipe	100cm		Lead		
Blank	"	"	"		"		
01 - Level 7 BStand	STAIRS	"	100cm		"		
02 - Level 7 "	Area	"	"		"		
03 - Level 1 "	Area	"	"		"		
04 Elevator	Area	"	"		"		
05 - Level 1	Horizontal Surface	"	"		"		

\*Galson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked:  Use method(s) listed on COC

For metals analysis: If requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite):

Chain of Custody	(b)(4)	Date	Time	Received by:	(b)(4)	Date	Time
Relinquished by:	(b)(4)	2 Aug	1330	Received by:	(b)(4)	8/2/13	
Relinquished by:	(b)(4)			Received by:	(b)(4)	8/15/13	826

Samples received after 3pm will be considered as next  
 \* Required fields, failure to complete these fields may result in a delay



## NASA Environmental Services Laboratory

Operated by A2Research  
Environmental Laboratory  
Bldg 8100 Rm112  
Lab. I.D.# MS00903  
228-688-2065

April 11, 2014

Laboratory Batch Number(s): 140318B

Report Generated by:

(b)(4)

Customer: NASA Environmental

For: Jenette Gordon / (b)(4)

### B Stand Soil

On March 18<sup>th</sup> Science Laboratory Services collected eight (8) soil samples from the B Stand Area per request by FOOSC Environmental for Metals and PCB analyses. Sample point locations were documented using GPS. The samples were assigned laboratory identification numbers as indicated on the attached chain of custody. Results follow on pages two (2) thru nine (9) of this report.

**SAMPLE RESULTS - BATCH 140318B**

09-Apr-14

Project: Other

Customer: FOSC

**Field Sample ID: B STAND SOIL #1****List Type:** % Solids

Sample ID: 141210

Matrix: Soil

Analyst: (b)(4)

Analyte

% Solids

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/2/2014 2:55:00 PM

Concentration Units  
69.6 %**List Type:** ICP Metals - EPA Method 200.7

Sample ID: 141210

Matrix: Soil

Analyst: (b)(4)

Analyte

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/4/2014 2:12:00 PM

Concentration	Units
0.06	mg/kg
2027	mg/kg
0.38	mg/kg
< 0.03	mg/kg
37.4	mg/kg
0.11	mg/kg
1.69	mg/kg
15.5	mg/kg
84.9	mg/kg
294	mg/kg
11.6	mg/kg
404	mg/kg
0.94	mg/kg
0.37	mg/kg
2437	mg/kg
1.30	mg/kg
60.5	mg/kg
43.9	mg/kg
< 0.18	mg/kg
8.68	mg/kg
737	mg/kg

CAS No.	Analyte
007440-22-4	Ag328.
007429-90-5	Al309.
007440-38-2	As189.
007440-42-8	B249.7
007440-39-3	Ba455.
007440-41-7	Be313.
007440-43-9	Cd228.
007440-47-3	Cr267.
007440-50-8	Cu327.
007439-96-5	Mn257.
007440-02-0	Ni221.
007439-92-1	Pb220.
007440-36-0	Sb206.
007782-49-2	Se196.
007440-21-3	Si251.
007440-31-5	Sn189.
007440-24-6	Sr407.
007440-32-6	Ti334.
007440-28-0	Tl190.
007440-62-2	V292.4
007440-66-6	Zn213.

Comments: Metals reported in mg/kg according to dry sample weight

**List Type:** PCBs - Method 8082

Sample ID: 141210

Matrix: Soil

Analyst: (b)(4)

Analyte

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/9/2014 12:42 PM

Concentration Units  
0.12 mg/kg

CAS No.	Analyte
001336-36-3	Aroclor 1254

Comments: PCBs reported in mg/kg according to dry sample weight

**SAMPLE RESULTS - BATCH 140318B**

09-Apr-14

Project: Other

Customer: FOSC

**Field Sample ID: B STAND SOIL #2****List Type: % Solids**

Sample ID: 141211

Matrix: Soil

Analyst: (b)(4)

Analyte  
% Solids

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/2/2014 2:55:00 PM

Concentration Units  
86.2 %**List Type: ICP Metals - EPA Method 200.7**

Sample ID: 141211

Matrix: Soil

Analyst: (b)(4)

Analyte

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/4/2014 2:23:10 PM

Concentration Units

CAS No.	Analyte	Concentration	Units
007440-22-4	Ag328.	< 0.02	mg/kg
007429-90-5	Al309.	1055	mg/kg
007440-38-2	As189.	< 0.11	mg/kg
007440-42-8	B249.7	< 0.03	mg/kg
007440-39-3	Ba455.	7.69	mg/kg
007440-41-7	Be313.	0.041	mg/kg
007440-43-9	Cd228.	0.063	mg/kg
007440-47-3	Cr267.	1.87	mg/kg
007440-50-8	Cu327.	4.00	mg/kg
007439-96-5	Mn257.	48.0	mg/kg
007440-02-0	Ni221.	1.65	mg/kg
007439-92-1	Pb220.	85.0	mg/kg
007440-36-0	Sb206.	< 0.11	mg/kg
007782-49-2	Se196.	< 0.21	mg/kg
007440-21-3	Si251.	1228	mg/kg
007440-31-5	Sn189.	0.47	mg/kg
007440-24-6	Sr407.	12.4	mg/kg
007440-32-6	Ti334.	14.6	mg/kg
007440-28-0	Tl190.	< 0.18	mg/kg
007440-62-2	V292.4	5.20	mg/kg
007440-66-6	Zn213.	90.5	mg/kg

Comments: Metals reported in mg/kg according to dry sample weight

**List Type: PCBs – Method 8082**

Sample ID: 141211

Matrix: Soil

Analyst: (b)(4)

Analyte

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/9/2014 12:57 PM

Concentration Units  
0.96 mg/kgCAS No.  
001336-36-3 Aroclor 1254

Comments: PCBs reported in mg/kg according to dry sample weight

**SAMPLE RESULTS - BATCH 140318B**

09-Apr-14

Project: Other

Customer: FOSC

**Field Sample ID: B STAND SOIL #5****List Type:** % Solids

Sample ID: 141214

Matrix: Soil

Analyst: (b)(4)

Analyte  
% Solids

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/2/2014 2:55:00 PM

Concentration  
77.2                      Units  
%**List Type:** ICP Metals - EPA Method 200.7

Sample ID: 141214

Matrix: Soil

Analyst: (b)(4)

Analyte

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/4/2014 2:37:28 PM

Concentration                      Units

CAS No.		Concentration	Units
007440-22-4	Ag328.	< 0.02	mg/kg
007429-90-5	Al309.	3312	mg/kg
007440-38-2	As189.	1.83	mg/kg
007440-42-8	B249.7	< 0.03	mg/kg
007440-39-3	Ba455.	22.7	mg/kg
007440-41-7	Be313.	0.15	mg/kg
007440-43-9	Cd228.	0.152	mg/kg
007440-48-4	Co228.	15.9	mg/kg
007440-47-3	Cr267.	1.00	mg/kg
007440-50-8	Cu327.	15.5	mg/kg
007439-96-5	Mn257.	156	mg/kg
007440-02-0	Ni221.	6.01	mg/kg
007439-92-1	Pb220.	193	mg/kg
007440-36-0	Sb206.	0.75	mg/kg
007782-49-2	Se196.	< 0.21	mg/kg
007440-21-3	Si251.	2522	mg/kg
007440-31-5	Sn189.	1.28	mg/kg
007440-24-6	Sr407.	66.3	mg/kg
007440-32-6	Ti334.	18.2	mg/kg
007440-28-0	Tl190.	< 0.18	mg/kg
007440-62-2	V292.4	14.2	mg/kg
007440-66-6	Zn213.	121	mg/kg

Comments: Metals reported in mg/kg according to dry sample weight

**List Type:** PCBs - Method 8082

Sample ID: 141214

Matrix: Soil

Analyst: (b)(4)

Analyte

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/9/2014 2:14 PM

Concentration                      Units  
0.71                      mg/kgCAS No.                      Aroclor 1254  
001336-36-3

Comments: PCBs reported in mg/kg according to dry sample weight

**SAMPLE RESULTS - BATCH 140318B**

09-Apr-14

Project: Other

Customer: FOSC

**Field Sample ID: B STAND SOIL #6****List Type:** % Solids

Sample ID: 141215

Matrix: Soil

Analyst: (b)(4)

Analyte  
% Solids

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/2/2014 2:55:00 PM

Concentration  
90.7 %  
Units**List Type:** ICP Metals - EPA Method 200.7

Sample ID: 141215

Matrix: Soil

Analyst: (b)(4)

Analyte

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/4/2014 2:48:40 PM

Concentration  
Units

CAS No.	Analyte	Concentration	Units
007440-22-4	Ag328.	0.05	mg/kg
007429-90-5	Al309.	1139	mg/kg
007440-38-2	As189.	1.58	mg/kg
007440-42-8	B249.7	< 0.03	mg/kg
007440-39-3	Ba455.	19.4	mg/kg
007440-41-7	Be313.	0.064	mg/kg
007440-43-9	Cd228.	1.01	mg/kg
007440-48-4	Co228.	17.02	mg/kg
007440-47-3	Cr267.	1.72	mg/kg
007440-50-8	Cu327.	19.0	mg/kg
007439-96-5	Mn257.	131	mg/kg
007440-02-0	Ni221.	10.1	mg/kg
007439-92-1	Pb220.	241	mg/kg
007440-36-0	Sb206.	3.92	mg/kg
007782-49-2	Se196.	0.39	mg/kg
007440-21-3	Si251.	1458	mg/kg
007440-31-5	Sn189.	0.81	mg/kg
007440-24-6	Sr407.	136	mg/kg
007440-32-6	Ti334.	22.2	mg/kg
007440-28-0	Tl190.	< 0.18	mg/kg
007440-62-2	V292.4	8.87	mg/kg
007440-66-6	Zn213.	188	mg/kg

Comments: Metals reported in mg/kg according to dry sample weight

**List Type:** PCBs – Method 8082

Sample ID: 141215

Matrix: Soil

Analyst: (b)(4)

Analyte

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/9/2014 2:29 PM

Concentration  
0.46  
Units  
mg/kgCAS No.  
001336-36-3 Aroclor 1254

Comments: PCBs reported in mg/kg according to dry sample weight

**SAMPLE RESULTS - BATCH 140318B**

09-Apr-14

Project: Other

Customer: FOSC

**Field Sample ID: B STAND SOIL #7****List Type:** % Solids

Sample ID: 141216

Matrix: Soil

Analyst: (b)(4)

Analyte

% Solids

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/2/2014 2:55:00 PM

Concentration Units  
84 %**List Type:** ICP Metals - EPA Method 200.7

Sample ID: 141216

Matrix: Soil

Analyst: (b)(4)

Analyte

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/4/2014 2:52:38 PM

Concentration Units

CAS No.		Concentration	Units
007440-22-4	Ag328.	0.18	mg/kg
007429-90-5	Al309.	2623	mg/kg
007440-38-2	As189.	1.63	mg/kg
007440-42-8	B249.7	< 0.03	mg/kg
007440-39-3	Ba455.	21.6	mg/kg
007440-41-7	Be313.	0.14	mg/kg
007440-43-9	Cd228.	1.00	mg/kg
007440-48-4	Co228.	17.65	mg/kg
007440-47-3	Cr267.	1.66	mg/kg
007440-50-8	Cu327.	23.8	mg/kg
007439-96-5	Mn257.	111	mg/kg
007440-02-0	Ni221.	10.0	mg/kg
007439-92-1	Pb220.	581	mg/kg
007440-36-0	Sb206.	0.54	mg/kg
007782-49-2	Se196.	< 0.21	mg/kg
007440-21-3	Si251.	2098	mg/kg
007440-31-5	Sn189.	1.07	mg/kg
007440-24-6	Sr407.	8.45	mg/kg
007440-32-6	Ti334.	38.4	mg/kg
007440-28-0	Tl190.	< 0.18	mg/kg
007440-62-2	V292.4	9.53	mg/kg
007440-66-6	Zn213.	222	mg/kg

Comments: Metals reported in mg/kg according to dry sample weight

**List Type:** PCBs - Method 8082

Sample ID: 141216

Matrix: Soil

Analyst: (b)(4)

Analyte

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/9/2014 2:45 PM

Concentration Units  
0.60 mg/kgCAS No.  
001336-36-3 Aroclor 1254

Comments: PCBs reported in mg/kg according to dry sample weight

**SAMPLE RESULTS - BATCH 140318B**

09-Apr-14

Project: Other

Customer: FOSC

**Field Sample ID: B STAND SOIL #8****List Type:** % Solids

Sample ID: 141217

Matrix: Soil

Analyst: (b)(4)

Analyte  
% Solids

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/2/2014 2:55:00 PM

Concentration Units  
80.4 %**List Type:** ICP Metals - EPA Method 200.7

Sample ID: 141217

Matrix: Soil

Analyst: (b)(4)

Analyte

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/4/2014 2:56:10 PM

Concentration Units

CAS No.	Analyte	Concentration	Units
007440-22-4	Ag328.	0.029	mg/kg
007429-90-5	Al309.	1642	mg/kg
007440-38-2	As189.	< 0.11	mg/kg
007440-42-8	B249.7	< 0.03	mg/kg
007440-39-3	Ba455.	12.2	mg/kg
007440-41-7	Be313.	0.085	mg/kg
007440-43-9	Cd228.	0.36	mg/kg
007440-48-4	Co228.	18.39	mg/kg
007440-47-3	Cr267.	1.76	mg/kg
007440-50-8	Cu327.	46.9	mg/kg
007439-96-5	Mn257.	103	mg/kg
007440-02-0	Ni221.	13.8	mg/kg
007439-92-1	Pb220.	240	mg/kg
007440-36-0	Sb206.	1.24	mg/kg
007782-49-2	Se196.	< 0.21	mg/kg
007440-21-3	Si251.	1552	mg/kg
007440-31-5	Sn189.	2.47	mg/kg
007440-24-6	Sr407.	5.80	mg/kg
007440-32-6	Ti334.	22.6	mg/kg
007440-28-0	Tl190.	< 0.18	mg/kg
007440-62-2	V292.4	10.8	mg/kg
007440-66-6	Zn213.	150	mg/kg

Comments: Metals reported in mg/kg according to dry sample weight

**List Type:** PCBs – Method 8082

Sample ID: 141217

Matrix: Soil

Analyst: (b)(4)

Analyte

Date Received: 3/18/2014 12:47:18 PM

Date Analyzed: 4/9/2014 3:00 PM

Concentration Units  
0.80 mg/kgCAS No.  
001336-36-3 Aroclor 1254

Comments: PCBs reported in mg/kg according to dry sample weight

NASA ENVIRONMENTAL  
SCIENCE LABORATORY SERVICES  
STENNIS SPACE CENTER  
STENNIS, MS 39529  
228-688-1447 688-1039 (Fax)

CHAIN-OF-CUSTODY RECORD

ANALYSIS REQUEST  
Project Name: **B Stand Soil Samples**  
C-O-C Number: BATCH 140318B

PAGE 1 OF 1

SAMPLER(S) NAME		(b)(4)		NASA Environmental Office - SSC Ph (228) 688-7384		(b)(4)		03-18-14		12:47					
SAMPLER(S) SIGNATURE		(b)(4)		Bldg 1100 Rm 3012B, Stennis Space Center, MS 39529		(b)(4)		3.18.14		12:47					
REPORT DATE		FAX (228)688-2660		SAMPLE DESTROYED BY		DATE		TIME							
Sample Information				Analyses desired				Preservative							
Sampling year is: 2014				(G)rab or (C)omposite				Temperature on Arrival _____ C°							
DATE	TIME	NUMBER OF CONTAINERS	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE NAME	Total Metals	PCBs					MNO3	HCl	H2SO4	NaOH
03/18/14	11:44	1	G	141210	B Stand Soil Sample # 1	X	X								
03/18/14	11:50	1	G	141211	B Stand Soil Sample # 2	X	X								
03/18/14	11:58	1	G	141212	B Stand Soil Sample # 3	X	X								
03/18/14	12:04	1	G	141213	B Stand Soil Sample # 4	X	X								
03/18/14	12:09	1	G	141214	B Stand Soil Sample # 5	X	X								
03/18/14	12:15	1	G	141215	B Stand Soil Sample # 6	X	X								
03/18/14	12:15	1	G	141216	B Stand Soil Sample # 7	X	X								
03/18/14	12:25	1	G	141217	B Stand Soil Sample # 8	X	X								
REMARKS:															
XX51 - OPFL - 00 00 - b stand soil samples															



ID	X	Y
1	748697.0714	316996.4353
2	748644.469	316865.69
3	749027.081	317029.259
4	749082.9239	317048.7371
5	749110.2888	316962.2231
6	749123.8424	316899.8136
7	749143.2033	316844.5284
8	749214.7141	316867.053

Page 61 redacted for the following reason:

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(b)(7)



9000 Commerce Parkway, Suite B  
 Mount Laurel, NJ 08054  
 Toll Free 877-428-4285  
 Local: 856-231-9449  
 Fax: 856-231-9818

# CERTIFICATE OF ANALYSIS

<b>Client:</b> Jacobs Technology Bldg 1100; Suite 213G Stennis Space Ctr. MS 39529	<b>Report Date:</b> 1/5/2015 <b>Report Number:</b> 353752 <b>Project:</b> B2 East Pier Handrail <b>Project No.:</b> 6510-2014
--	--

## LEAD PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
5516146	6510-2014-001	Paint Grey On Orange B2 East Pier South Stairwell	31
5516147	6510-2014-002	Paint Grey On Orange B2 East Pier North Stairwell	55

**Accreditations:** **NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)**  
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

**Analytical Methods:** ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"  
 EPA SW846-(3050B:7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

**Comments:** Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0044% by weight. RL= 0.010% by weight (based upon 100 mg sampled). \* Insufficient sample provided to perform QC reanalysis (<200 mg) \*\* Not enough sample provided to analyze (<50 mg) \*\*\* Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

**Date Received:** 12/31/2014  
**Date Analyzed:** 1/5/2015  
**Analyst:** (b)(4)

**Approved By:**

(b)(4)

Laboratory Director

## Chain of Custody

– Environmental Lead –


<b>Contact Information</b>	
<b>Client Company:</b> <u>Jacobs (Stennis Space Center)</u>	<b>Project Number:</b> <u>6510-2014</u>
<b>Office Address:</b> <u>Building 1100 Suite 213G</u>	<b>Project Name:</b> <u>B2 East Pier Handrail</u>
<b>City, State, Zip:</b> <u>Stennis Space Center, MS 39529</u>	<b>Primary Contact:</b> <span style="background-color: black; color: red; padding: 2px;">(b)(4)</span>
<b>Fax Number:</b> <u>228.688.6456</u>	<b>Office Phone:</b> <span style="background-color: black; color: red; padding: 2px;">(b)(4)</span>
<b>Email Address:</b> <span style="background-color: black; color: red; padding: 2px;">(b)(4)</span>	<b>Cell Phone:</b> _____

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

**Matrix/Method:**

- Paint by AAS: ASTM D3335-85a, 2009
- Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
- Air by AAS: NIOSH 7082, 1994
- Soil by AAS: EPA SW 846 (Soil)
- Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010
- Other Metals (Cd, Zn, Cr) by AAS
- Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311
- Other \_\_\_\_\_

**Special Instructions:**  
Please analyze for lead and total chromium. (b)(4)



**Turnaround Time**

Preliminary Results Requested Date: \_\_\_\_\_


Specific date / time

10 Day  
  5 Day  
  3 Day  
  2 Day  
  1 Day\*  
  12 Hour\*\*  
  6 Hour\*\*  
  RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

**Chain of Custody**

Relinquished (Name/Organization): <span style="background-color: black; color: red; padding: 2px;">(b)(4)</span>	Date: <u>12/30/14</u> Time: _____
Received (Name / iATL): _____	Date: _____ Time: _____
Sample Login (Name / iATL): _____	Date: <u>1/13/15</u> Time: _____
Analysis(Name(s) / iATL): <span style="background-color: black; color: red; padding: 2px;">(b)(4)</span>	Date: _____ Time: _____
QA/QC Review (Name / iATL): _____	Date: _____ Time: _____
Archived / Released: _____ QA/QC InterLAB Use: _____	Date: _____ Time: _____


(b)(4)

## Sample Log

### — Environmental Lead —

Client: Jacos (Stennis Space Center) Project: 6510-2014

Sampling Date/Time: 12/26/2014; 1430 hours

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft <sup>2</sup> ) Volume (L)	Results ( )
6510-2014-001	5516146	B2 East Pier South Stairwell/Paint-Grey on Orange	-	-	-	-	
6510-2014-002	5516147	B2 East Pier North Stairwell/Paint-Grey on Orange	-	-	-	-	

\* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)  
 \*\* = Insufficient Sample Provided to Analyze (<50mg) \*\*\* = Matrix / Substrate Interference Possible  
 FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.  
 These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

# Purchase Order

**JACOBS TECHNOLOGY INC.**  
**Building 2204**  
**Stennis Space Center, MS. 39529-6000**

**Purchase Order Number:** (b)(4)

**MOD:** 0

Show our Purchase Order No. on all invoices, shipping papers, containers, and correspondence.

<b>Vendor:</b> INTERNATIONAL ASBESTOS TESTING LAB 9000 COMMERCE PARKWAY SUITE B MT LAUREL, NJ 08054 Attn: N/A	<b>Ship To:</b> JACOBS TECHNOLOGY BLDG 2204 STENNIS SPACE CENTER, MS 39529
---	--

<b>Vendor Code:</b> 4965	<b>Date:</b> 29-DEC-2014	<b>Ship Via:</b> FEDX OVERNT	Allot. No. Rating Certified under DMS. Regulation No. 1 <b>DO-09</b>
<b>Direct Inquiries to:</b>		<b>F.O.B.:</b> DESTINATION	
<b>Buyer:</b> (b)(4)		<b>Terms:</b> NET 30	<b>Contract No.</b> NNS07AB21C

**Business Size:** SMALL BUSINESS

**Delivery Schedule:** When equipment is to be delivered under this order, it should be delivered to the "Ship To" address above no later than: 31-JAN-2015

**Description**

For a complete list of the Supplies/Services to be provided under this order - See the Continuation sheets

This Purchase Order is Exempt from Mississippi Sales/Use Taxes pursuant to Regulation A, Permit Number JB215320-23.

"The Seller is responsible for the delivery of each item quantity within allowable variations, if any. If the Seller delivers and Jacobs Technology Inc. receives quantities of any item in excess of the quantity called for (after considering any allowable variations in quantity), such excess quantities will be treated as being delivered for the convenience of the Seller. Jacobs Technology Inc. may retain such excess quantities up to **\$250** in value without compensating the Seller therefor, and the Seller waives all rights, title or interests therein. Quantities in excess of **\$250** will, at the option of Jacobs Technology Inc., **either be returned at the Seller's expense or be retained and paid for by Jacobs Technology Inc.** at the contract unit price."

Three copies of the packing list shall be included in each shipment. Two copies inside and one copy on the outside of container number one (1). Submit bills of lading or other pertinent documentation to support freight cost in excess of **\$50.00**. Immediately prior to shipment Seller shall notify Buyer of all shipping information and estimated time of arrival.

**Jacobs FOSC Group STANDARD PROVISIONS, are made a part hereof and incorporated by reference.**

**THIS ORDER IS PLACED PURSUANT TO NASA PRIME CONTRACT NUMBER: NNS07AB21C.**

This is a DO-09 rated order certified for national defense use, and the Contractor shall follow all the requirements of the Defense Priorities and Allocations Systems Regulation (15 CFR 700)

Your order is hereby acknowledged and accepted Shipment will be made in accordance with above schedule	Mail all Invoices Direct to  Jacobs Technology Inc. Stennis Space Center Building 1100 RM 1017B Stennis Space Center, MS. 39529-6000 Attention: Accounts Payable
Date of Acceptance _____	(b)(4)
Vendor's Name _____	
Accredited Signing Party and Title _____	Original

**JACOBS TECHNOLOGY INC.**  
**Building 2204**  
**Stennis Space Center, MS. 39529-6000**

# Purchase Order

**Purchase Order Number:** (b)(4)  
**MOD:** 0

Show our Purchase Order No. on all invoices, shipping papers, containers, and correspondence.

		Quantity	Unit	Unit Price	Extended Price
<b>Item: 1</b>	Desc: PR IS INITIATED TO COVER COSTS FOR ANALYSIS OF 2 SAMPLES BEING SHIPPED TO IATL. THE SAMPLES WERE COLLECTED FROM THE B2 TEST STAND EAST PIER STAIRWELLS AND WILL BE ANALYZED FOR LEAD AND CHROMIUM. EHP-6510-2014. SEND THE ANALYSIS REPORT TO (b)(4)				
Model No					
Part No:		2	EA	\$31.00	\$62.00
New NSN#: -----					
Warranty Months:					
	VPR Code1: 01		Equipment: No	VPR Code3:	VPR Code4:
<b>Item: 2</b>	Desc: COST OF SHIPPING SAMPLES OVERNIGHT PRIORITY FROM SSC TO THE LAB				
Model No					
Part No:		1	EA	\$25.00	\$25.00
New NSN#:					
Warranty Months:					
	VPR Code1: 01		Equipment: No	VPR Code3:	VPR Code4:
			VPR Code2:		
<b>Total PO Price:</b>					<b>\$87.00</b>

All correspondence and remittances to:

**JACOBS TECHNOLOGY INC.**

**Building 2204**

**Stennis Space Center, MS. 39529-6000**

## Purchase Order

Page: 3 of 3

**Purchase Order Number:**

(b)(4)

**MOD: 0**

Show our Purchase Order No. on all invoices, shipping papers, containers, and correspondence.

Special Instructions:

None



## DAILY QUALITY CONTROL DATA

### LEAD SAMPLE ANALYSIS

(DATE: 01 / 05 / 15 )

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	98
Lab Control Std	1.530	96
Matrix Spike - LBP *	0.30	106
Matrix Spike - Wipe *	0.28	102
Matrix Spike - Soil *	0.369	93
Matrix spike - Air *	0.050	104
2.5 ppm Standard	0.25	96
10.0 ppm Standard	1.0	100
40.0 ppm Standard	4.0	99

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Analysis Method: ASTM D3335-85A  
NIOSH 7082  
EPA SW846 3050B 7000BComments: IATL assumes that all sampling complies with accepted methods.  
All client supplied sampling data is assumed to be correct when calculating results.  
Detection limit based upon 0.2 mg/L reporting limit and sample size.  
\* NIST Traceable.  
\*\* 80-120% acceptable limits.

Analyzed By:

(b)(4)

Approved By

(b)(4)

Date:

1/5/15

Laboratory Director

## Chain of Custody

– Environmental Lead –

<b>Contact Information</b>	
<b>Client Company:</b> <u>Jacobs (Stennis Space Center)</u>	<b>Project Number:</b> <u>6533-2015</u>
<b>Office Address:</b> <u>Building 1100 Suite 213G</u>	<b>Project Name:</b> <u>B1 L8 Vessels</u>
<b>City, State, Zip:</b> <u>Stennis Space Center, MS 39529</u>	<b>Primary Contact:</b> <span style="background-color: black; color: red; padding: 2px;">(b)(4)</span>
<b>Fax Number:</b> <u>228.688.6456</u>	<b>Office Phone:</b> <span style="background-color: black; color: red; padding: 2px;">(b)(4)</span>
<b>Email Address:</b> <span style="background-color: black; color: red; padding: 2px;">(b)(4)</span>	<b>Cell Phone:</b> _____

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

**Matrix/Method:**

Paint by AAS: ASTM D3335-85a, 2009

Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010

Air by AAS: NIOSH 7082, 1994

Soil by AAS: EPA SW 846 (Soil)

Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010

Other Metals (Cd, Zn, Cr) by AAS

Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311

Other \_\_\_\_\_

**Special Instructions:**  
Please analyze for lead and total chromium.

PO (b)(4)

EMAILED  
 2/16/15 AB

**Turnaround Time**

Preliminary Results Requested Date: Same Day  Verbal  Email  Fax

Specific date / time

10 Day  5 Day  3 Day  2 Day  1 Day\*  12 Hour\*\*  6 Hour\*\*  RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

**Chain of Custody**

Relinquished (Name/Organization):	<span style="background-color: black; color: red; padding: 2px;">(b)(4)</span>	Date:	<u>2/17/15</u>	Time:	<u>2:30 PM</u>
Received (Name / iATL):		Date:		Time:	
Sample Login (Name / iATL):		Date:	<u>2/16/15</u>	Time:	
Analysis(Name(s) / iATL):	<span style="background-color: black; color: red; padding: 2px;">(b)(4)</span>	Date:		Time:	<u>FEB -6 2015</u>
QA/QC Review (Name / iATL):		Date:		Time:	
Archived / Released:		Date:		Time:	<span style="background-color: black; color: red; padding: 2px;">(b)(4)</span>

RECEIVED  
 FEB -6 2015

## Sample Log

– Environmental Lead –

Client: Jacobs (Stennis Space Center) Project: 6533-2015

Sampling Date/Time: 2/5/2015, 1300

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft <sup>2</sup> ) Volume (L)	Results ( )
6533-2015-001	5544470	B1 L8 North Vessel					
6533-2015-002	5544471	B1 L8 North Vessel					

\* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)  
\*\* = Insufficient Sample Provided to Analyze (<50mg) \*\*\* = Matrix / Substrate Interference Possible  
FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.  
These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

## DAILY QUALITY CONTROL DATA

### LEAD SAMPLE ANALYSIS

(DATE: 02 / 06 / 15 )

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	106
Lab Control Std	1.300	97
Matrix Spike - LBP *	0.27	99
Matrix Spike - Wipe *	0.33	102
Matrix Spike - Soil *		
Matrix spike - Air *		
2.5 ppm Standard	0.25	101
10.0 ppm Standard	1.0	102
40.0 ppm Standard	4.0	98

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Analysis Method: ASTM D3335-85A  
NIOSH 7082  
EPA SW846 3050B 7000B

Comments: IATL assumes that all sampling complies with accepted methods.  
All client supplied sampling data is assumed to be correct when calculating results.  
Detection limit based upon 0.2 mg/L reporting limit and sample size.  
\* NIST Traceable.  
\*\* 80-120% acceptable limits.

Analyzed By

(b)(4)

Approved By

(b)(4)

Date:

2/6/15

Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Jacobs Technology  
Bldg 1100; Suite 213G  
Stennis Space Ctr. MS 39529

**Report Date:** 2/6/2015  
**Report Number:** 355906  
**Project:** B1 L8 Vessels  
**Project No.:** 6533-2015

### CHROMIUM PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Description / Location</u>	<u>Chromium Concentration (% By Weight)</u>
155544470	6533-2015-001	B1 L8 North Vessel	0.033
155544471	6533-2015-002	B1 L8 North Vessel	0.39

**Analysis Methods:** ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Chromium In Paint By Atomic Absorption Spectrophotometry"  
EPA SW846-(7420/7421) "Standard Method To Test For Low Concentrations Of Chromium In Soils, Sludges and Sediments By AAS"

**Comments:** Recommend multiple sampling for all samples less than regulatory limit for confirmation. IATL assumes that all of the sampling methods and data upon which these results are based, have been accurately supplied by the client. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.50 ppm RL= 0.013% by weight (based upon 100 mg sampled).  
Insufficient sample provided to perform QC reanalysis (<200 mg) \*\* Not enough sample provided to analyze (<50 mg) \*\*\* Matrix / substrate interference possible. \*

**Date Received:** 2/6/2015

**Date Analyzed:** 2/6/2015

**Analyst:** (b)(4)

**Approved By:** (b)(4)  
Laboratory Director

## Chain of Custody

– Environmental Lead –

**Contact Information**

<b>Client Company:</b> <u>Jacobs (Stennis Space Center)</u>	<b>Project Number:</b> <u>6533-2015</u>
<b>Office Address:</b> <u>Building 1100 Suite 213G</u>	<b>Project Name:</b> <u>B1 L8 Vessels</u>
<b>City, State, Zip:</b> <u>Stennis Space Center, MS 39529</u>	<b>Primary Contact:</b> <span style="background-color: black; color: red;">(b)(4)</span>
<b>Fax Number:</b> <u>228.688.6456</u>	<b>Office Phone:</b> <span style="background-color: black; color: red;">(b)(4)</span>
<b>Email Address:</b> <span style="background-color: black; color: red;">(b)(4)</span>	<b>Cell Phone:</b> _____

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

**Matrix/Method:**

- Paint by AAS: ASTM D3335-85a, 2009
- Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
- Air by AAS: NIOSH 7082, 1994
- Soil by AAS: EPA SW 846 (Soil)
- Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010
- Other Metals (Cd, Zn, Cr) by AAS
- Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311
- Other \_\_\_\_\_

**E-MAILED**  
2/16/15 RB

**Special Instructions:**

Please analyze for lead and total chromium.

PO (b)(4)

**Turnaround Time**

Preliminary Results Requested Date: Same Day  Verbal  Email  Fax  
Specific date / time  
 10 Day  5 Day  3 Day  2 Day  1 Day\*  12 Hour\*\*  6 Hour\*\*  RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

**Chain of Custody**

Relinquished (Name/Organization): <span style="background-color: black; color: red;">(b)(4)</span>	Date: <u>2/17/15</u>	Time: _____	<div style="border: 1px solid black; padding: 10px; display: inline-block;"> <b>RECEIVED</b>  <b>FEB - 6 2015</b>  <b>IATL</b> </div>
Received (Name / iATL):	Date: _____	Time: _____	
Sample Login (Name / iATL):	Date: <u>2/16/15</u>	Time: _____	
Analysis(Name(s) / iATL): <span style="background-color: black; color: red;">(b)(4)</span>	Date: _____	Time: _____	
QA/QC Review (Name / iATL):	Date: _____	Time: _____	
Archived / Released: _____ QA/QC InterLAB Use: _____	Date: _____	Time: _____	

(b)(4)

# Sample Log

## —Environmental Lead—

Client: Jacobs (Stennis Space Center) Project: 6533-2015

Sampling Date/Time: 2/5/2015, 1300

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft <sup>2</sup> ) Volume (L)	Results ( )
6533-2015-001	5544470	B1 L8 North Vessel					
6533-2015-002	5544471	B1 L8 North Vessel					

\* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)  
 \*\* = Insufficient Sample Provided to Analyze (<50mg) \*\*\* = Matrix / Substrate Interference Possible  
 FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.  
 These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

## DAILY QUALITY CONTROL DATA

### CHROMIUM SAMPLE ANALYSIS

(DATE: 02 / 06 / 15 )

Standard	Total Chromium (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	107
Matrix Spike - LBP *	0.05	92
Matrix Spike - Wipe *		
Matrix Spike - Soil *		
Matrix spike - Air *		
0.75 ppm Standard	0.75	104
5.0 ppm Standard	5.0	101
10.0 ppm Standard	10.0	100

AIHA-LAP, LCC No. 100188

AIHA Cert No. 444

Analysis Method: ASTM D3335-85A  
NIOSH 7024  
EPA SW846 3050 7420/21

Comments: IATL assumes that all sampling complies with accepted methods.  
All client supplied sampling data is assumed to be correct when calculating results.  
Detection limit based upon 0.25 mg/L reporting limit and sample size.  
\* NIST Traceable.  
\*\* 80-120% acceptable limits.

Analyzed By:

(b)(4)

Approved

(b)(4)

Laboratory Director

Date:

2/6/15



## Chain of Custody

– Environmental Lead –

<b>Contact Information</b>	
<b>Client Company:</b> <u>Jacobs (Stennis Space Center)</u> <b>Office Address:</b> <u>Building 100, Suite 213D</u> <b>City, State, Zip:</b> <u>Stennis Space Center, MS, 39529</u> <b>Fax Number:</b> _____ <b>Email Address:</b> <u>(b)(4)</u>	<b>Project Number:</b> <u>6534-2015</u> <b>Project Name:</b> <u>B2 Soft Core</u> <b>Primary Contact:</b> <u>(b)(4)</u> <b>Office Phone:</b> _____ <b>Cell Phone:</b> _____

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

**Matrix/Method:**

- Paint by AAS: ASTM D3335-85a, 2009
- Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
- Air by AAS: NIOSH 7082, 1994
- Soil by AAS: EPA SW 846 (Soil)
- Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010
- Other Metals (Cd, Zn, Cr) by AAS
- Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311
- Other \_\_\_\_\_

**Special Instructions:** P.O. (b)(4)

**E-MAILED**  
 2/10/15 NG

**Turnaround Time**

Preliminary Results Requested Date: 1/9/15  Verbal  Email  Fax

Specific date / time

10 Day 
  5 Day 
  3 Day 
  2 Day 
  1 Day\* 
  12 Hour\*\* 
  6 Hour\*\* 
  RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

<b>Chain of Custody</b>	
Relinquished (Name/Organization): <u>(b)(4)</u>	Date: <u>2/6/15</u> Time: <u>12:50 PM</u>
Received (Name / iATL): <u>(b)(4)</u>	Date: <u>2/6/2015</u> Time: _____
Sample Login (Name / iATL): _____	Date: <u>2/10/15</u> Time: _____
Analysis(Name(s) / iATL): _____	Date: _____ Time: <u>FEB 10 2015</u>
QA/QC Review (Name / iATL): _____	Date: _____ Time: _____
Archived / Released: _____ QA/QC InterLAB Use: _____	Date: _____ Time: _____
IATL By _____	<u>(b)(4)</u>

## Sample Log

–Environmental Lead–

Client: Jacobs (Stennis Space Center) Project: 6534-2015

Sampling Date/Time: 2/5/2015

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
001	5546484	Cleanroom floor				100 cm2	
002	5546485	21 ft. outside cleanroom entrance				100 cm2	
003	5546486	2 ft. outside cleanroom entrance				156.45 cm2	
004	5546487	31 ft. outside cleanroom entr., Facility Spares				100 cm2	
005	5546488	8 ft. outside cleanroom entr., elevator call panel				100 cm2	
006	5546489	Level 12, below cleanroom entrance				100 cm2	
007	5546490	Inside west elevator, floor				100 cm2	
008	5546491	Inside #2 (west) elevator, call panel				100 cm2	
009	5546492	(Blank)				0 cm2	

\* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)  
 \*\* = Insufficient Sample Provided to Analyze (<50mg) \*\*\* = Matrix / Substrate Interference Possible  
 FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.  
 These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.



National Aeronautics and  
Space Administration  
**John C. Stennis Space Center**  
Stennis Space Center, MS 39529-6000

## REQUEST FOR SHIPPING NOTICE

(Implemented by NPG 4100.1)

SHIP TO:

International Asbestos Testing Laboratory  
9000 Commerce Parkway, Suite B  
Mt. Laurel, New Jersey 08054  
Ph. 877-428-4285, 856-231-9449  
Fx. 856-231-9818

IMPORTANT INSTRUCTION:

SN No.

THE MATERIAL LISTED BELOW IS BEING SHIPPED TO YOU FOR THE FOLLOWING REASONS:

- |  |   |  |  |
|--|---|--|--|
| <input type="checkbox"/> REPAIR OR REPLACE AT VENDOR'S EXPENSE                                   | <input type="checkbox"/> LOAN             | <input type="checkbox"/> NOT TO BE RETURNED (NO CHARGE)                  | <input type="checkbox"/> RETURN FOR CREDIT           |
| <input type="checkbox"/> INSPECT, ADVISE REPAIR COST<br>OBTAIN AUTHORIZING P.O. BEFORE REPAIRING | <input type="checkbox"/> RETURN OF A LOAN | <input type="checkbox"/> INCORRECT MATERIAL<br>NOT ABLE TO IDENTIFY      | <input checked="" type="checkbox"/> OTHER, SEE BELOW |
| <input type="checkbox"/> TO BE INCORPORATED IN OTHER EQUIPMENT<br>BEING BUILT FOR US             | <input type="checkbox"/> OVERSHIPMENT     | <input type="checkbox"/> FOR PROCESSING BY YOU<br>PER INSTRUCTIONS BELOW |  |

THIS MATERIAL WAS ORIGINALLY SHIPPED TO US ON OUR ORDER

DISCREP. AND CORRECTION NO.

TERMS OF THAT ORDER STILL APPLY

QUANTITY	U/I	DESCRIPTION	FOR ACCOUNTING USE ONLY	
			UNIT PRICE	TOTAL PRICE
		Surface wipe samples		

REMARKS:

P.O.

(b)(4)

ADDRESS ALL CORRESPONDENCE TO:

SHIPPING

APPROVED BY:

CHECKED BY	(b)(4)	FROM	SSC
PACKED BY	(b)(4)	HOW SHIPPED	UPS
BOX TYPE	1 UPS	WAYBILL NO.	
MARKED BY	(b)(4)	CAR INITIALS NO.	
SHIPPED BY	(b)(4)	<input checked="" type="checkbox"/> PREPAID <input type="checkbox"/> COLLECT <input type="checkbox"/> BY CONSIGNEE	
WEIGHT	7 lbs	TRANSPORTATION CHGS. \$	

DATE 2/16/2015

REQUESTOR

(b)(4)

EXT.  
8-1234

## DAILY QUALITY CONTROL DATA

### LEAD SAMPLE ANALYSIS

(DATE: 02 / 10 / 15)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	105
Lab Control Std	1.320	103
Matrix Spike - LBP *	0.37	107
Matrix Spike - Wipe *	0.37	105
Matrix Spike - Soil *	0.379	98
Matrix spike - Air *	0.050	98
2.5 ppm Standard	0.25	96
10.0 ppm Standard	1.0	100
40.0 ppm Standard	4.0	101

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Analysis Method: ASTM D3335-85A  
NIOSH 7082  
EPA SW846 3050B 7000B

Comments: IATL assumes that all sampling complies with accepted methods.  
All client supplied sampling data is assumed to be correct when calculating results.  
Detection limit based upon 0.2 mg/L reporting limit and sample size.  
\* NIST Traceable.  
\*\* 80-120% acceptable limits.

Analyzed By:

(b)(4)

Approved By

(b)(4)

Date:

2/10/15

Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Jacobs Technology  
Bldg 1100; Suite 213G  
Stennis Space Ctr. MS 39529

**Report Date:** 2/10/2015  
**Report Number:** 356104  
**Project:** B2 Soft Core; 2/5/15  
**Project No.:** 6534-2015

### LEAD WIPE SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Area Sampled (ft<sup>2</sup>)</u>	<u>Concentration (µg/ft<sup>2</sup>)</u>
5546484	001	Cleanroom; FL	0.11	<93.0
5546485	002	21' Outside Cleanroom Entrance	0.11	730.0
5546486	003	2' Outside Cleanroom Entrance	0.17	12000.0
5546487	004	31' Outside Cleanroom Entrance Facility Spares	0.11	500.0
5546488	005	8' Outside Cleanroom Entrance Elevator Call Panel	0.11	<91.0
5546489	006	Level 12; Below Cleanroom Entrance	0.11	41000.0
5546490	007	Inside West Elevator; FL	0.11	1000.0
5546491	008	Inside #2; West Elevator; Call Panel	0.11	320.0
5546492	009	Blank	Blank	<10.0 ug

**Accreditation:**

### NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

**Analysis Method:**

EPA SW846-3050B:7000B "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges And Sediments By AAS"

**Comments:**

Regulatory limit varies by surface location (EPA/HUD guidelines). Unless otherwise stated, results assume one square foot sampled. Method requires submittal of blanks. IATL assumes that all of the sampling methods and data upon which these results are based, have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD= 0.2 ppm MDL=4.4 µg/ft<sup>2</sup> RL=10.0 µg/ft<sup>2</sup> (based upon 1.0 square foot sampled). The EPA 403 Final Rule (40 CFR 745.63) requires that all wipe samples of settled dust shall be collected using a wipe that meets ASTM E1792. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

**Date Received:** 2/10/2015

**Date Analyzed:** 2/10/2015

**Analyst:** (b)(4)

**Approved By**

(b)(4)

(b)(4)  
Laboratory Director

B-Stand Soft-core  
Lead Wipe Samples  
3-30-2015



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only)

1885

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Company: <u>JACOBS FOSC GROUP</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**		
Street: <u>BUILDING 1100 SUITE 213G</u>		Third Party Billing requires written authorization from third party		
City: <u>FARMIS SAUCE CENTER</u>	State/Province: <u>MS</u>	Zip/Postal Code: <u>39529</u>	Country: <u>USA</u>	
Report To (Name): <u>(b)(4)</u>	Telephone #: <u>(b)(4)</u>			
Email Address: <u>(b)(4)</u>	Fax #: <u>228.688.6456</u>	Purchase Order:		
Project Name/Number: <u>0544-2015</u>	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email			
U.S. State Samples Taken: <u>MS</u>	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt			
Turnaround Time (TAT) Options* - Please Check <input checked="" type="checkbox"/> 3 Hour <input checked="" type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week				
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM non ASTM <input type="checkbox"/> <small>*if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>
Name of Sampler: <u>3/30/2015</u>		Signature of Sampler: <u>(b)(4)</u>		
Sample #	Location	Volume/Area	Date/Time Sampled	
33015-001	L11 FLOOR BOTTOM OF STAIRWELL	1 ft <sup>2</sup>	3/30/15, 9-3	
33015-002	L11 FLOOR BEHIND GATE C1109	"	"	
33015-003	L11 FLOOR UNDER GN HEATER PANEL	"	"	
33015-004	L11 TOP OF LIGHT FIXTURE	"	"	
33015-005	L11 BEAM N. WALL 3' HIGH	"	"	
Client Sample #'s	<u>001 - 04</u>	Total # of Samples:	<u>4</u>	
Relinquished (Client):	<u>(b)(4)</u>	Date:	Time:	
Received (Lab):	<u>(b)(4)</u>	Date: <u>3/31/15</u>	Time: <u>8:00 AM</u>	
Comments:				

*Reg. Entry*



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

**LEAD (Pb) CHAIN OF CUSTODY**  
**EMSL ORDER ID (Lab Use Only):**

1885

EMSL ANALYTICAL, INC  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
33015-006	L11 FLOOR IN FRONT C1103	1ft <sup>2</sup>	3/30/15 9-3p
33015-007	L12 FLOOR BOTTOM OF STAIRWELL	"	"
33015-008	L12 C1200 STORAGE DOOR <del>GATE DOOR</del>	"	"
33015-009	L12 TOP OF LIGHT FIXTURE	"	"
33015-010	L12 BEAM ON WEST WALL 5' HIGH	"	"
33015-011	L13 C1307 STORAGE DOOR	"	"
33015-012	L13 HANDRAIL	"	"
33015-013	L14 NORTH HANDRAIL	"	"
33015-014	L14 SOUTH HANDRAIL	"	"
33015-015	L14 BEAM NE CORNER	"	"
33015-016	L15 BEAM NORTH	"	"
33015-017	L15 SOUTH HANDRAIL	"	"
33015-018	L15 1/2 STAIRWELL LANDING	"	"
33015-019	L15 TOP OF H <sub>2</sub> O TANK 2	"	"
33015-020	L16 BEAM - SOUTH 6' HIGH	"	"
33015-021	L16 MIDDLE HANDRAIL	"	"
33015-022	L16 SECOND STEP	"	"
33015-023	L16 TOP OF LIGHT FIXTURE	"	"
Comments/Special Instructions:			





EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

**LEAD (Pb) CHAIN OF CUSTODY**  
**EMSL ORDER ID (Lab Use Only):**

1885

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
33015-024	L17 Transformer 001574	144 in <sup>2</sup>	3/30/15
33015-025	Level 7 I-Beam NE Corner 5" up	144 in <sup>2</sup>	3/30/15
33015-026	L17 Top of <del>beam</del> <del>structure</del> Elevation		
33015-027	<del>Top of Light fixture</del> Top of Light fixture		
33015-028	I-Beam South Wall		
33015-029	Top of Electrical Panel 117		
33015-030	I-beam SW Corner	144 in <sup>2</sup>	
33015-031	Top of Unit Northwest		
33015-032	I-beam North East		
33015-033	Top of Light fixture		
33015-034	Top of Light fixture		
33015-035	Table in C104		
33015-036	<del>Table in C104</del> Floor in C104		
33015-037	I-Beam NW 5" up		
33015-038	I-Beam on East wall		
33015-039	Handrail		
33015-040	<del>I-beam South</del> I-beam South		
33015-041	Light fixture above fire extinguisher		

Comments/Special Instructions:

Page 3 of 3 pages



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO:  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**  
Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 03/31/15 8:00 AM  
Collected: 3/30/2015  
Project: 6544-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
33015-001 Site: L11 Flr Bottom of Stairwell	251501885-0001	3/30/2015	3/31/2015	144 in <sup>2</sup>	2400 µg/ft <sup>2</sup>
33015-002 Site: L11 Flr Behind Gate C1109	251501885-0002	3/30/2015	3/31/2015	144 in <sup>2</sup>	3900 µg/ft <sup>2</sup>
33015-003 Site: L11 Flr Under GN Heater Panel	251501885-0003	3/30/2015	3/31/2015	144 in <sup>2</sup>	920 µg/ft <sup>2</sup>
33015-004 Site: L11 Top of Light Fixture	251501885-0004	3/30/2015	3/31/2015	144 in <sup>2</sup>	790 µg/ft <sup>2</sup>
33015-005 Site: L11 Beam N Wall 3' High	251501885-0005	3/30/2015	3/31/2015	144 in <sup>2</sup>	300 µg/ft <sup>2</sup>
33015-006 Site: L11 Flr in Front C1103	251501885-0006	3/30/2015	3/31/2015	144 in <sup>2</sup>	210 µg/ft <sup>2</sup>
33015-007 Site: L12 Flr Bottom of Stairwell	251501885-0007	3/30/2015	3/31/2015	144 in <sup>2</sup>	1200 µg/ft <sup>2</sup>
33015-008 Site: L12 C1206 Storage Door	251501885-0008	3/30/2015	3/31/2015	144 in <sup>2</sup>	110 µg/ft <sup>2</sup>
33015-009 Site: L12 Top of Light Fixture	251501885-0009	3/30/2015	3/31/2015	144 in <sup>2</sup>	590 µg/ft <sup>2</sup>
33015-010 Site: L12 Beam on W Wall 5' High	251501885-0010	3/30/2015	3/31/2015	144 in <sup>2</sup>	260 µg/ft <sup>2</sup>
33015-011 Site: L13 C1307 Storage Door	251501885-0011	3/30/2015	3/31/2015	144 in <sup>2</sup>	160 µg/ft <sup>2</sup>
33015-012 Site: L13 Handrail	251501885-0012	3/30/2015	3/31/2015	144 in <sup>2</sup>	33 µg/ft <sup>2</sup>
33015-013 Site: L14 N Handrail	251501885-0013	3/30/2015	3/31/2015	144 in <sup>2</sup>	140 µg/ft <sup>2</sup>
33015-014 Site: L14 S Handrail	251501885-0014	3/30/2015	3/31/2015	144 in <sup>2</sup>	21 µg/ft <sup>2</sup>
33015-015 *** Site: L14 Beam NE Corner *** Not submitted.	251501885-0015	3/30/2015		n/a	µg/wipe

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft<sup>2</sup> x area sampled in ft<sup>2</sup>. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/31/2015 13:07:32



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO:  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**  
Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 03/31/15 8:00 AM  
Collected: 3/30/2015  
Project: 6544-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
33015-016 Site: L15 Beam N	251501885-0016	3/30/2015	3/31/2015	144 in <sup>2</sup>	580 µg/ft <sup>2</sup>
33015-017 Site: L15 S Handrail	251501885-0017	3/30/2015	3/31/2015	144 in <sup>2</sup>	1000 µg/ft <sup>2</sup>
33015-018 Site: L15 1/2 Stairwell Landing	251501885-0018	3/30/2015	3/31/2015	144 in <sup>2</sup>	1600 µg/ft <sup>2</sup>
33015-019 Site: L15 Top of H2O Tank 2	251501885-0019	3/30/2015	3/31/2015	144 in <sup>2</sup>	620 µg/ft <sup>2</sup>
33015-020 Site: L16 Beam S 6' High	251501885-0020	3/30/2015	3/31/2015	144 in <sup>2</sup>	200 µg/ft <sup>2</sup>
33015-021 Site: L16 Middle Handrail	251501885-0021	3/30/2015	3/31/2015	144 in <sup>2</sup>	34 µg/ft <sup>2</sup>
33015-022 Site: L16 Second Step	251501885-0022	3/30/2015	3/31/2015	144 in <sup>2</sup>	1600 µg/ft <sup>2</sup>
33015-023 Site: L16 Top of Light Fixture	251501885-0023	3/30/2015	3/31/2015	144 in <sup>2</sup>	570 µg/ft <sup>2</sup>
33015-024 Site: L17 Transformer 001374	251501885-0024	3/30/2015	3/31/2015	144 in <sup>2</sup>	71 µg/ft <sup>2</sup>
33015-025 Site: Level 17 I Beam NE Corner	251501885-0025	3/30/2015	3/31/2015	144 in <sup>2</sup>	220 µg/ft <sup>2</sup>
33015-026 Site: L17 Top of Table Tray	251501885-0026	3/30/2015	3/31/2015	144 in <sup>2</sup>	1500 µg/ft <sup>2</sup>
33015-027 Site: Top of Light Fixture	251501885-0027	3/30/2015	3/31/2015	144 in <sup>2</sup>	400 µg/ft <sup>2</sup>
33015-028 Site: I-Beam S	251501885-0028	3/30/2015	3/31/2015	144 in <sup>2</sup>	330 µg/ft <sup>2</sup>
33015-029 Site: Top of Electrical Panel LP-117	251501885-0029	3/30/2015	3/31/2015	144 in <sup>2</sup>	3300 µg/ft <sup>2</sup>
33015-030 Site: I beam SW Corner	251501885-0030	3/30/2015	3/31/2015	144 in <sup>2</sup>	31 µg/ft <sup>2</sup>

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft<sup>2</sup> x area sampled in ft<sup>2</sup>. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/31/2015 13:07:32



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	
ProjectID:	

Attn: (b)(4)  
**Jacobs FOSC Group**  
**Building 1100**  
**Stennis Space Center**  
**Waveland, MS 39529**

Phone: (b)(4)  
 Fax: (228) 688-3368  
 Received: 03/31/15 8:00 AM  
 Collected: 3/30/2015

Project: 6544-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
33015-031 Site: Top of Unit NW	251501885-0031	3/30/2015	3/31/2015	144 in <sup>2</sup>	220 µg/ft <sup>2</sup>
33015-032 Site: I-Beam NE	251501885-0032	3/30/2015	3/31/2015	144 in <sup>2</sup>	510 µg/ft <sup>2</sup>
33015-033 Site: Top of Light at C1803	251501885-0033	3/30/2015	3/31/2015	144 in <sup>2</sup>	8100 µg/ft <sup>2</sup>
33015-034 Site: Floor	251501885-0034	3/30/2015	3/31/2015	144 in <sup>2</sup>	1600 µg/ft <sup>2</sup>
33015-035 Site: Table in C904	251501885-0035	3/30/2015	3/31/2015	144 in <sup>2</sup>	100 µg/ft <sup>2</sup>
33015-036 Site: Floor in 904	251501885-0036	3/30/2015	3/31/2015	144 in <sup>2</sup>	1000 µg/ft <sup>2</sup>
33015-037 Site: I Beam NW 5" up	251501885-0037	3/30/2015	3/31/2015	144 in <sup>2</sup>	300 µg/ft <sup>2</sup>
33015-038 Site: Beam on E Wall	251501885-0038	3/30/2015	3/31/2015	144 in <sup>2</sup>	39 µg/ft <sup>2</sup>
33015-039 Site: Handrail	251501885-0039	3/30/2015	3/31/2015	144 in <sup>2</sup>	15 µg/ft <sup>2</sup>
33015-040 Site: I-Beam 2' up S Wall	251501885-0040	3/30/2015	3/31/2015	144 in <sup>2</sup>	180 µg/ft <sup>2</sup>
33015-041 Site: Light fixture above fire extinguisher	251501885-0041	3/30/2015	3/31/2015	144 in <sup>2</sup>	1200 µg/ft <sup>2</sup>

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft<sup>2</sup> x area sampled in ft<sup>2</sup>. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/31/2015 13:07:32



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

1212

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Company: Jacobs FOSC Group  
 Street: Building 1100, Ste 2136  
 City: Stennis Space Center State/Province: MS Zip/Postal Code: 39529 Country: USA  
 Report To (Name): (b)(4) Telephone #: (b)(4)  
 Email Address: (b)(4) Fax #: 228-688-6456 Purchase Order: (b)(4)  
 Project Name/Number: 6544-2015 Please Provide Results:  Fax  Email  
 U.S. State Samples Taken: MS CT Samples:  Commercial/Taxable  Residential/Tax Exempt

Turnaround Time (TAT) Options\* - Please Check  
 3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week  
 \*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: \_\_\_\_\_ Signature of Sampler: \_\_\_\_\_

Sample #	Location	Volume/Area	Date/Time Sampled
3315-001	Middle Table	159 foot	3/3/15 8:00 am
3315-002	Microwave Table	↓ 154 inches ↓	↓
3315-003	Floor near Refrigerator		
3315-004	Floor near Entrance		
3315-005	Microwave Turntable		
3315-006			

Client Sample #'s: 3315-001 - 3315-011 Total # of Samples: 11

Relinquished (Client): (b)(4) Date: 3/3/15 3/9/15 Time: 2:30pm 2:30pm

Received (Lab): (b)(4) Date: 3/04/15 Time: 11:20 am

Comments:

*Reg. Index*



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

LEAD (Pb) CHAIN OF CUSTODY  
EMSL ORDER ID (Lab Use Only):

1212

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
3315-006	Middle Table	1 sq foot	3/3/15 1330
3315-007	Microwave Table	↓	↓
3315-008	Floor near refrigerator		
3315-009	Floor near entrance	↓	↓
3315-010	N/A	N/A	—
3315-011	N/A	N/A	—

Comments/Special Instructions: Please email Results to:  

(b)(4)

Controlled Document — Lead (Pb) COC — R6 — 6/12/2012



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO: (b)(4)  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 03/04/15 11:20 AM  
Collected: 3/3/2015

Project: 6544-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
3315-001 Site: Middle Table	251501212-0001	3/3/2015	3/4/2015	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
3315-002 Site: Microwave Table	251501212-0002	3/3/2015	3/4/2015	144 in <sup>2</sup>	16 µg/ft <sup>2</sup>
3315-003 Site: Floor Near Refridgerator	251501212-0003	3/3/2015	3/4/2015	144 in <sup>2</sup>	1200 µg/ft <sup>2</sup>
3315-004 Site: Floor Near Entrance	251501212-0004	3/3/2015	3/4/2015	144 in <sup>2</sup>	930 µg/ft <sup>2</sup>
3315-005 Site: Microwave Turntable	251501212-0005	3/3/2015	3/4/2015	154 in <sup>2</sup>	<9.4 µg/ft <sup>2</sup>
3315-006 Site: Middle Table	251501212-0006	3/3/2015	3/4/2015	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
3315-007 Site: Microwave Table	251501212-0007	3/3/2015	3/4/2015	144 in <sup>2</sup>	12 µg/ft <sup>2</sup>
3315-008 Site: Floor Near refridgerator	251501212-0008	3/3/2015	3/4/2015	144 in <sup>2</sup>	250 µg/ft <sup>2</sup>
3315-009 Site: Floor Near entrance	251501212-0009	3/3/2015	3/4/2015	144 in <sup>2</sup>	170 µg/ft <sup>2</sup>
3315-010 Site: N/A	251501212-0010	3/3/2015	3/4/2015	n/a	<10 µg/wipe
3315-011 Site: N/A	251501212-0011	3/3/2015	3/4/2015	n/a	<10 µg/wipe

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/04/2015 14:30:57



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Lead (Pb) Chain of Custody

## EMSL Order ID (Lab Use Only)

1252

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE (800) 220-3675  
FAX (856) 786-5974

Company: <u>Jacobs FOSC Group</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: <u>Building 1100, Suite 2136</u>		<small>Third Party Billing requires written authorization from third party</small>	
City: <u>Waveland</u>	State/Province: <u>MS</u>	Zip/Postal Code: <u>39529</u>	Country: <u>USA</u>
Report To (Name): <u>(b)(4)</u>		Telephone #: <u>(b)(4)</u>	
Email Address: <u>(b)(4)</u>		Fax #: <u>228-688-6456</u>	Purchase Order: <u>(b)(4)</u>
Project Name/Number: <u>6544-2015</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <u>(b)(4)</u>	
U.S. State Samples Taken: <u>MS</u>		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour  
  6 Hour  
  24 Hour  
  48 Hour  
  72 Hour  
  96 Hour  
  1 Week  
  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <span style="float: right;">ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> <small>*if no box is checked, non-ASTM Wipe is assumed</small></span>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	10 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater <span style="float: right;">Unpreserved <input type="checkbox"/> Preserved with HNO<sub>3</sub> pH &lt; 2 <input type="checkbox"/></span>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water <span style="float: right;">Unpreserved <input type="checkbox"/> Preserved with HNO<sub>3</sub> pH &lt; 2 <input type="checkbox"/></span>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4)      Signature of Sampler: (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
001	Break Room floor near entrance	1.59 ft <sup>2</sup>	3/5/15 08:00
002	Break Room near refrigerator	↓	↓
003	on desk office 1 north		
004	floor entrance office 1 north		
005	on desk office 2 middle		
	office		

Client Sample #'s: 001 - 010      Total # of Samples: 10

Relinquished (Client): (b)(4)      Date: 3/5/15      Time: 12:55

Received (Lab): (b)(4)      Date: 3/05/15      Time: 1:20pm

Comments:

*Courier*





EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### LEAD (Pb) CHAIN OF CUSTODY EMSL ORDER ID (Lab Use Only):

1252

EMSL ANALYTICAL, INC  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE (800) 220-3675  
FAX (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
006	floor entrance office 2 middle office	1.59 ft	3/5/15 09:00
007	on desk office 3 south office	↓	↓
008	floor entrance office 3 south office	↓	↓
009	cable tray	↓	↓
010	Blank	N/A	N/A

Comments/Special Instructions:

4B Email results to (b)(4)

Controlled Document --- Lead (Pb) COC - R6-6 12/2012



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)

CustomerID: JCWS50

CustomerPO: (b)(4)

ProjectID:

Attn: (b)(4)

**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)

Fax: (228) 688-3368

Received: 03/05/15 1:20 PM

Collected: 3/5/2015

Project: 6544-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
001 Site: Break Room floor Near entrance	251501252-0001	3/5/2015	3/5/2015	144 in <sup>2</sup>	69 µg/ft <sup>2</sup>
002 Site: Break Room Near refridgerator	251501252-0002	3/5/2015	3/5/2015	144 in <sup>2</sup>	120 µg/ft <sup>2</sup>
003 Site: On desk office 1 N office	251501252-0003	3/5/2015	3/5/2015	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
004 Site: Floor entrance office 1 N office	251501252-0004	3/5/2015	3/5/2015	144 in <sup>2</sup>	25 µg/ft <sup>2</sup>
005 Site: On desk office 2 Middle office	251501252-0005	3/5/2015	3/5/2015	144 in <sup>2</sup>	25 µg/ft <sup>2</sup>
006 Site: Floor entrance office 2 middle office	251501252-0006	3/5/2015	3/5/2015	144 in <sup>2</sup>	120 µg/ft <sup>2</sup>
007 Site: On desk office 3 S office	251501252-0007	3/5/2015	3/5/2015	144 in <sup>2</sup>	10 µg/ft <sup>2</sup>
008 Site: Floor entrance office 3 S office	251501252-0008	3/5/2015	3/5/2015	144 in <sup>2</sup>	150 µg/ft <sup>2</sup>
009 Site: Cable tray	251501252-0009	3/5/2015	3/5/2015	144 in <sup>2</sup>	300 µg/ft <sup>2</sup>
010 Site: Blank	251501252-0010	3/5/2015	3/5/2015	n/a	<10 µg/wipe

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft<sup>2</sup> x area sampled in ft<sup>2</sup>. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/05/2015 16:30:06



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only).

1253

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Company: <u>Jacobs FOSC Group</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>Building 1100, Suite 2136</u>		Third Party Billing requires written authorization from third party	
City: <u>Waveland</u>	State/Province: <u>MS</u>	Zip/Postal Code: <u>39529</u>	Country: <u>USA</u>
Report To (Name): <u>(b)(4)</u>	Telephone #: <u>(b)(4)</u>		
Email Address: <u>(b)(4)</u>	Fax #: <u>228-688-6456</u>	Purchase Order: <u>(b)(4)</u>	
Project Name/Number: <u>B2-Surv-01</u>	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <u>Per</u>		
U.S. State Samples Taken: <u>MS</u>	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		

**Turnaround Time (TAT) Options\* - Please Check**

<input checked="" type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
--	---------------------------------	----------------------------------	----------------------------------	----------------------------------	----------------------------------	---------------------------------	---------------------------------

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input checked="" type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <span style="float: right;">ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed</span>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater <span style="float: right;">Unpreserved <input type="checkbox"/> Preserved with HNO<sub>3</sub> pH &lt; 2 <input type="checkbox"/></span>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200 7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water <span style="float: right;">Unpreserved <input type="checkbox"/> Preserved with HNO<sub>3</sub> pH &lt; 2 <input type="checkbox"/></span>	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200 8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: <u>(b)(4)</u>	Signature of Sample: <u>(b)(4)</u>
--------------------------------	------------------------------------

Sample #	Location	Volume/Area	Date/Time Sampled
3316-001	Landing between level 10-11 stairwell	1 sq ft	3/4/15
3415-002	Outside near dust collectors	↓	3/4/15
005	B2 level 13, Clean RM Floor	✓	3/5/15
006	Blank	N/A	3/5/15
001	West Pier stair grey on orange	N/A	3/5/15

Client Sample #'s: <u>-</u>	Total # of Samples: <u>12</u>
-----------------------------	-------------------------------

Relinquished (Client): <u>(b)(4)</u>	Date: <u>3/5/15</u>	Time: <u>10:45</u>
--------------------------------------	---------------------	--------------------

Received (Lab): <u>(b)(4)</u>	Date: <u>3/05/15</u>	Time: <u>1:20pm</u>
-------------------------------	----------------------	---------------------

Comments:

*Carrier*



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

**LEAD (Pb) CHAIN OF CUSTODY**  
EMSL ORDER ID (Lab Use Only):

1253

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE (800) 220-3675  
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

chip  
chip  
chip

Sample #	Location	Volume/Area	Date/Time Sampled
002	Gray LOC clamp Grey on yellow on orange	<del>871</del> DM	3/5/15 <del>3/5/15</del> DM
003	B2 level 11, Soft Core Int. Siding <sup>lt grey on dark</sup> grey spallles		3/5/15
007	B 9101 support column		3/4/15
Air-001	Southside of containment level 11 B2	863.1 L	3/4/15 411min
Air-002	B2 Interface between 10-11	802 L	3/4/15 397min
Air-003	B2 ground Northside near dust collector	786 L	3/4/15 393min
Air-Blank	Blank	N/A	N/A

Comments/Special Instructions:

Ⓢ Email results to (b)(4)



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)

**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)

Fax: (228) 688-3368

Received: 03/05/15 1:20 PM

Collected: 3/4/2015

Project: B2-Surv-01

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
Air-001	251501253-0009	3/4/2015	3/5/2015	863.1 L	<4.6 µg/m <sup>3</sup>
Site: S side of containment level II B2					
Air-002	251501253-0010	3/4/2015	3/5/2015	802 L	<5.0 µg/m <sup>3</sup>
Site: B2 Interface between 10-11					
Air-003	251501253-0011	3/4/2015	3/5/2015	786 L	<5.1 µg/m <sup>3</sup>
Site: B2 ground N side near dust collectors					
Air-Blank	251501253-0012	3/4/2015	3/5/2015	n/a	<4.0 µg/filter
Site: Blank					

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m<sup>3</sup> x volume sampled (m<sup>3</sup>). OSHA PEL - 50 µg/m<sup>3</sup>. OSHA action level - 30 µg/m<sup>3</sup>. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/05/2015 16:55:03



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)

**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)

Fax: (228) 688-3368

Received: 03/05/15 1:20 PM

Collected: 3/4/2015

Project: B2-Surv-01

## Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
001	251501253-0005	3/4/2015	3/5/2015	21 % wt
Site: On W Pier stair				
002	251501253-0006	3/4/2015	3/5/2015	7.0 % wt
Site: Gray LOC clamp				
003	251501253-0007	3/4/2015	3/5/2015	0.17 % wt
Site: B2 level II, Soft Cove Int.				
007 **	251501253-0008	3/4/2015	3/5/2015	0.14 % wt
Site: B9101 support column				
** Data reported may not reach applicable analytical sensitivity due to insufficient sample weight submitted.				
Suggested weight for analysis is 0.2g.				

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO: (b)(4)  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group**  
**Building 1100**  
**Stennis Space Center**  
**Waveland, MS 39529**

Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 03/05/15 1:20 PM  
Collected: 3/4/2015

Project: B2-Surv-01

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
3316-001 Site: Landing between level 10-11 stairwell	251501253-0001	3/4/2015	3/5/2015	144 in <sup>2</sup>	1500 µg/ft <sup>2</sup>
3415-002 Site: Outside near dust collectors	251501253-0002	3/4/2015	3/5/2015	144 in <sup>2</sup>	240 µg/ft <sup>2</sup>
005 Site: B2 level 13, clean RM Floor	251501253-0003	3/4/2015	3/5/2015	144 in <sup>2</sup>	210 µg/ft <sup>2</sup>
006 Site: Blank	251501253-0004	3/4/2015	3/5/2015	n/a	<10 µg/wipe

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/05/2015 16:55:03



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

# Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

1501

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Company : Jacobs FOSC Group		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>		
Street: Building 1100, Suite 213G		<i>Third Party Billing requires written authorization from third party</i>		
City: Waveland	State/Province: MS	Zip/Postal Code: 39529	Country: USA	
Report To (Name): (b)(4)	Telephone #: (b)(4)			
Email Address: (b)(4)	Fax #: 228-688-6456	Purchase Order: (b)(4)		
Project Name/Number: 6548-2015 BZ Surv		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: MS @ 12:00 pm		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		
Turnaround Time (TAT) Options* - Please Check				
<input type="checkbox"/> 3 Hour	<input checked="" type="checkbox"/> 6 Hour	<input checked="" type="checkbox"/> 24 Hour	<input checked="" type="checkbox"/> 48 Hour	
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week	
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input checked="" type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM non ASTM <input checked="" type="checkbox"/> <small>*if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>
Name of Sampler: (b)(4)		Signature of Sampler: (b)(4)		
Sample #	Location	Volume/Area	Date/Time Sampled	
Air-001	BZ Inter face level 10 + 11	964.8 L	10/12/15 4:00 pm	
Air-Blank	N/A	N/A	10/12/15	
<del>W-6623-2015-020</del> <i>Blank Room</i> * SEE NEXT PAGE				
Client Sample #'s		Total # of Samples: 9		
Relinquished (Client)	(b)(4)	Date: 3/15/15	Time: 10:00	
Received (Lab):	(b)(4)	Date: 3/17/15	Time: 9:50 am	
Comments: Please email results to (b)(4)				

*Reg. Index*





EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

**LEAD (Pb) CHAIN OF CUSTODY**  
**EMSL ORDER ID** (Lab Use Only).

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
Wipe-001-3-13-15	Mezzanine Break Room Table	1 ft <sup>2</sup>	3/13/15 840
Wipe-002-3-13-15	Mezzanine Break Room Microwave Table	"	" 843
Wipe-003-3-13-15	Mezzanine Entrance Break Room Floor	"	" 845
Wipe-004-3-13-15	Mezzanine SE Break Room Floor	"	" 850
Wipe-005-3-13-15	Lv 10 Stairwell Landing	"	" 9:10
Wipe-006-3-13-15	Lv 13 Cleanroom Floor	"	" 945
Wipe-007-3-13-15	Blank	-	3/13/15
<b>Comments/Special Instructions:</b>			



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)

**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)

Fax: (228) 688-3368

Received: 03/17/15 9:50 AM

Collected: 10/12/2015

Project: 6548-2015 B2 SUPV

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
Air-001	251501501-0001	10/12/2015	3/17/2015	964.8 L	<4.1 µg/m <sup>3</sup>
	Site: B2 Interface level 10 & 11				
Air-Blank	251501501-0002	10/12/2015	3/17/2015	n/a	<4.0 µg/filter
	Site: N/A				

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m<sup>3</sup> x volume sampled (m<sup>3</sup>). OSHA PEL - 50 µg/m<sup>3</sup>. OSHA action level - 30 µg/m<sup>3</sup>. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/17/2015 16:23:53



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)

**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 03/17/15 9:50 AM  
Collected: 3/13/2015

Project: 6548-2015 B2 SUPV

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
Wipe-001-3-13-15 Site: Mezzanine Break Rm Table	251501501-0003	3/13/2015	3/17/2015	144 in <sup>2</sup>	10 µg/ft <sup>2</sup>
Wipe-002-3-13-15 Site: Mezzanine Break Rm Microwave Table	251501501-0004	3/13/2015	3/17/2015	144 in <sup>2</sup>	35 µg/ft <sup>2</sup>
Wipe-003-3-13-15 Site: Mezzanine Entrance Break Rm Floor	251501501-0005	3/13/2015	3/17/2015	144 in <sup>2</sup>	420 µg/ft <sup>2</sup>
Wipe-004-3-13-15 Site: Mezzanine SE Break Rm Floor	251501501-0006	3/13/2015	3/17/2015	144 in <sup>2</sup>	240 µg/ft <sup>2</sup>
Wipe-005-3-13-15 Site: Lv 10 Stairwell Landing	251501501-0007	3/13/2015	3/17/2015	144 in <sup>2</sup>	1900 µg/ft <sup>2</sup>
Wipe-006-3-13-15 Site: Lv 13 Clean Room Floor	251501501-0008	3/13/2015	3/17/2015	144 in <sup>2</sup>	140 µg/ft <sup>2</sup>
Wipe-007-3-13-15 Site: Blank	251501501-0009	3/13/2015	3/17/2015	n/a	<10 µg/wipe

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/17/2015 16:23:53

11931 Industriplex Blvd.  
Baton Rouge LA 70809



**Lead (Pb) Chain of Custody**  
EMSL Order ID (Lab Use Only):

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
GINNMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

1649

Company: <b>TES</b>		EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different if Bill to is Different note instructions in Comments**		
Street: <b>5133 Taravella Rd.</b>		Third Party Billing requires written authorization from third party		
City:	State/Province:	Zip/Postal Code:	Country:	
Report To (Name):	Telephone #:		Country:	
Email Address:	Fax #:		Purchase Order #:	
Project Name/Number: <b>ENV-1150 15068</b>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken:		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		
Turnaround Time (TAT) Options* - Please Check				
<input type="checkbox"/> 3 Hour <input checked="" type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week				
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input checked="" type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input checked="" type="checkbox"/> ASTM non ASTM <input type="checkbox"/> *If no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other: <input type="checkbox"/>				
Name of Sampler:		Signature of Sampler:		
Sample #	Location	Volume/Area	Date/Time Sampled	
See Next Page				
Client Sample #'s		Total # of Samples:		
Relinquished (Client)	(b)(4)	Date: <b>3/20/15</b>	Time: <b>1:30 pm</b>	
Received (Lab):		Date: <b>3/23/15</b>	Time: <b>8:20 am</b>	
Comments:				

Reg. Index



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

**LEAD (Pb) CHAIN OF CUSTODY**

EMSL ORDER ID (Lab Use Only):

1649

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
B <sub>s</sub> Air1	Stairwell Between <sup>Floor</sup> 10 & 11	872 L	3/19/15
B <sub>s</sub> Air2	10 <sup>th</sup> Floor Outside	900 L	3/19/15
B <sub>s</sub> Air3	Exhaust	912 L	3/19/15
B <sub>swipe</sub> 1	Stairwell Between Floors 10 & 11	144 in <sup>2</sup>	3/19/15
B <sub>swipe</sub> 2	Bottom of 10 <sup>th</sup> Floor Stairs	144 in <sup>2</sup>	3/19/15
B <sub>swipe</sub> 3	Clean Room Floor	144 in <sup>2</sup>	3/19/15
B <sub>swipe</sub> 4	Exhaust	144 in <sup>2</sup>	
Comments/Special Instructions:			

Controlled Document -- Lead (Pb) COC -- RS - 6/12/2012



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	TECH55
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)

**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 03/23/15 8:20 AM  
Collected: 3/19/2015

Project: ENV-1150 15068

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
BsAir1	251501649-0001	3/19/2015	3/23/2015	872 L	<4.6 µg/m <sup>3</sup>
	Site: Stairwell Between Flr 10 & 11				
BsAir2	251501649-0002	3/19/2015	3/23/2015	900 L	<4.4 µg/m <sup>3</sup>
	Site: 10th Flr Outside				
BsAir3	251501649-0003	3/19/2015	3/23/2015	912 L	<4.4 µg/m <sup>3</sup>
	Site: Exhaust				

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m<sup>3</sup> x volume sampled (m<sup>3</sup>). OSHA PEL - 50 µg/m<sup>3</sup>. OSHA action level - 30 µg/m<sup>3</sup>. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/23/2015 14:46:23



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO: (b)(4)  
ProjectID:

Attn: (b)(4)  
**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 03/23/15 8:20 AM  
Collected: 3/19/2015

Project: ENV-1150 15068

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
Pbwipe-1 Site: Stairwell Between Flrs 10 & 11	251501649-0004	3/19/2015	3/23/2015	144 in <sup>2</sup>	190 µg/ft <sup>2</sup>
Pbwipe-2 Site: Bottom of 10th Flr Stairs	251501649-0005	3/19/2015	3/23/2015	144 in <sup>2</sup>	110 µg/ft <sup>2</sup>
Pbwipe-3 Site: Clean Rm Floor	251501649-0006	3/19/2015	3/23/2015	144 in <sup>2</sup>	300 µg/ft <sup>2</sup>
Pbwipe-4 Site: Exhaust	251501649-0007	3/19/2015	3/23/2015	144 in <sup>2</sup>	170 µg/ft <sup>2</sup>

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/23/2015 14:46:23

11931 Industriplex Blvd.  
 Baton Rouge LA 70809  
 EMSL ANALYTICAL, INC.  
 200 ROUTE 130 NORTH  
 CINCINNATI, NJ 08077  
 PHONE: (800) 220-3675  
 FAX: (856) 786-5974



### Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

1773

EMSL ANALYTICAL, INC.  
 LABORATORY PRODUCTS TRAINING

Company: **TES** EMSL-Bill to:  Same  Different  
 If Bill to is Different note Instructions in Comments\*\*  
 Street: **5133 Taravello Rd.** Third Party Billing requires written authorization from third party  
 City: \_\_\_\_\_ State/Province: \_\_\_\_\_ Zip/Postal Code: \_\_\_\_\_ Country: \_\_\_\_\_  
 Report To (Name): \_\_\_\_\_ Telephone #: \_\_\_\_\_  
 Email Address: \_\_\_\_\_ Fax #: \_\_\_\_\_ Purchase Order #: **(b)(4)**  
 Project Name/Number: **1150 15068** Please Provide Results:  Fax  Email  
 U.S. State Samples Taken: \_\_\_\_\_ CT Samples:  Commercial/Taxable  Residential/Tax Exempt

Turnaround Time (TAT) Options\* - Please Check  
 3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week  
 \*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input checked="" type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input checked="" type="checkbox"/> ASTM <input type="checkbox"/> non-ASTM <small>*If no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: \_\_\_\_\_ Signature of Sampler: \_\_\_\_\_

Sample #	Location	Volume/Area	Date/Time Sampled
B <sub>2</sub> -1	Exhaust	144 in <sup>2</sup>	3/24 4:26 PM
B <sub>2</sub> -2	Stairs Between A+H	144 in <sup>2</sup>	3/24 4:46 PM
B <sub>2</sub> -3	Clean Room	144 in <sup>2</sup>	3/24 5:31 PM
A <sub>1</sub> -1	Clean Room	144 in <sup>2</sup>	3/24 2:29 PM
A <sub>1</sub> -2	Rep Floor	144 in <sup>2</sup>	3/24 2:38 PM

Client Sample #'s: \_\_\_\_\_ Total # of Samples: **12**

Relinquished (Client): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received (Lab): \_\_\_\_\_ Date: **3/26/15** Time: **9:40 AM**

Comments: \_\_\_\_\_

6 Wipes  
 6 Cassettes

Reg. 1234





EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only):

1773

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled	
<i>w</i> A <sub>1</sub> -3	EXhaust	149 in <sup>2</sup>	2:50 3/24	
<i>Cassettes</i>	B <sub>2</sub> Air-1	Air Exhaust B <sub>2</sub>	1018.8 L	4:19 pm
	B <sub>2</sub> Air-2	Interface bet. level 10 & 11	971.1 L	4:37 pm
	B <sub>2</sub> Air-3	Outside South of Containment	1081 L	5:10 pm
	A <sub>1</sub> Air-1	East Containment	1096 L	6:25 pm
	A <sub>1</sub> Air-2	West Containment	1090 L	6:25 pm
	A <sub>1</sub> Air-3	Near Dust Collector	1048.8 L	6:37 pm
Comments/Special Instructions:				

Page 2 of 2 pages



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)

CustomerID: TECH55

CustomerPO: (b)(4)

ProjectID:

Attn: (b)(4)

**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 03/26/15 9:40 AM  
Collected: 3/24/2015

Project: 1150 15068

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
B2Air-1 Site: Air Exhaust B2	251501773-0007	3/24/2015	3/26/2015	1018.8 L	<3.9 µg/m <sup>3</sup>
B2Air-2 Site: Interface Bet. Level 10 & 11	251501773-0008	3/24/2015	3/26/2015	971.1 L	<4.1 µg/m <sup>3</sup>
B2Air3 Site: Outside South of Cont.	251501773-0009	3/24/2015	3/26/2015	1081 L	<3.7 µg/m <sup>3</sup>
A1Air1 Site: East Containment	251501773-0010	3/24/2015	3/26/2015	1096 L	<3.6 µg/m <sup>3</sup>
A1Air2 Site: West Containment	251501773-0011	3/24/2015	3/26/2015	1090 L	<3.7 µg/m <sup>3</sup>
A1Air3 Site: Near Dust Collector	251501773-0012	3/24/2015	3/26/2015	1048.8 L	<3.8 µg/m <sup>3</sup>

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m<sup>3</sup> x volume sampled (m<sup>3</sup>). OSHA PEL - 50 µg/m<sup>3</sup>. OSHA action level - 30 µg/m<sup>3</sup>. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/26/2015 16:21:31



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)

CustomerID: TECH55

CustomerPO: (b)(4)

ProjectID:

Attn: (b)(4)

**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 03/26/15 9:40 AM  
Collected: 3/24/2015

Project: 1150 15068

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
B2-1 Site: Exhaust	251501773-0001	3/24/2015	3/26/2015	144 in <sup>2</sup>	290 µg/ft <sup>2</sup>
B2-2 Site: Stairs Between 10 & 11	251501773-0002	3/24/2015	3/26/2015	144 in <sup>2</sup>	79 µg/ft <sup>2</sup>
B2-3 Site: Clean Room	251501773-0003	3/24/2015	3/26/2015	144 in <sup>2</sup>	56 µg/ft <sup>2</sup>
A1-1 Site: Clean Room	251501773-0004	3/24/2015	3/26/2015	144 in <sup>2</sup>	100 µg/ft <sup>2</sup>
A1-2 Site: Rep Floor	251501773-0005	3/24/2015	3/26/2015	144 in <sup>2</sup>	4200 µg/ft <sup>2</sup>
A1-3 Site: Exhaust	251501773-0006	3/24/2015	3/26/2015	144 in <sup>2</sup>	29 µg/ft <sup>2</sup>

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/26/2015 16:21:31



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2002

11931 Industriplex Blvd  
Baton Rouge, LA 70809 Ste 102  
EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

A Same day (3 or 6 hr)

Company: <u>TES, Inc.</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>5133 Taravella Rd.</u>		Third Party Billing requires written authorization from third party	
City: <u>Marrero</u>	State/Province: <u>LA</u>	Zip/Postal Code: <u>70072</u>	Country: <u>US</u>
Report To (Name): <u>(b)(4)</u>	Telephone #: <u>504-348-3098</u>		
Email Address: <u>(b)(4)</u>	Fax #:	Purchase Order:	
Project Name/Number: <u>IH 1150-15068</u>	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: <u>MS</u>	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		

Turnaround Time (TAT) Options\* - Please Check

3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input checked="" type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4) Signature of Sampler: (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
040215-Air-1	B-Stand Interior-11 landing Interior	781.65 L	04/02/15 9:00
" - " - 2	B-Stand Exterior-12 Landing	779.625 L	"
" - " - 3	B-Stand Exterior-N side by exhaust	760.0 L	"
" - " - 4	A1-Stand Exterior-2-NE side-N exhaust	748.0 L	"
" - " - 5	A1-Stand Exterior-5- stairs case	742.0 L	"

Client Sample #'s: (b)(4) Total # of Samples: 5

Relinquished (Client): (b)(4) Date: 04/02/15 Time: 17:00

Received (Lab): (b)(4) Date: 4/3/15 Time: 10:00am

Comments:

Req. FedEx

11931 Industriplex Blvd  
 Baton Rouge, LA 70809 Ste 100  
 EMSL ANALYTICAL, INC.  
 200 ROUTE 130 NORTH  
 CINNAMINSON, NJ 08077  
 PHONE: (800) 220-3675  
 FAX: (856) 786-5974

Same day turnaround (3-6 hrs)



EMSL ANALYTICAL, INC.  
 LABORATORY PRODUCTS TRAINING

## Lead (Pb) Chain of Custody

### EMSL Order ID (Lab Use Only):

2002

Company: <u>TES, Inc.</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: <u>5133 Taravella Rd.</u>		<i>Third Party Billing requires written authorization from third party</i>	
City: <u>Marrero</u>	State/Province: <u>LA</u>	Zip/Postal Code: <u>70072</u>	Country: <u>U.S.</u>
Report To (Name): <span style="background-color: black; color: red;">(b)(4)</span>	Telephone #: <u>504-348-3058</u>		
Email Address:	Fax #:	Purchase Order:	
Project Name/Number: <u>DH 1150-15068</u>	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: <u>MS</u>	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour   
  6 Hour   
  24 Hour   
  48 Hour   
  72 Hour   
  96 Hour   
  1 Week   
  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air <input checked="" type="checkbox"/>	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input checked="" type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM non ASTM <input checked="" type="checkbox"/> <small>*if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4)      Signature of Sampler: (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
040215-AIR-6	Al-stand Exterior - W side - S - scrubment	722.0 L	04/02/15
040215-Bulk-1	Al-stand Exterior - S - base of stairs		"
040215-Wipe-1	Al-stand Ext - S - clean up floor	(12" x 12") 144 in <sup>2</sup>	"
" - " - 2	" " - S - base of stairs <sup>contaminant</sup>	" "	"
" - " - 3	" " - 4 - beam on platform <sup>side</sup>	(10" x 14.5") 145 in <sup>2</sup>	"

Client Sample #s: (b)(4)      Total # of Samples: 5

Relinquished (Client): <span style="background-color: black; color: red;">(b)(4)</span>	Date: <u>04/02/15</u>	Time: <u>1200</u>
Received (Lab): <span style="background-color: black; color: red;">(b)(4)</span>	Date: <u>4/3/15</u>	Time: <u>10:00am</u>

Comments:

Req. FedEx

11931 Industripark Blvd  
 Baton Rouge, LA 70809 Ste 100  
 EMSL ANALYTICAL, INC.  
 200 ROUTE 130 NORTH  
 CINNAMINSON, NJ 08077  
 PHONE: (800) 220-3675  
 FAX: (856) 786-5974

**Lead (Pb) Chain of Custody**  
**EMSL Order ID (Lab Use Only):**

2002



EMSL ANALYTICAL, INC.  
 LABORATORY PRODUCTS TRAINING

3 or 6 (r)  
 Send delay to record

Company: <b>TES, Inc.</b>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**		
Street: <b>5133 Taravella Rd.</b>		Third Party Billing requires written authorization from third party		
City: <b>Marrero</b>	State/Province: <b>LA</b>	Zip/Postal Code: <b>70072</b>	Country: <b>U.S.</b>	
Report To (Name): <b>(b)(4)</b>	Telephone #: <b>504-348-3058</b>			
Email Address: <b>(b)(4)</b>	Fax #:	Purchase Order:		
Project Name/Number: <b>DH 1150-15068</b>	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email			
U.S. State Samples Taken: <b>15</b>	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt			
<b>Turnaround Time (TAT) Options* - Please Check</b>				
<input checked="" type="checkbox"/> 3 Hour	<input checked="" type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week	
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <small>ASTM <input type="checkbox"/>                  non ASTM <input type="checkbox"/>                  *if no box is checked, non-ASTM                  Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater <small>Unpreserved <input type="checkbox"/>                  Preserved with HNO<sub>3</sub> pH &lt; 2 <input type="checkbox"/></small>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water <small>Unpreserved <input type="checkbox"/>                  Preserved with HNO<sub>3</sub> pH &lt; 2 <input type="checkbox"/></small>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>
Name of Sampler: <b>(b)(4)</b>	Signature of Sampler: <b>(b)(4)</b>			
Sample #	Location	Volume/Area	Date/Time Sampled	
040215-Wipe 4	A1 - Ground Floor - Est - NE side - Next to	(12'x12')	04/02/15	
" " - 5	B - Stand on 1st floor - Est - NE side - concrete	" "	" "	
" " - 6	B - Stand Interior - 1st - Clean Room	" "	" "	
" " - 7	B - Stand Interior - 1st - Mid Landing	" "	" "	
" " - 8	A1 - Stand - 5 - Exterior - Clean Room	next to handrail (6'x24')	" "	
Client Sample #'s	Total # of Samples:		5	
Relinquished (Client): <b>(b)(4)</b>	Date: <b>04/02/15</b>	Time: <b>17:00</b>		
Received (Lab):	Date: <b>4/3/15</b>	Time: <b>10:00am</b>		
Comments:				

Rec. Fed Ex



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO:  
ProjectID:

Attn: (b)(4)

**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 04/03/15 10:00 AM  
Collected:

Project: IH 1150-15068

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
040215-Air-1 Site: B-Stand Int-11Landing	251502002-0001	4/3/2015	4/3/2015	781.65 L	<5.1 µg/m <sup>3</sup>
040215-Air-2 Site: B-Stand Ext-12Landing	251502002-0002	4/3/2015	4/3/2015	779.625 L	<5.1 µg/m <sup>3</sup>
040215-Air-3 Site: B-Stand Ext- Exhaust	251502002-0003	4/3/2015	4/3/2015	760 L	<5.3 µg/m <sup>3</sup>
040215-Air-4 Site: A1-Stand Ext-1NE Side Exhaust	251502002-0004	4/3/2015	4/3/2015	748 L	<5.3 µg/m <sup>3</sup>
040215-Air-5 Site: A1-Stand Ext-S Staircase	251502002-0005	4/3/2015	4/3/2015	742 L	<5.4 µg/m <sup>3</sup>
040215-Air-6 Site: A1-Stand Ext-W side-5-S containment	251502002-0006	4/3/2015	4/3/2015	722 L	<5.5 µg/m <sup>3</sup>

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m<sup>3</sup> x volume sampled (m3). OSHA PEL - 50 µg/m<sup>3</sup>. OSHA action level - 30 µg/m<sup>3</sup>. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/03/2015 15:01:05



**EMSL Analytical, Inc.**

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO:  
ProjectID:

Attn: (b)(4)  
**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 04/03/15 10:00 AM  
Collected:

Project: IH 1150-15068

**Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)\***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
040215-Bulk-1	251502002-0007		4/3/2015	0.046 % wt
Site: A1-Stand Ext5-base of stairs				

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/03/2015 15:01:05





# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	TECH55
CustomerPO:	
ProjectID:	

Attn: (b)(4)

**Technical Environmental Service, Inc.  
PO Box 1601  
Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 04/03/15 10:00 AM  
Collected:

Project: IH 1150-15068

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
040215-Wipe-1 Site: A1-Stand Ext-5-CleanRm Floor	251502002-0008	4/3/2015	4/3/2015	144 in <sup>2</sup>	310 µg/ft <sup>2</sup>
040215-Wipe-2 Site: A1-Stand Ext-5-base stairs	251502002-0009	4/3/2015	4/3/2015	144 in <sup>2</sup>	560 µg/ft <sup>2</sup>
040215-Wipe-3 Site: A1-Stand Ext-4-Ibeam Eside	251502002-0010	4/3/2015	4/3/2015	145 in <sup>2</sup>	380 µg/ft <sup>2</sup>
040215-Wipe-4 Site: 4/A1-Ground Floor Ext-NE	251502002-0011	4/3/2015	4/3/2015	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
040215-Wipe-5 Site: B-Stand Ground Floor Ext-N exhaust	251502002-0012	4/3/2015	4/3/2015	144 in <sup>2</sup>	360 µg/ft <sup>2</sup>
040215-Wipe-6 Site: B-Stand Int-13-CleanRm	251502002-0013	4/3/2015	4/3/2015	144 in <sup>2</sup>	14 µg/ft <sup>2</sup>
040215-Wipe-7 Site: B-Stand Int-11-Mid Land	251502002-0014	4/3/2015	4/3/2015	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
040215-Wipe-8 Site: A1-Stand-5-Ext Ibeam	251502002-0015	4/3/2015	4/3/2015	144 in <sup>2</sup>	170 µg/ft <sup>2</sup>

(b)(4)  
 (b)(4) Laboratory Manager  
 or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/03/2015 15:01:05

11931 Industriplex Blvd.  
 Baton Rouge LA 70809  
 EMSL ANALYTICAL, INC.  
 200 ROUTE 130 NORTH  
 GINNAMINSON, NJ 08077  
 PHONE: (800) 220-3675  
 FAX: (856) 786-5974



**Lead (Pb) Chain of Custody**  
**EMSL Order ID (Lab Use Only):**

2106

EMSL ANALYTICAL, INC.  
 LABORATORY PRODUCTS TRAINING

Company: <b>TES</b>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: <b>5133 Taravella Rd.</b>		<i>Third Party Billing requires written authorization from third party</i>	
City: <b>Marrero</b>	State/Province: <b>LA</b>	Zip/Postal Code: <b>70072</b>	Country: <b>U.S.</b>
Report To (Name): <span style="background-color: black; color: red;">(b)(4)</span>	Telephone #: <b>504-348-3098</b>		<span style="background-color: black; color: red;">(b)(4)</span>
Email Address: <span style="background-color: black; color: red;">(b)(4)</span>	Fax #:	Purchase Order:	
Project Name/Number: <b>IH 1150-15068</b>	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: <b>MS</b>	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour   
  6 Hour   
  24 Hour   
  48 Hour   
  72 Hour   
  96 Hour   
  1 Week   
  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air ✓	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input checked="" type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input checked="" type="checkbox"/> ASTM non ASTM <input type="checkbox"/> <small>*if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4)      Signature of Sampler: (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
040715-Air-①	B-exhaust of dust collector	888 L	04/07/15
" - Air-②	B-interface 10/11	837.4 L	
" - Air-③	B- outside S containment	828 L	
" - Air-④	A1 - near dust collector	838 L	
" - Air-⑤	A1 - outside E containment	834 L	

Client Sample #'s	(b)(4)		Total # of Samples:	13
Relinquished (Client):	(b)(4)		Date:	04/07/15
Received (Lab):	(b)(4)		Date:	4/08/15
Comments:			Time:	17:00
			Time:	9:45 am

7 Airs  
 6 Wipes

*Reg. July*



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

**LEAD (Pb) CHAIN OF CUSTODY**  
EMSL ORDER ID (Lab Use Only):

2106

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
040715-AIR-⑥	A1-outside w/ container	838.35L	04/07/15
040715-AIR-BLANK		—	
040715-WIPE-①	A1-outside dust collector	144 in <sup>2</sup>	
" -WIPE-②	A1-representative floor Gels stairs	144 in <sup>2</sup>	
" -WIPE-③	A1-clean room	144 in <sup>2</sup>	
" -WIPE-④	B-interface 10/11	144 in <sup>2</sup>	
" -WIPE-⑤	B-outside near dust collector	144 in <sup>2</sup>	
" -WIPE-BLANK			

Comments/Special Instructions:

Controlled Document — Lead (Pb) COC — R6 — 6/12/2012



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	TECH55
CustomerPO:	
ProjectID:	

Attn: (b)(4)

**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 04/08/15 9:45 AM  
Collected: 4/7/2015

Project: IH 1150-15068

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
040715-AIR-1 Site: B-exhaust of dust collector	251502106-0001	4/7/2015	4/8/2015	888 L	<4.5 µg/m <sup>3</sup>
040715-AIR-2 Site: B-interface 10/11	251502106-0002	4/7/2015	4/8/2015	837.4 L	<4.8 µg/m <sup>3</sup>
040715-AIR-3 Site: B-outside S containment	251502106-0003	4/7/2015	4/8/2015	878 L	<4.6 µg/m <sup>3</sup>
040715-AIR-4 Site: A1-near dust collector	251502106-0004	4/7/2015	4/8/2015	838 L	<4.8 µg/m <sup>3</sup>
040715-AIR-5 Site: A1-outside E containment	251502106-0005	4/7/2015	4/8/2015	834 L	<4.8 µg/m <sup>3</sup>
040715-AIRr-6 Site: A1-outside W containment	251502106-0006	4/7/2015	4/8/2015	838.35 L	<4.8 µg/m <sup>3</sup>
040715-Air-BLANK Site: Blank	251502106-0007	4/7/2015	4/8/2015	n/a	<4.0 µg/filter

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m<sup>3</sup> x volume sampled (m<sup>3</sup>). OSHA PEL - 50 µg/m<sup>3</sup>. OSHA action level - 30 µg/m<sup>3</sup>. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/09/2015 08:14:50



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO:  
ProjectID:

Attn: (b)(4)  
**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 04/08/15 9:45 AM  
Collected: 4/7/2015

Project: IH 1150-15068

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
040715-WIPE-1 Site: A1-outside dust collector	251502106-0008	4/7/2015	4/8/2015	144 in <sup>2</sup>	20 µg/ft <sup>2</sup>
040715-WIPE-2 Site: A1-representative floor below stairs	251502106-0009	4/7/2015	4/8/2015	144 in <sup>2</sup>	470 µg/ft <sup>2</sup>
040715-WIPE-3 Site: A1-clean room	251502106-0010	4/7/2015	4/8/2015	144 in <sup>2</sup>	1300 µg/ft <sup>2</sup>
040715-WIPE-4 Site: B-interface 10/11	251502106-0011	4/7/2015	4/8/2015	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
040715-WIPE-5 Site: B-outside outside near dust collector	251502106-0012	4/7/2015	4/8/2015	144 in <sup>2</sup>	300 µg/ft <sup>2</sup>
040715-WIPE-BLANK Site: Blank	251502106-0013	4/7/2015	4/8/2015	n/a	<10 µg/wipe

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/09/2015 08:14:50



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING  
LABORATORY PRODUCTS TRAINING

### Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201507917

Baton Rouge, LA 70809

PHONE: (225) 755-1920

FAX: (225) 755-1989

Company: Jacobs (Stennis Space Center)		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: Building 1100 Suite 213G		<i>Third Party Billing requires written authorization from third party</i>	
City: Stennis Space Center	State/Province: MS	Zip/Postal Code: 39529	Country: United States
Report To (Name): (b)(4)		Telephone #: (b)(4)	
Email Address: (b)(4)		Fax #: 228-688-3368	Purchase Order: (b)(4)
Project Name/Number: 6548-2015		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: MS		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
<b>Turnaround Time (TAT) Options* - Please Check</b>			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input checked="" type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>			
<b>Matrix</b>	<b>Method</b>	<b>Instrument</b>	<b>Reporting Limit</b>
Chlips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter
Wipe* <small>ASTM non ASTM <input checked="" type="checkbox"/> *If no box is checked, non ASTM Wipe is assumed</small>	SW846 7000B	Flame Atomic Absorption	10 µg/wipe
	SW846-6010B or C	ICP-AES	1.0 µg/wipe
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter
Other:			
Name of Sampler: (b)(4)		Signature of Sampler	
Sample #	Location	Volume/Area	Date/Time Sampled
Air-001	18th floor softcore at blast level	903 Liters	7/2/2015
Air-002	Blank	N/A	7/2/2015
Wipe-001	Outside clean room, level 13	1 square foot	7/2/2015
Wipe-002	Equipment room floor, level 13	1 square foot	7/2/2015
Wipe-003	Blank	N/A	7/2/2015
Client Sample #'s	A1001 - Wipe-002	Total # of Samples	5
Relinquished (Client):	(b)(4)	7/6/15	Time: 1:00pm
Received (Lab):	(b)(4)	7/2/15	Time: 1:05 PM
Comments			
<small>Bill to Debbie Holler, deborah.a.holler@nasa.gov, Building 1100, Room 1017C, Stennis Space Center, MS 39529, 228-688-2141</small>			



# EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

[cinnaminsonleadlab@emsl.com](mailto:cinnaminsonleadlab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)  
**Jacobs FOSC Group**  
**Building 1100**  
**Stennis Space Center**  
**Waveland, MS 39529**

Phone: (b)(4)  
 Fax: (228) 688-3368  
 Received: 07/07/15 10:05 AM  
 Collected: 7/2/2015

Project: 6548-2015

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
Air-001	201507917-0001	7/2/2015	7/8/2015	903 L	<4.4 µg/m <sup>3</sup>
	Site: 18th Floor Softcore at Blast Level				
Air-002	201507917-0002	7/2/2015	7/8/2015	n/a	<4.0 µg/filter
	Site: Blank				

(b)(4)  
 (b)(4) Laboratory Director  
 NJ-NELAP Accredited:03036  
 or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m<sup>3</sup>. OSHA action level - 30 µg/m<sup>3</sup>. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.  
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 07/08/2015 10:32:39



# EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

[cinnaminsonleadlab@emsl.com](mailto:cinnaminsonleadlab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)

**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)

Fax: (228) 688-3368

Received: 07/07/15 10:05 AM

Collected: 7/2/2015

Project: 6548-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
Wipe-001	201507917-0003	7/2/2015	7/7/2015	144 in <sup>2</sup>	23 µg/ft <sup>2</sup>
Site: Outside Clean Room, Level 13					
Wipe-002	201507917-0004	7/2/2015	7/7/2015	144 in <sup>2</sup>	28 µg/ft <sup>2</sup>
Site: Equipment Room Floor, Level 13					
Wipe-003	201507917-0005	7/2/2015	7/7/2015	n/a	<10 µg/wipe
Site: Blank					

(b)(4)

(b)(4) Laboratory Director  
NJ-NELAP Accredited:03036  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 07/08/2015 10:32:39





EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only).

1253

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Company: <u>Jacobs FOSC Group</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>Building 1100, Suite 2136</u>		Third Party Billing requires written authorization from third party	
City: <u>Waveland</u>	State/Province: <u>MS</u>	Zip/Postal Code: <u>39529</u>	Country: <u>USA</u>
Report To (Name): <span style="background-color: black; color: red;">(b)(4)</span>	Telephone #: <span style="background-color: black; color: red;">(b)(4)</span>		Purchase Order: <span style="background-color: black; color: red;">(b)(4)</span>
Email Address: <span style="background-color: black; color: red;">(b)(4)</span>	Fax #: <u>228-688-6456</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <u>Per</u>
Project Name/Number: <u>B2-Surv-01</u>	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		
U.S. State Samples Taken: <u>MS</u>			

**Turnaround Time (TAT) Options\* - Please Check**

<input checked="" type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
--	---------------------------------	----------------------------------	----------------------------------	----------------------------------	----------------------------------	---------------------------------	---------------------------------

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input checked="" type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <span style="float: right;">ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed</span>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater <span style="float: right;">Unpreserved <input type="checkbox"/> Preserved with HNO<sub>3</sub> pH &lt; 2 <input type="checkbox"/></span>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200 7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water <span style="float: right;">Unpreserved <input type="checkbox"/> Preserved with HNO<sub>3</sub> pH &lt; 2 <input type="checkbox"/></span>	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200 8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4)      Signature of Sampler: (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
3316-001	Landing between level 10-11 stairwell	1 sq ft	3/4/15
3415-002	Outside near dust collectors	↓	3/4/15
005	B2 level 13, Clean RM Floor	✓	3/5/15
006	Blank	N/A	3/5/15
001	West Pier stair grey on orange	N/A	3/5/15

Client Sample #'s: (b)(4)      Total # of Samples: 12

Relinquished (Client): (b)(4)      Date: 3/5/15      Time: 10:45

Received (Lab): (b)(4)      Date: 3/05/15      Time: 1:20pm

Comments:

*Carrier*



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

**LEAD (Pb) CHAIN OF CUSTODY**  
**EMSL ORDER ID (Lab Use Only):**

1253

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE (800) 220-3675  
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

chip  
chip  
chip

Sample #	Location	Volume/Area	Date/Time Sampled
002	Gray LOC clamp Grey on yellow on orange	<del>800</del> DM	3/5/15 <del>3/5/15</del> DM
003	B2 level 11, Soft Core Int. Siding <sup>lt grey on</sup> <sub>dark</sub> grey spallles		3/5/15
007	B 9101 support column		3/4/15
Air-001	Southside of containment level 11 B2	863.1 L	3/4/15 411min
Air-002	B2 Interface between 10-11	802 L	3/4/15 397min
Air-003	B2 ground Northside near dust collector	786 L	3/4/15 393min
Air-Blank	Blank	N/A	N/A

Comments/Special Instructions:

Ⓢ Email results to (b)(4)



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)  
**Jacobs FOSC Group**  
**Building 1100**  
**Stennis Space Center**  
**Waveland, MS 39529**

Phone: (b)(4)  
 Fax: (228) 688-3368  
 Received: 03/05/15 1:20 PM  
 Collected: 3/4/2015

Project: B2-Surv-01

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
Air-001	251501253-0009	3/4/2015	3/5/2015	863.1 L	<4.6 µg/m <sup>3</sup>
Site: S side of containment level II B2					
Air-002	251501253-0010	3/4/2015	3/5/2015	802 L	<5.0 µg/m <sup>3</sup>
Site: B2 Interface between 10-11					
Air-003	251501253-0011	3/4/2015	3/5/2015	786 L	<5.1 µg/m <sup>3</sup>
Site: B2 ground N side near dust collectors					
Air-Blank	251501253-0012	3/4/2015	3/5/2015	n/a	<4.0 µg/filter
Site: Blank					

(b)(4)  
 (b)(4) laboratory Manager  
 or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m<sup>3</sup> x volume sampled (m<sup>3</sup>). OSHA PEL - 50 µg/m<sup>3</sup>. OSHA action level - 30 µg/m<sup>3</sup>. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.  
 Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/05/2015 16:55:03



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)

**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)

Fax: (228) 688-3368

Received: 03/05/15 1:20 PM

Collected: 3/4/2015

Project: B2-Surv-01

## Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
001 Site: On W Pier stair	251501253-0005	3/4/2015	3/5/2015	21 % wt
002 Site: Gray LOC clamp	251501253-0006	3/4/2015	3/5/2015	7.0 % wt
003 Site: B2 level II, Soft Cove Int.	251501253-0007	3/4/2015	3/5/2015	0.17 % wt
007 ** Site: B9101 support column ** Data reported may not reach applicable analytical sensitivity due to insufficient sample weight submitted. Suggested weight for analysis is 0.2g.	251501253-0008	3/4/2015	3/5/2015	0.14 % wt

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/05/2015 16:55:03



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO: (b)(4)  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**  
Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 03/05/15 1:20 PM  
Collected: 3/4/2015  
Project: B2-Surv-01

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
3316-001 Site: Landing between level 10-11 stairwell	251501253-0001	3/4/2015	3/5/2015	144 in <sup>2</sup>	1500 µg/ft <sup>2</sup>
3415-002 Site: Outside near dust collectors	251501253-0002	3/4/2015	3/5/2015	144 in <sup>2</sup>	240 µg/ft <sup>2</sup>
005 Site: B2 level 13, clean RM Floor	251501253-0003	3/4/2015	3/5/2015	144 in <sup>2</sup>	210 µg/ft <sup>2</sup>
006 Site: Blank	251501253-0004	3/4/2015	3/5/2015	n/a	<10 µg/wipe

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/05/2015 16:55:03



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

# Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

1500

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Company: <u>Jacobs Technology</u>		EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**		
Street: <u>Building 100 RAH 213</u>		Third Party Billing requires written authorization from third party		
City: <u>Stratford State Ct</u> State/Province: <u>MS</u>		Zip/Postal Code: <u>39529</u>	Country: <u>USA</u>	
Report To (Name): <u>(b)(4)</u>		Telephone #: <u>(b)(4)</u>		
Email Address: <u>(b)(4)</u>		Fax #: _____	Purchase Order: <u>(b)(4)</u>	
Project Name/Number: <u>6557-2015</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: <u>(b)(4) 2/12/15 pm</u>		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		
Turnaround Time (TAT) Options* - Please Check				
<input checked="" type="checkbox"/> 3 Hour <input checked="" type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week				
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <small>ASTM non ASTM <input checked="" type="checkbox"/>   *if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other: _____				
Name of Sampler: <u>(b)(4)</u>		Signature of Sampler: <u>(b)(4)</u>		
Sample #	Location	Volume/Area	Date/Time Sampled	
2007	Lev. 9, south, outside	1.0 Ft. <sup>2</sup>	3/17/15	
2006	Lev. 8, South, outside	1.0 Ft. <sup>2</sup>	3/17/15	
2010	Lev. 9, SE, Outside	1.0 Ft. <sup>2</sup>	3/17/15	
2011	Blank	0	3/17/15	
Client Sample #'s: <u>(b)(4)</u>		Total # of Samples: <u>4</u>		
Relinquished (Client): <u>(b)(4)</u>	Date: <u>17 Mar 15</u>	Time: <u>12:05 hr.</u>		
Received (Lab): <u>(b)(4)</u>	Date: <u>3/17/15</u>	Time: <u>12:10 pm</u>		
Comments: _____				

*Courier*



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)

**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)

Fax: (228) 688-3368

Received: 03/17/15 12:10 PM

Collected: 3/17/2015

Project: 6557-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
2002	251501500-0001	3/17/2015	3/17/2015	144 in <sup>2</sup>	1200 µg/ft <sup>2</sup>
	Site: Lev 9, South, Outside				
2006	251501500-0002	3/17/2015	3/17/2015	144 in <sup>2</sup>	220 µg/ft <sup>2</sup>
	Site: Lev 8, South, Outside				
2010	251501500-0003	3/17/2015	3/17/2015	144 in <sup>2</sup>	2000 µg/ft <sup>2</sup>
	Site: Lev 9, SE, Outside				
2011	251501500-0004	3/17/2015	3/17/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/17/2015 16:26:54



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

### Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2346

Baton Rouge, LA 70809

PHONE (225) 755-1920

FAX (225) 755-1989

Company: Jacobs (~~Stennis Space Center~~) - **FOSC** <sup>RP</sup> EMSL-Bill to:  Same  Different  
If Bill to is Different note instructions in Comments\*\*

Street: Building 1100 Suite 213G Third Party Billing requires written authorization from third party  
City: ~~Stennis Space Center~~ **waveland** State/Province: MS Zip/Postal Code: 39529 Country: United States

Report To (Name): (b)(4) Telephone #: (b)(4)

Email Address: (b)(4) Fax #: (b)(4) Purchase Order: (b)(4)

Project Name/Number: 6559-2015 Please Provide Results:  Fax  Email

U.S. State Samples Taken: MS CT Samples:  Commercial/Taxable  Residential/Tax Exempt

Turnaround Time (TAT) Options\* - Please Check

- 3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4) Signature of Sampler: (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
4-15-001	Mezzanine Break Room Floor - Entrance	1 sq ft	4/15/15 / 9:05
4-15-002	Mezzanine Break Room Floor - South	1 sq ft	4/15/15 / 9:08
4-15-003	Blank	-	4/15/15 / 9:10

Client Sample #'s: **001 - 002** Total # of Samples: **3**

Relinquished (Client): (b)(4) Date: 4/15/15 Time: 9:25

Received (Lab): (b)(4) Date: 4/16/15 Time: 10:05 AM

Comments:

*Reg. Index*





# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO: (b)(4)  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**  
Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 04/16/15 10:05 AM  
Collected: 4/15/2015  
Project: 6559-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
4-15-15-001 Site: Mezz. Break Rm Floor-Entrance	251502346-0001	4/15/2015	4/16/2015	144 in <sup>2</sup>	79 µg/ft <sup>2</sup>
4-15-15-002 Site: Mezz. Break Rm Floor-South	251502346-0002	4/15/2015	4/16/2015	144 in <sup>2</sup>	150 µg/ft <sup>2</sup>
4-15-15-003 Site: Blank	251502346-0003	4/15/2015	4/16/2015	n/a	<10 µg/wipe

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/16/2015 12:11:30



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

**Lead (Pb) Chain of Custody**  
EMSL Order ID (Lab Use Only):

2404

Baton Rouge, LA 70809  
PHONE (225) 755-1920  
FAX (225) 755-1989

Company : Jacobs FOSC Group (JCWS50)		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**		
Street: Building 1100 Suite 213G		Third Party Billing requires written authorization from third party		
City: <del>Stennis Space Center</del> <u>Waveland</u>	State/Province: MS	Zip/Postal Code: 39529	Country: United States	
Report To (Name): (b)(4)	Telephone #: (b)(4)			
Email Address: (b)(4)	Fax #: 228-688-6456	Purchase Order: (b)(4)		
Project Name/Number: 6563-2015	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email			
U.S. State Samples Taken: MS	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt			
<b>Turnaround Time (TAT) Options* - Please Check</b>				
<input checked="" type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week	
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
<b>Matrix</b>	<b>Method</b>	<b>Instrument</b>	<b>Reporting Limit</b>	<b>Check</b>
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> <small>*if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>
Name of Sampler: (b)(4)		Signature of Sampler: (b)(4)		
Sample #	Location	Volume/Area	Date/Time Sampled	
4-16-15-001	L11 Floor, near foot of stairwell	1 sq ft	4-16-15 12:30	
4-16-15-002	L11 Floor, near GN Panel	1 sq ft	4-16-15 12:33	
4-16-15-003	L11 Floor, in Room C1109	1 sq ft	4-16-15 12:34	
4-16-15-004	L11 Floor, near bathroom entrance	1 sq ft	4-16-15 12:39	
4-16-15-005	L11 Handrail	1 sq ft	4-16-15 12:41	
Client Sample #'s	001 - 009	Total # of Samples:	9	
Relinquished (Client): (b)(4)	Date:	4/16/15	Time: 2:45p	
Received (Lab): (b)(4)	Date:	4/17/15	Time: 9:45am	
Comments:				

*Reg. Index*



EMSL ANALYTICAL, INC.  
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EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

**LEAD (Pb) CHAIN OF CUSTODY**  
**EMSL ORDER ID (Lab Use Only)**

2404

EMSL Analytical, Inc.  
11931 Industriplex Boulevard,

Baton Rouge, LA 70809

PHONE: (225) 755-1920  
FAX (225) 755-1989

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
4-16-15-006	L11 Stair, mid-landing	1 sq ft	4-16-15 12:47
4-16-15-007	L11 Top of fluorescent light fixture	1 sq ft	4-16-15 2:15
4-16-15-008	L10.5 Stairwell Landing	1 sq ft	4-16-15 2:20
4-16-15-009	Blank	n/a	4-16-15 2:26

Comments/Special Instructions:



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO: (b)(4)  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**  
Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 04/17/15 9:45 AM  
Collected: 4/16/2015  
Project: 6563-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
4-16-15-001 Site: L11 Floor, near foot of stairwell	251502404-0001	4/16/2015	4/17/2015	144 in <sup>2</sup>	210 µg/ft <sup>2</sup>
4-16-15-002 Site: L11 Floor, near GN Panel	251502404-0002	4/16/2015	4/17/2015	144 in <sup>2</sup>	160 µg/ft <sup>2</sup>
4-16-15-003 Site: L11 Floor, in Room C1109	251502404-0003	4/16/2015	4/17/2015	144 in <sup>2</sup>	150 µg/ft <sup>2</sup>
4-16-15-004 Site: L11 Floor, near bathroom entrance	251502404-0004	4/16/2015	4/17/2015	144 in <sup>2</sup>	200 µg/ft <sup>2</sup>
4-16-15-005 Site: L11 Handrail	251502404-0005	4/16/2015	4/17/2015	144 in <sup>2</sup>	41 µg/ft <sup>2</sup>
4-16-15-006 Site: L11 Stair, mid-landing	251502404-0006	4/16/2015	4/17/2015	144 in <sup>2</sup>	1300 µg/ft <sup>2</sup>
4-16-15-007 Site: L11 Top of fluorescent light fixture	251502404-0007	4/16/2015	4/17/2015	144 in <sup>2</sup>	280 µg/ft <sup>2</sup>
4-16-15-008 Site: L10.5 Stairwell Landing	251502404-0008	4/16/2015	4/17/2015	144 in <sup>2</sup>	330 µg/ft <sup>2</sup>
4-16-15-009 Site: Blank	251502404-0009	4/16/2015	4/17/2015	n/a	<10 µg/wipe

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft<sup>2</sup> x area sampled in ft<sup>2</sup>. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/17/2015 12:42:19



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

### Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2422

Baton Rouge, LA 70809

PHONE (225) 755-1920

FAX: (225) 755-1989

Company : Jacobs FOSC Group (JCWS50)		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: Building 1100 Suite 213G		Third Party Billing requires written authorization from third party	
City: Stennis Space Center <i>Waveford</i>	State/Province: MS	Zip/Postal Code: 39529	Country: United States
Report To (Name): (b)(4)	Telephone #: (b)(4)		
Email Address: (b)(4)	Fax #: 228-688-6456	Purchase Order: (b)(4)	
Project Name/Number: 6563-2015	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: MS	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		

Turnaround Time (TAT) Options\* - Please Check

- 3 Hour  
  6 Hour  
  24 Hour  
  48 Hour  
  72 Hour  
  96 Hour  
  1 Week  
  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	10 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4)      Signature of Sampler: (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
4-17-15-001	L16 Guardrail, top rail, north side	1 sq ft	4-17-15
4-17-15-002	L16 Stair rail, top rail	1 sq ft	4-17-15
4-17-15-003	L16 Second step of stairwell	1 sq ft	4-17-15
4-17-15-004	L16 Top of light fixture, SE corner	1 sq ft	4-17-15
4-17-15-005	L16 Blank	1 sq ft	4-17-15

Client Sample #'s: 001 - 005      Total # of Samples: 5

Relinquished (Client): (b)(4)	Date: 4/17/15	Time: 11:18
Received (Lab): (b)(4)	Date: 4/17/15	Time: 1:15 pm
Comments:		

*Courier*



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO: (b)(4)  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**  
Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 04/17/15 1:15 PM  
Collected: 4/17/2015  
Project: 6563-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
4-17-15-001 Site: L 16 Guardrail/top/N side	251502422-0001	4/17/2015	4/17/2015	144 in <sup>2</sup>	85 µg/ft <sup>2</sup>
4-17-15-002 Site: L16 Stair rail/top	251502422-0002	4/17/2015	4/17/2015	144 in <sup>2</sup>	54 µg/ft <sup>2</sup>
4-17-15-003 Site: L16 Second step of stairwell	251502422-0003	4/17/2015	4/17/2015	144 in <sup>2</sup>	2400 µg/ft <sup>2</sup>
4-17-15-004 Site: L16 Top/Light Fixture/SE corner	251502422-0004	4/17/2015	4/17/2015	144 in <sup>2</sup>	210 µg/ft <sup>2</sup>
4-17-15-005 Site: L16 Blank	251502422-0005	4/17/2015	4/17/2015	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/17/2015 15:05:21



### Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only)

2470

Baton Rouge, LA 70809  
PHONE: (225) 755-1920  
FAX: (225) 755-1989

EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

Company : Jacobs FOSC Group (JCWS50)		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: Building 1100 Suite 213G		<i>Third Party Billing requires written authorization from third party</i>	
City: Stennis Space Center	State/Province: MS	Zip/Postal Code: 39529	Country: United States
Report To (Name): (b)(4)	Telephone #: (b)(4)		
Email Address: (b)(4)	Fax #: 228-688-6456	Purchase Order: (b)(4)	
Project Name/Number: 6563-2015	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: MS	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour  
  6 Hour  
  24 Hour  
  48 Hour  
  72 Hour  
  96 Hour  
  1 Week  
  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <small>ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4)      Signature of Sampler: (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
4-20-15-001	L11 Stairs (re-sample)	1 sq ft	4-20-15 9:00
4-20-15-002	L16 Stairs (re-sample)	1 sq ft	4-20-15 9:05
4-20-15-003	L15 Stairs	1 sq ft	4-20-15 9:10
4-20-15-004	L15 Guardrail	1 sq ft	4-20-15 9:12
4-20-15-005	L15 Handrail	1 sq ft	4-20-15 9:14

Client Sample #'s: 001 - 012 (b)(4)      Total # of Samples: 12

Relinquished (Client): (b)(4)      Date: 20 Apr 15      Time: 1325

Received (Lab): (b)(4)      Date: 4/20/15      Time: 1:25pm

Comments:

*Wack H*



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LEAD (Pb) CHAIN OF CUSTODY  
EMSL ORDER ID (Lab Use Only)

2470

EMSL Analytical, Inc.  
11931 Industriplex Boulevard,

Baton Rouge, LA 70809

PHONE: (225) 755-1920  
FAX: (225) 755-1989

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
4-20-15-006	L15 Light Fixture	1 sq ft	4-20-15 9:16
4-20-15-007	L15 Water Tank	1 sq ft	4-20-15 9:18
4-20-15-008	L14 Stairs	1 sq ft	4-20-15 9:20
4-20-15-009	L14 Handrail	1 sq ft	4-20-15 9:22
4-20-15-0010	L14 Guardrail	1 sq ft	4-20-15 9:24
4-20-15-011	L14 Light Fixture	1 sq ft	4-20-15 9:26
4-20-15-012	Blank	n/a	4-20-15

Comments/Special Instructions:





# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO: (b)(4)  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**  
Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 04/20/15 1:25 PM  
Collected: 4/20/2015  
Project: 6563-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
4-20-15-001 Site: L11 Stairs (re-sample)	251502470-0001	4/20/2015	4/20/2015	144 in <sup>2</sup>	1100 µg/ft <sup>2</sup>
4-20-15-002 Site: L16 Stairs (re-sample)	251502470-0002	4/20/2015	4/20/2015	144 in <sup>2</sup>	630 µg/ft <sup>2</sup>
4-20-15-003 Site: L15 Stairs	251502470-0003	4/20/2015	4/20/2015	144 in <sup>2</sup>	210 µg/ft <sup>2</sup>
4-20-15-004 Site: L15 Guardrail	251502470-0004	4/20/2015	4/20/2015	144 in <sup>2</sup>	86 µg/ft <sup>2</sup>
4-20-15-005 Site: L15 Handrail	251502470-0005	4/20/2015	4/20/2015	144 in <sup>2</sup>	180 µg/ft <sup>2</sup>
4-20-15-006 Site: L15 Light Fixture	251502470-0006	4/20/2015	4/20/2015	144 in <sup>2</sup>	72 µg/ft <sup>2</sup>
4-20-15-007 Site: L15 Water Tank	251502470-0007	4/20/2015	4/20/2015	144 in <sup>2</sup>	260 µg/ft <sup>2</sup>
4-20-15-008 Site: L14 Stairs	251502470-0008	4/20/2015	4/20/2015	144 in <sup>2</sup>	98 µg/ft <sup>2</sup>
4-20-15-009 Site: L14 Handrail	251502470-0009	4/20/2015	4/20/2015	144 in <sup>2</sup>	160 µg/ft <sup>2</sup>
4-20-15-010 Site: L14 Guardrail	251502470-0010	4/20/2015	4/20/2015	144 in <sup>2</sup>	34 µg/ft <sup>2</sup>
4-20-15-011 Site: L14 Light Fixture	251502470-0011	4/20/2015	4/20/2015	144 in <sup>2</sup>	66 µg/ft <sup>2</sup>
4-20-15-012 Site: Blank	251502470-0012	4/20/2015	4/20/2015	n/a	<10 µg/wipe

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/20/2015 15:21:18



EMSL ANALYTICAL, INC.  
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### Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2497

Baton Rouge, LA 70809

PHONE: (225) 755-1920

FAX (225) 755-1989

Company : Jacobs FOSC Group (JCWS50)		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: Building 1100 Suite 213G		Third Party Billing requires written authorization from third party	
City: Stennis Space Center	State/Province: MS	Zip/Postal Code: 39529	Country: United States
Report To (Name): (b)(4)	Telephone #: (b)(4)		
Email Address: (b)(4)	Fax #: 228-688-6456	Purchase Order: (b)(4)	
Project Name/Number: 6563-2015	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: MS	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		

Turnaround Time (TAT) Options\* - Please Check

- 3 Hour  
  6 Hour  
  24 Hour  
  48 Hour  
  72 Hour  
  96 Hour  
  1 Week  
  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input checked="" type="checkbox"/> ASTM <input type="checkbox"/> non ASTM *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	10 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4)      Signature of Sampler:

Sample #	Location	Volume/Area	Date/Time Sampled
4-21-15-001	L11 Stairs (re-sample)	1 sq ft	4-21-15 9:15
4-21-15-002	L16 Stairs (re-sample)	1 sq ft	4-21-15 9:20
4-21-15-003	L13 Stairs	1 sq ft	4-21-15 9:25
4-21-15-004	L13 Stair rail	1 sq ft	4-21-15 9:28
4-21-15-005	L13 Guardrail	1 sq ft	4-21-15 9:30

Client Sample #'s: 001 - 010      Total # of Samples: 10

Relinquished (Client): (b)(4)      Date: 2/29/2015      Time: 1:38 pm

Received (Lab): (b)(4)      Date: 4/21/15      Time: 1:40 pm

Comments:

Wack SA



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**EMSL ANALYTICAL, INC.**  
LABORATORY • PRODUCTS • TRAINING

**LEAD (Pb) CHAIN OF CUSTODY**  
**EMSL ORDER ID (Lab Use Only)**

2497

EMSL Analytical, Inc.  
11931 Industriplex Boulevard,

Baton Rouge, LA 70809

PHONE: (225) 755-1920  
FAX: (225) 755-1989

*Additional Pages of the Chain of Custody are only necessary if needed for additional sample information*

Sample #	Location	Volume/Area	Date/Time Sampled
4-21-15-006	L13 Light Fixture	1 sq ft	4-21-15 9:30
4-21-15-007	L12 Stairs	1 sq ft	4-21-15 9:40
4-21-15-008	L12 Stair rail	1 sq ft	4-21-15 9:45
4-21-15-009	L12 Light Fixture	1 sq ft	4-21-15 9:50
4-21-15-010	Blank	N/A	4-21-15 10:40

**Comments/Special Instructions:**



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)

CustomerID: JCWS50

CustomerPO: (b)(4)

ProjectID:

Attn: (b)(4)

**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)

Fax: (228) 688-3368

Received: 04/21/15 1:40 PM

Collected: 4/21/2015

Project: 6563-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
4-21-15-001 Site: L11 Stairs (re-sample)	251502497-0001	4/21/2015	4/21/2015	144 in <sup>2</sup>	220 µg/ft <sup>2</sup>
4-21-15-002 Site: L16 Stairs (re-sample)	251502497-0002	4/21/2015	4/21/2015	144 in <sup>2</sup>	670 µg/ft <sup>2</sup>
4-21-15-003 Site: L13 Stairs	251502497-0003	4/21/2015	4/21/2015	144 in <sup>2</sup>	940 µg/ft <sup>2</sup>
4-21-15-004 Site: L13 Stair rail	251502497-0004	4/21/2015	4/21/2015	144 in <sup>2</sup>	96 µg/ft <sup>2</sup>
4-21-15-005 Site: L13 Guardrail	251502497-0005	4/21/2015	4/21/2015	144 in <sup>2</sup>	59 µg/ft <sup>2</sup>
4-21-15-006 Site: L13 Light Fixture	251502497-0006	4/21/2015	4/21/2015	144 in <sup>2</sup>	210 µg/ft <sup>2</sup>
4-21-15-007 Site: L12 Stairs	251502497-0007	4/21/2015	4/21/2015	144 in <sup>2</sup>	560 µg/ft <sup>2</sup>
4-21-15-008 Site: L12 Stair rail	251502497-0008	4/21/2015	4/21/2015	144 in <sup>2</sup>	71 µg/ft <sup>2</sup>
4-21-15-009 Site: L12 Light Fixture	251502497-0009	4/21/2015	4/21/2015	144 in <sup>2</sup>	370 µg/ft <sup>2</sup>
4-21-15-010 Site: Blank	251502497-0010	4/21/2015	4/21/2015	n/a	<10 µg/wipe

(b)(4)  
(b)(4) laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/21/2015 15:23:30



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LABORATORY PRODUCTS TRAINING  
LABORATORY PRODUCTS TRAINING

### Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only)

2588

Baton Rouge, LA 70809  
PHONE (225) 755-1920  
FAX: (225) 755-1989

Company : Jacobs FOSC Group (JCWS50)		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>		
Street: Building 1100 Suite 213G		<i>Third Party Billing requires written authorization from third party</i>		
City: Stennis Space Center	State/Province: MS	Zip/Postal Code: 39529	Country: United States	
Report To (Name): (b)(4)	Telephone #: (b)(4)			
Email Address: (b)(4)	Fax #: 228-688-6456	Purchase Order: (b)(4)		
Project Name/Number: 6563-2015	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email			
U.S. State Samples Taken: MS	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt			
<b>Turnaround Time (TAT) Options* - Please Check</b>				
<input checked="" type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week				
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <small>ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/>   *if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	10 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other: <input type="checkbox"/>				
Name of Sampler: (b)(4)		Signature of Sampler:		
Sample #	Location	Volume/Area	Date/Time Sampled	
4-22-15-001	L16 Stairs (after acid wash)	1 sq ft	4-22-15 1:15	
4-22-15-002	Blank	n/a	4-22-15 1:15	
Client Sample #'s 001 - 002		Total # of Samples: 2		
Relinquished (Client)	(b)(4)	Date: 4/22/15	Time: 2:30	
Received (Lab):		Date: 4/23/15	Time: 2:50pm	
Comments:				

*Reg. Index*



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO: (b)(4)  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**  
Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 04/23/15 2:50 PM  
Collected: 4/22/2015  
Project: 6563-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
4-22-15-1 Site: L16 Stairs (after acid wash)	251502588-0001	4/22/2015	4/23/2015	144 in <sup>2</sup>	260 µg/ft <sup>2</sup>
4-22-15-2 Site: Blank	251502588-0002	4/22/2015	4/23/2015	n/a	<10 µg/wipe

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/23/2015 16:34:39



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### Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only)

2612

Baton Rouge, LA 70809

PHONE (225) 755-1920

FAX: (225) 755-1989

Company : Jacobs (Stennis Space Center)		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**		
Street: Building 1100 Suite 213G		Third Party Billing requires written authorization from third party		
City: Stennis Space Center	State/Province: MS	Zip/Postal Code: 39529	Country: United States	
Report To (Name): (b)(4)	Telephone #: (b)(4)			
Email Address: (b)(4)	Fax #: 228-688-6456	Purchase Order (b)(4)		
Project Name/Number: 6559-2015	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email			
U.S. State Samples Taken: MS	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt			
<b>Turnaround Time (TAT) Options* - Please Check</b>				
<input type="checkbox"/> 3 Hour	<input checked="" type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week	
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <small>*If no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>
Name of Sampler: (b)(4)		Signature of Sampler: (b)(4)		
Sample #	Location	Volume/Area	Date/Time Sampled	
B1-1	Level 20 outside SW corner	1 sq ft	4/23/2015	
B1-2	Level 20 outside E side	1 sq ft	4/23/2015	
B1-3	Level 20 outside SE side	1 sq ft	4/23/2015	
B1-4	Level 20 outside North side	1 sq ft	4/23/2015	
B1-5	Blank	N/A	4/23/2015	
Client Sample #'s	1 - 5	Total # of Samples:	5	
Relinquished (Client): (b)(4)	Date: 4/23/14	Time: 6:00 pm		
Received (Lab): (b)(4)	Date: 4/24/15	Time: 10:10 am		
Comments:				

*Reg. Index*



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
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<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO: (b)(4)  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**  
Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 04/24/15 10:10 AM  
Collected: 4/23/2015  
Project: 6559-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
B1-1 Site: Level 20 outside SW corner	251502612-0001	4/23/2015	4/24/2015	144 in <sup>2</sup>	170 µg/ft <sup>2</sup>
B1-2 Site: Level 20 outside E side	251502612-0002	4/23/2015	4/24/2015	144 in <sup>2</sup>	210 µg/ft <sup>2</sup>
B1-3 Site: Level 20 outside SE side	251502612-0003	4/23/2015	4/24/2015	144 in <sup>2</sup>	300 µg/ft <sup>2</sup>
B1-4 Site: Level 20 outside N side	251502612-0004	4/23/2015	4/24/2015	144 in <sup>2</sup>	430 µg/ft <sup>2</sup>
B1-5 Site: Blank	251502612-0005	4/23/2015	4/24/2015	n/a	<10 µg/wipe

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/24/2015 16:14:16





EMSL ANALYTICAL, INC.  
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### Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2608

Baton Rouge, LA 70809  
PHONE (225) 755-1920  
FAX (225) 755-1989

Company : Jacobs FOSC Group (JCWS50)		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**		
Street: Building 1100 Suite 213G		Third Party Billing requires written authorization from third party		
City: Stennis Space Center	State/Province: MS	Zip/Postal Code: 39529	Country: United States	
Report To (Name): (b)(4)	Telephone #: (b)(4)			
Email Address: (b)(4)	Fax #: 228-688-6456	Purchase Order: (b)(4)		
Project Name/Number: 6563-2015	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email			
U.S. State Samples Taken: MS	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt			
<b>Turnaround Time (TAT) Options* - Please Check</b>				
<input checked="" type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week	
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <small>ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/>   *if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other: <input type="checkbox"/>				
Name of Sampler: (b)(4)		Signature of Sampler: (b)(4)		
Sample #	Location	Volume/Area	Date/Time Sampled	
4-23-15-001	Level 19 Floor	1 sq ft	4-23-15	
4-23-15-002	Level 19 guard rail	1 sq ft	4-23-15	
4-23-15-003	Level 19 Light Fixture	1 sq ft	4-23-15	
4-23-15-004	Level 18 Stairs	1 sq ft	4-23-15	
4-23-15-005	Level 18 Stair rail	1 sq ft	4-23-15	
Client Sample #'s	1 - 15		Total # of Samples: 15	
Relinquished (Client)	(b)(4)	Date: 4/23/15	Time: 6:00 pm	
Received (Lab):	(b)(4)	Date: 4/24/15	Time: 10:10 am	
Comments:				

*Reg. Felix*



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING  
EMSL ANALYTICAL, INC.  
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**LEAD (Pb) CHAIN OF CUSTODY**  
EMSL ORDER ID (Lab Use Only):

2608

EMSL Analytical, Inc  
11931 Industriplex Boulevard,

Baton Rouge, LA 70809

PHONE (225) 755-1920

FAX (225) 755-1989

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
4-23-15-006	Level 18 Light Fixture	1 sq ft	4-23-15
4-23-15-007	Level 18 Top of Fuse Box	1 sq ft	4-23-15
4-23-15-008	Level 18 guard rail	1 sq ft	4-23-15
4-23-15-009	Level 17 Stairs	1 sq ft	4-23-15
4-23-15-010	Level 17 <del>stair</del> <sup>PM</sup> Stair rail	1 sq ft	4-23-15
42315-011	Level 17 Guard rail	1 sq ft	4-23-15
42315-012	Level 17 Cable tray	1 sq ft	4-23-15
42315-013	Level 17 Light Fixture	1 sq ft	4-23-15
42315-014	Blank	<del>1 sq ft</del> N/A	4-23-15
42315-015	Blank	<del>1 sq ft</del> N/A	4-23-15
42315-016			
Comments/Special Instructions:			



# EMSL Analytical, Inc.

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Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)

**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 04/24/15 10:10 AM  
Collected: 4/23/2015

Project: 6563-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
4-23-15-001 Site: Level 19 Floor	251502608-0001	4/23/2015	4/24/2015	144 in <sup>2</sup>	49 µg/ft <sup>2</sup>
4-23-15-002 Site: Level 19 guard rail	251502608-0002	4/23/2015	4/24/2015	144 in <sup>2</sup>	150 µg/ft <sup>2</sup>
4-23-15-003 Site: Level 19 Light Fixture	251502608-0003	4/23/2015	4/24/2015	144 in <sup>2</sup>	240 µg/ft <sup>2</sup>
4-23-15-004 Site: Level 18 Stairs	251502608-0004	4/23/2015	4/24/2015	144 in <sup>2</sup>	210 µg/ft <sup>2</sup>
4-23-15-005 Site: Level 18 Stair rail	251502608-0005	4/23/2015	4/24/2015	144 in <sup>2</sup>	77 µg/ft <sup>2</sup>
4-23-15-006 Site: Level 18 Light Fixture	251502608-0006	4/23/2015	4/24/2015	144 in <sup>2</sup>	96 µg/ft <sup>2</sup>
4-23-15-007 Site: Level 18 Top of Fuse Box	251502608-0007	4/23/2015	4/24/2015	144 in <sup>2</sup>	1100 µg/ft <sup>2</sup>
4-23-15-008 Site: Level 18 guard rail	251502608-0008	4/23/2015	4/24/2015	144 in <sup>2</sup>	100 µg/ft <sup>2</sup>
4-23-15-009 Site: Level 17 Stairs	251502608-0009	4/23/2015	4/24/2015	144 in <sup>2</sup>	780 µg/ft <sup>2</sup>
4-23-15-010 Site: Level 17 Stair rail	251502608-0010	4/23/2015	4/24/2015	144 in <sup>2</sup>	110 µg/ft <sup>2</sup>
42315-011 Site: Level 17 Guard rail	251502608-0011	4/23/2015	4/24/2015	144 in <sup>2</sup>	74 µg/ft <sup>2</sup>
42315-012 Site: Level 17 Cable tray	251502608-0012	4/23/2015	4/24/2015	144 in <sup>2</sup>	460 µg/ft <sup>2</sup>
42315-013 Site: Level 17 Light Fixture	251502608-0013	4/23/2015	4/24/2015	144 in <sup>2</sup>	4600 µg/ft <sup>2</sup>
42315-014 Site: Blank	251502608-0014	4/23/2015	4/24/2015	n/a	<10 µg/wipe
42315-015 Site: Blank	251502608-0015	4/23/2015	4/24/2015	n/a	<10 µg/wipe

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/24/2015 16:12:58



**EMSL Analytical, Inc.**

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO: (b)(4)  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**  
Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 04/24/15 10:10 AM  
Collected: 4/23/2015  
Project: 6563-2015

**Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
----------------------------------	---------------	------------------	-----------------	---------------------	---------------------------

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in ug/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/24/2015 16:12:58

EMSL Analytical, Inc.  
 11931 Industriplex Boulevard,  
 Baton Rouge, LA 70809  
 PHONE: (225) 755-1920  
 FAX: (225) 755-1989



EMSL ANALYTICAL, INC.  
 LABORATORY • PRODUCTS • TRAINING  
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### Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2638

Company : Jacobs FOSC Group (JCWS50)		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: Building 1100 Suite 213G		Third Party Billing requires written authorization from third party	
City: Stennis Space Center	State/Province: MS	Zip/Postal Code: 39529	Country: United States
Report To (Name): (b)(4)	Telephone #: (b)(4)		
Email Address: (b)(4)	Fax #: 228-688-6456	Purchase Order: (b)(4)	
Project Name/Number: 6563-2015	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: MS	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200 7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200 8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4) Signature of Sampler: (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
4-24-15-001	Level 12, Stairs (resample)	1 sq ft	4-24-15
4-24-15-002	Level 13, Stairs (resample)	1 sq ft	4-24-15
4-24-15-003	Blank	n/a	4-24-15

Client Sample #'s: 001 - 003 Total # of Samples: 3

Relinquished (Client): (b)(4) Date: 4/24/15 Time: 3:06  
 Received (Lab): (b)(4) Date: 4/27/15 Time: 8:40 am  
 Comments:

Reg. Index



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO: (b)(4)  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 04/27/15 8:40 AM  
Collected: 4/24/2015

Project: 6563-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
4-24-15-001 Site: Level 12, Stairs (resample)	251502638-0001	4/24/2015	4/28/2015	144 in <sup>2</sup>	610 µg/ft <sup>2</sup>
4-24-15-002 Site: Level 13, Stairs (resample)	251502638-0002	4/24/2015	4/28/2015	144 in <sup>2</sup>	420 µg/ft <sup>2</sup>
4-24-15-003 Site: Blank	251502638-0003	4/24/2015	4/28/2015	n/a	<10 µg/wipe

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/28/2015 11:11:07



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### Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2656

Baton Rouge, LA 70809

PHONE: (225) 755-1920

FAX: (225) 755-1989

Company : Jacobs FOSC Group (JCWS50)		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: Building 1100 Suite 213G		Third Party Billing requires written authorization from third party	
City: Stennis Space Center	State/Province: MS	Zip/Postal Code: 39529	Country: United States
Report To (Name): (b)(4)	Telephone #: (b)(4)		
Email Address: (b)(4)	Fax #: 228-688-6456	Purchase Order: (b)(4)	
Project Name/Number: 6563-2015	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: MS	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		

Turnaround Time (TAT) Options\* - Please Check

3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200 7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200 8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4) Signature of Sampler: (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
4-27-15-001	L17 Stairs (re-sample)	1 sq ft	4-27-15
4-27-15-002	L17 Cable Tray (re-sample)	1 sq ft	4-27-15
4-27-15-003	L17 Light Fixture (re-sample)	1 sq ft	4-27-15
4-27-15-004	L18 Stairs (re-sample) <sup>dry</sup> Electrical panel	1 sq ft	4-27-15
4-27-15-005	Blank	n/a	4-27-15

Client Sample #'s 001 - 005 Total # of Samples: 5

Relinquished (Client): (b)(4) Date: 4/27/15 Time: 2:45 pm

Received (Lab): (b)(4) Date: 4/28/15 Time: 9:15 AM

Comments:

*Fig. Index*



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)

**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)

Fax: (228) 688-3368

Received: 04/28/15 9:15 AM

Collected: 4/27/2015

Project: 6563-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
4-27-15-001 Site: L17 Stairs (re-sample)	251502656-0001	4/27/2015	4/28/2015	144 in <sup>2</sup>	1000 µg/ft <sup>2</sup>
4-27-15-002 Site: L17 Cable Tray (re-sample)	251502656-0002	4/27/2015	4/28/2015	144 in <sup>2</sup>	270 µg/ft <sup>2</sup>
4-27-15-003 Site: L17 Light Fixture (re-sample)	251502656-0003	4/27/2015	4/28/2015	144 in <sup>2</sup>	130 µg/ft <sup>2</sup>
4-27-15-004 Site: L18 Electrical panel	251502656-0004	4/27/2015	4/28/2015	144 in <sup>2</sup>	550 µg/ft <sup>2</sup>
4-27-15-005 Site: Blank	251502656-0005	4/27/2015	4/28/2015	n/a	<10 µg/wipe

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/28/2015 12:27:17





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# Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2728

Baton Rouge, LA 70809

PHONE: (225) 755-1920

FAX: (225) 755-1989

Company : Jacobs FOSC Group (JCWS50)		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: Building 1100 Suite 213G		Third Party Billing requires written authorization from third party	
City: Stennis Space Center	State/Province: MS	Zip/Postal Code: 39529	Country: United States
Report To (Name): (b)(4)		Telephone #: (b)(4)	
Email Address: (b)(4)		Fax #: 228-688-6456	Purchase Order: (b)(4)
Project Name/Number: 6563-2015		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: MS		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options\* - Please Check

- 3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4) Signature of Sampler:

Sample #	Location	Volume/Area	Date/Time Sampled
4-29-15-006	L9 South Exterior	1 sq ft	4-29-15
<del>4-29-15-007</del>	<del>L8.5 North Exterior</del>	<del>1 sq ft</del>	<del>4-29-15</del>
4-29-15-008	Blank	n/a	4-29-15

Omit and discard per (b)(4)

Client Sample #'s: 006, 008 Total # of Samples: 3 (b)(4)

Relinquished (Client): (b)(4) Time: 4/29/15 2:25  
 Received (Lab): (b)(4) Time: 4/30/15 9:50 AM

Comments:

Reg. Index



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)  
**Jacobs FOSC Group**  
**Building 1100**  
**Stennis Space Center**  
**Waveland, MS 39529**

Phone: (b)(4)  
 Fax: (228) 688-3368  
 Received: 04/30/15 9:50 AM  
 Collected: 4/29/2015

Project: 6563-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
4-29-15-006	251502728-0001	4/29/2015	4/30/2015	144 in <sup>2</sup>	1100 µg/ft <sup>2</sup>
	Site: L9 South Exterior				
4-29-15-008	251502728-0002	4/29/2015	4/30/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)  
 (b)(4) Laboratory Manager  
 or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/30/2015 13:34:15



EMSL ANALYTICAL, INC.  
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**Lead (Pb) Chain of Custody**  
EMSL Order ID (Lab Use Only)

2727

Baton Rouge, LA 70809  
PHONE (225) 755-1920  
FAX (225) 755-1989

Company : Jacobs FOSC Group (JCWS50)		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: Building 1100 Suite 213G		Third Party Billing requires written authorization from third party	
City: Stennis Space Center	State/Province: MS	Zip/Postal Code: 39529	Country: United States
Report To (Name): (b)(4)	Telephone #: (b)(4)		
Email Address: (b)(4)	Fax #: 228-688-6456	Purchase Order: (b)(4)	
Project Name/Number: 6563-2015	Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: MS	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4) Signature of Sampler:

Sample #	Location	Volume/Area	Date/Time Sampled
4-29-15-001	L12 Stairs (re-sample)	1 sq ft	4-29-15
4-29-15-002	L13 Stairs (re-sample)	1 sq ft	4-29-15
4-29-15-003	L17 Stairs (re-sample)	1 sq ft	4-29-15
4-29-15-004	L18 Electrical Box (re-sample)	1 sq ft	4-29-15
4-29-15-005	Blank	n/a	4-29-15

Client Sample #'s 001 - 005 Total # of Samples: 5

Relinquished (Client): (b)(4)	Date: 4/29/15	Time: 2:25
Received (Lab): (b)(4)	Date: 4/30/15	Time: 9:50 am

Comments:

Reg. Index



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)  
**Jacobs FOSC Group**  
**Building 1100**  
**Stennis Space Center**  
**Waveland, MS 39529**

Phone: (b)(4)  
 Fax: (228) 688-3368  
 Received: 04/30/15 9:50 AM  
 Collected: 4/29/2015

Project: 6563-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
4-29-15-001 Site: L12 Stairs (re-sample)	251502727-0001	4/29/2015	4/30/2015	144 in <sup>2</sup>	430 µg/ft <sup>2</sup>
4-29-15-002 Site: L13 Stairs (re-sample)	251502727-0002	4/29/2015	4/30/2015	144 in <sup>2</sup>	330 µg/ft <sup>2</sup>
4-29-15-003 Site: L17 Stairs (re-sample)	251502727-0003	4/29/2015	4/30/2015	144 in <sup>2</sup>	300 µg/ft <sup>2</sup>
4-29-15-004 Site: L18 Electrical Box (re-sample)	251502727-0004	4/29/2015	4/30/2015	144 in <sup>2</sup>	22 µg/ft <sup>2</sup>
4-29-15-005 Site: Blank	251502727-0005	4/29/2015	4/30/2015	n/a	<10 µg/wipe

(b)(4)  
 (b)(4) Laboratory Manager  
 or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft<sup>2</sup> x area sampled in ft<sup>2</sup>. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/30/2015 13:32:39



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO: (b)(4)  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**  
Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 05/05/15 10:00 AM  
Collected: 5/4/2015  
Project: B2 Lead

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
5-4-15-01 Site: B2, Level 8.5 N, Floor	251502850-0001	5/4/2015	5/5/2015	144 in <sup>2</sup>	300 µg/ft <sup>2</sup>
5-4-15-02 Site: Blank	251502850-0002	5/4/2015	5/5/2015	0 in <sup>2</sup>	<10 µg/wipe

(b)(4)  
\_\_\_\_\_  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 05/05/2015 15:09:04



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS YEARLING

# Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

[Redacted]

11931 Industripark  
Suite 100  
Baton Rouge, LA 70801  
EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Company: <u>Jacobs Technology - FOSC</u>		EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>Building 1100, R 213D</u>		Third Party Billing requires written authorization from third party	
City: <u>Waveland / Stennis</u> State/Province: <u>MS</u>		Zip/Postal Code: <u>39529</u>	Country: <u>U.S.</u>
Report To (Name): <u>(b)(4)</u>		Telephone #:	
Email Address: <u>(b)(4)</u>		Fax #:	Purchase Order: <u>(b)(4)</u>
Project Name/Number: <u>D/L Lead</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: <u>MS</u>		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options\* - Please Check

3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4) Signature of Sampler: (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
<u>54-15-01</u>	<u>B2, Level 8.5 N, Floor</u>	<u>144 in<sup>2</sup></u>	<u>5/4/15</u>
<u>54-15-02</u>	<u>Blank</u>	<u>0 in<sup>2</sup></u>	<u>5/4/15</u>

Client Sample #'s: (b)(4) Total # of Samples: 2

Relinquished (Client): (b)(4) Date: 5/4/15 Time: \_\_\_\_\_

Received (Lab): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments:



# ANALYTICAL REQUEST FORM

REGULAR Status 1504707

RUSH Status Required - ADDITIONAL CHARGE

RESULTS REQUIRED BY \_\_\_\_\_

DATE

CONTACT ALS LABORATORY GROUP PRIOR TO SENDING SAMPLES

Date 4/16/15 Purchase Order No. 292426

Company Name Jacobs (Stennis Space Center)

Address Building 1100, Suite 213G

Stennis Space Center MS 39529

Person to Contact (b)(4)

Email Address (b)(4)

Telephone (b)(4)

Fax Telephone ( 228 ) 688-6456

Billing Address (if different)

Quote No. 5017, 4946

Sampling Site Stennis Space Center

Date/Time of Collection 4/10/2015 / 0900

Laboratory Use Only	Client Sample Number	Media Type	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
<u>01</u>	<u>001</u>	<u>MCE</u>	<u>395</u>	<u>NIOSH 7300 mod. Lead, Cadmium and Chromium</u>
<u>02</u>	<u>002</u>	<u>MCE</u>	<u>395</u>	<u>NIOSH 7300 mod. Lead, Cadmium and Chromium</u>
<u>03</u>	<u>003</u>	<u>Bulk</u>	<u>N/A</u>	<u>SW601B and SW7199 Lead, Cadmium, Chromium and Hexavalent Chromium</u>
<u>04</u>	<u>004</u>	<u>MCE</u>	<u>BLANK</u>	<u>NIOSH 7300 mod. Lead, Cadmium, Chromium</u>

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

### CHAIN OF CUSTODY

Relinquish (Signature) <u>(b)(4)</u>	Date / Time <u>4/20/15 2:30</u>	<u>(b)(4)</u>	Date / Time <u>4/21/15</u>
Relinquish (Signature)	Date / Time	<u>(b)(4)</u>	Date / Time <u>11:10</u>

ALS ENVIRONMENTAL 4388 Glendale Milford Road / Cincinnati, OH

DELIVERY METHOD: FEDEX

STD / PRY MAIL UPS  
 CLIENT DROP BOX  
 ALS COURIER  
 OTHER: \_\_\_\_\_

COOLING METHOD: NONE

COOLER WET ICE ICE PACK  
 CUSTODY SEALS: NONE  
 COOLER PACKAGE SAMPLES  
 COOLER TEMP

33-5347



28-Apr-2015

(b)(4)

Jacobs Technology, Inc.  
Stennis Space Center  
Building 1100, Suite 213G  
, MS 39529

Tel: (b)(4)  
Fax: (228) 688-6456

Re: Stennis Space Center

Work Order: (b)(4)

Dear (b)(4)

ALS Environmental received 4 samples on 21-Apr-2015 11:10 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

(b)(4)

Electronically approved by: (b)(4)

(b)(4)

Project Manager



**Client:** Jacobs Technology, Inc.  
**Project:** Stennis Space Center  
**Work Order:** (b)(4)

**Work Order Sample Summary**

---

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1504707-01	001	Air		4/10/2015 09:00	4/21/2015 11:10	<input type="checkbox"/>
1504707-02	002	Air		4/10/2015 09:00	4/21/2015 11:10	<input type="checkbox"/>
1504707-03	003	Bulk		4/10/2015 09:00	4/21/2015 11:10	<input type="checkbox"/>
1504707-04	004	Air		4/10/2015 09:00	4/21/2015 11:10	<input type="checkbox"/>

## ALS Environmental

Date: 28-Apr-15

---

**Client:** Jacobs Technology, Inc.

**Project:** Stennis Space Center

**Work Order:** (b)(4)

## Case Narrative

---

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

Client: Jacobs Technology, Inc.  
Project: Stennis Space Center

Work Order: (b)(4)

Analytical Results

Lab ID: 1504707-01A  
Client Sample ID: 001

Collection Date: 4/10/2015 9:00:00 AM  
Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 395	Analyst: SRL
Date Analyzed: 4/22/2015 16:42		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Cadmium	ND	0.10	<0.00025	
Chromium	ND	1.0	<0.0025	
<b>Lead</b>	<b>22</b>	<b>1.0</b>	<b>0.055</b>	

Lab ID: 1504707-02A  
Client Sample ID: 002

Collection Date: 4/10/2015 9:00:00 AM  
Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 395	Analyst: SRL
Date Analyzed: 4/22/2015 16:45		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Cadmium	ND	0.10	<0.00025	
Chromium	ND	1.0	<0.0025	
<b>Lead</b>	<b>6.2</b>	<b>1.0</b>	<b>0.016</b>	

Note:

**ALS Environmental**

Date: 28-Apr-15

Client: Jacobs Technology, Inc.

Project: Stennis Space Center

Sample ID: 003

Collection Date: 4/10/2015 09:00 AM

Work Order: (b)(4)

Lab ID: 1504707-03

Matrix: BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>HEXAVALENT CHROMIUM BY SW846 7199</b>			<b>SW7199</b>		Prep Date: <b>4/21/2015</b>	Analyst: <b>MHW</b>
Chromium, Hexavalent	11		2.4	mg/Kg	1	4/22/2015 03:03 PM
<b>METALS BY ICP</b>			<b>SW6010B</b>		Prep Date: <b>4/24/2015</b>	Analyst: <b>VAW</b>
Cadmium	2.5		0.97	mg/Kg	1	4/28/2015 11:47 AM
Chromium	120		1.9	mg/Kg	1	4/28/2015 11:47 AM
Lead	350,000		490	mg/Kg	100	4/28/2015 01:37 PM

Note:

Client: Jacobs Technology, Inc.  
Project: Stennis Space Center

Work Order: (b)(4)

### Analytical Results

Lab ID: 1504707-04A

Collection Date: 4/10/2015 9:00:00 AM

Client Sample ID: 004

Matrix: AIR

#### Analyses

<b>METALS BY NIOSH 7300 MOD.</b>		Method: <b>N7300</b>	Air Volume (L): <b>0</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/22/2015 16:48		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Cadmium	ND	0.10	NA	
Chromium	ND	1.0	NA	
Lead	ND	1.0	NA	

Note:

Client: Jacobs Technology, Inc.  
 Work Order: (b)(4)  
 Project: Stennis Space Center

**QC BATCH REPORT**

Batch ID: 28009 Instrument ID: HPLC3 Method: SW7199

<b>MBLK</b>	Sample ID: <b>MBLK-28009-28009</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2015 11:23 AM</b>				
Client ID:	Run ID: <b>HPLC3_150422A</b>			SeqNo: <b>1042353</b>		Prep Date: <b>4/21/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 0.25

<b>LCS</b>	Sample ID: <b>LCS-28009-28009</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2015 10:57 AM</b>				
Client ID:	Run ID: <b>HPLC3_150422A</b>			SeqNo: <b>1042351</b>		Prep Date: <b>4/21/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 47.27 0.25 50 0 94.5 83-115 0

<b>LCSD</b>	Sample ID: <b>LCSD-28009-28009</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2015 11:10 AM</b>				
Client ID:	Run ID: <b>HPLC3_150422A</b>			SeqNo: <b>1042352</b>		Prep Date: <b>4/21/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 47.32 0.25 50 0 94.6 70-130 47.27 0.106 20

<b>MS</b>	Sample ID: <b>1504651-01A MS</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2015 03:28 PM</b>				
Client ID:	Run ID: <b>HPLC3_150422A</b>			SeqNo: <b>1042370</b>		Prep Date: <b>4/21/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 439.2 2.4 470.8 0.396 93.2 70-130 0

<b>MSD</b>	Sample ID: <b>1504651-01A MSD</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2015 04:07 PM</b>				
Client ID:	Run ID: <b>HPLC3_150422A</b>			SeqNo: <b>1042371</b>		Prep Date: <b>4/21/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 440.4 2.4 478.9 0.396 91.9 70-130 439.2 0.274 20

<b>DUP</b>	Sample ID: <b>1504649-01A DUP</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2015 11:49 AM</b>				
Client ID:	Run ID: <b>HPLC3_150422A</b>			SeqNo: <b>1042355</b>		Prep Date: <b>4/21/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 2.5 0 0 0 0.5929 0

<b>DUP</b>	Sample ID: <b>1504650-01A DUP</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2015 12:15 PM</b>				
Client ID:	Run ID: <b>HPLC3_150422A</b>			SeqNo: <b>1042357</b>		Prep Date: <b>4/21/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 2.4 0 0 0 0.6679 0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Jacobs Technology, Inc.  
 Work Order: (b)(4)  
 Project: Stennis Space Center

# QC BATCH REPORT

Batch ID: 28009 Instrument ID: HPLC3 Method: SW7199

<b>DUP</b>	Sample ID: 1504651-01A DUP	Units: mg/Kg	Analysis Date: 4/22/2015 12:41 PM							
Client ID:	Run ID: HPLC3_150422A	SeqNo: 1042359	Prep Date: 4/21/2015 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 2.4 0 0 0 0.396 0

<b>DUP</b>	Sample ID: 1504651-02A DUP	Units: mg/Kg	Analysis Date: 4/22/2015 01:32 PM							
Client ID:	Run ID: HPLC3_150422A	SeqNo: 1042361	Prep Date: 4/21/2015 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 2.6 0 0 0 2.062 0

<b>DUP</b>	Sample ID: 1504651-03A DUP	Units: mg/Kg	Analysis Date: 4/22/2015 01:58 PM							
Client ID:	Run ID: HPLC3_150422A	SeqNo: 1042363	Prep Date: 4/21/2015 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 2.5 0 0 0 0.7937 0

<b>DUP</b>	Sample ID: 1504652-01A DUP	Units: mg/Kg	Analysis Date: 4/22/2015 02:24 PM							
Client ID:	Run ID: HPLC3_150422A	SeqNo: 1042365	Prep Date: 4/21/2015 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 2.2 0 0 0 0.3873 0

<b>DUP</b>	Sample ID: 1504652-02A DUP	Units: mg/Kg	Analysis Date: 4/22/2015 02:50 PM							
Client ID:	Run ID: HPLC3_150422A	SeqNo: 1042367	Prep Date: 4/21/2015 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 276.8 2.5 0 0 0 275.8 0.358

<b>DUP</b>	Sample ID: 1504707-03A DUP	Units: mg/Kg	Analysis Date: 4/22/2015 03:15 PM							
Client ID: 003	Run ID: HPLC3_150422A	SeqNo: 1042369	Prep Date: 4/21/2015 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 11.12 2.4 0 0 0 10.63 4.46

The following samples were analyzed in this batch: 1504707-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Jacobs Technology, Inc.

# QC BATCH REPORT

Work Order: (b)(4)

Project: Stennis Space Center

Batch ID: 28003

Instrument ID: ICP1

Method: N7300

MBLK		Sample ID: MBLK-28003-28003			Units: µg/sample		Analysis Date: 4/22/2015 03:17 PM			
Client ID:		Run ID: ICP1_150422A			SeqNo: 1043109		Prep Date: 4/22/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	U	0.10								
Chromium	ND	1.0								
Lead	U	1.0								

LCS		Sample ID: LCS-28003-28003			Units: µg/sample		Analysis Date: 4/22/2015 03:20 PM			
Client ID:		Run ID: ICP1_150422A			SeqNo: 1043110		Prep Date: 4/22/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	19.75	0.10	20	0	98.8	80-120	0			
Chromium	20.12	1.0	20	0	101	80-120	0			
Lead	20.46	1.0	20	0	102	80-120	0			

LCSD		Sample ID: LCSD-28003-28003			Units: µg/sample		Analysis Date: 4/22/2015 03:23 PM			
Client ID:		Run ID: ICP1_150422A			SeqNo: 1043111		Prep Date: 4/22/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	20.16	0.10	20	0	101	80-120	19.75	2.03	20	
Chromium	20.54	1.0	20	0	103	80-120	20.12	2.07	20	
Lead	20.94	1.0	20	0	105	80-120	20.46	2.32	20	

The following samples were analyzed in this batch:

1504707-01A	1504707-02A	1504707-04A
-------------	-------------	-------------

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Jacobs Technology, Inc.  
**Project:** Stennis Space Center  
**WorkOrder:** (b)(4)

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	
mg/Kg	

Sample Receipt Checklist

Client Name: JACOBS-MISSISSIPPI

Date/Time Received: 21-Apr-15 11:10

Work Order: 1504707

Received by: SNH

Checklist completed by: (b)(4) 21-Apr-15  
eSignature Date

Reviewed by: (b)(4) 22-Apr-15  
eSignature Date

Matrices:

Carrier name: FedEx

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance? Yes  No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



### Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only):

2984

Baton Rouge, LA 70809  
PHONE: (225) 755-1920  
FAX: (225) 755-1989

**EMSL ANALYTICAL INC.**  
LABORATORY • PRODUCTS • TRAINING  
LABORATORY • PRODUCTS • TRAINING

Company : Jacobs (Stennis Space Center)		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>		
Street: Building 1100 Suite 213G		<i>Third Party Billing requires written authorization from third party</i>		
City: Stennis Space Center	State/Province: MS	Zip/Postal Code: 39529	Country: United States	
Report To (Name): (b)(4)		Telephone #: (b)(4)		
Email Address: (b)(4)		Fax #:	Purchase Order: (b)(4)	
Project Name/Number:		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: MS		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		
<b>Turnaround Time (TAT) Options* - Please Check</b>				
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input checked="" type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week				
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
(4) Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm Air	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105 NIOSH 7300 modified	Graphite Furnace AA ICP-AES/ICP-MS	0.03 µg/filter 0.5 µg/filter	<input type="checkbox"/> <input type="checkbox"/>
Wipe*                      ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM <input type="checkbox"/> Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater    Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water    Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other: <input type="checkbox"/>				
Name of Sampler: (b)(4)		Signature of Sampler:		
Sample #	Location	Volume/Area	Date/Time Sampled	
050615-002	Crane near spool		5/6/15	
Client Sample #'s	(b)(4)		Total # of Samples:	1
Relinquished (Client)	(b)(4)	Date: 5/7/15	Time: 2:30	
Received (Lab):	(b)(4)	Date: 5/08/15	Time: 10:20 AM	
Comments:				

*Reg. Entry*



**EMSL Analytical, Inc.**

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)  
**Jacobs FOSC Group**  
**Building 1100**  
**Stennis Space Center**  
**Waveland, MS 39529**

Phone: (b)(4)  
 Fax: (228) 688-3368  
 Received: 05/08/15 10:20 AM  
 Collected: 5/6/2015

**Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)\***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
050615-002	251502984-0001	5/6/2015	5/11/2015	7.7 % wt
Site: Crane near spool				

(b)(4)  
 (b)(4) Laboratory Manager  
 or other approved signatory

\*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 05/11/2015 11:36:46



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO:  
ProjectID:

Attn: (b)(4)  
**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 07/08/15 10:10 AM  
Collected: 7/7/2015

Project: IH-1150-15262

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
0715-01	251504433-0001	7/7/2015	7/8/2015	144 in <sup>2</sup>	46 µg/ft <sup>2</sup>
Site: Supply Storage Area					

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/08/2015 16:13:58



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
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<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO:  
ProjectID:

Attn: (b)(4)  
**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 07/15/15 10:45 AM  
Collected: 7/14/2015

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

Client Sample Description	Lab ID	Collected	Analyzed	Volume	Lead Concentration
001	251504602-0001	7/14/2015	7/16/2015	824.6 L	<4.9 µg/m³
Site: Level 16 North					
002	251504602-0002	7/14/2015	7/16/2015	887.25 L	<4.5 µg/m³
Site: Level 10.5 South					

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, AZLA Accredited Environmental Testing Cert #2845.03

Initial report from 07/16/2015 10:02:29



**EMSL Analytical, Inc.**

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO:  
ProjectID:

Attn: (b)(4)  
**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 07/15/15 10:45 AM  
Collected: 7/14/2015

**Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
0030714	251504602-0003	7/14/2015	7/15/2015	144 in <sup>2</sup>	13 µg/ft <sup>2</sup>
	Site: Supply Storage Area				
0040714	251504602-0004	7/14/2015	7/15/2015	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
	Site: Clean Room				

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/16/2015 10:02:29



EMSL ANALYTICAL INC.  
LABORATORY PRODUCTS TRAINING  
LABORATORY PRODUCTS TRAINING

### Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

4846

Baton Rouge, LA 70809

PHONE: (225) 755-1920

FAX: (225) 755-1989

Company - Jacobs (Stennis Space Center)		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>		
Street: Building 1100 Suite 213G		<i>Third Party Billing requires written authorization from third party</i>		
City: Stennis Space Center	State/Province: MS	Zip/Postal Code: 39529	Country: United States	
Report To (Name): (b)(4)		Telephone #: (b)(4)		
Email Address: (b)(4)		Fax #:	Purchase Order: (b)(4)	
Project Name/Number: 6618-2015		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U S State Samples Taken: MS		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		
<b>Turnaround Time (TAT) Options* - Please Check</b>				
<input type="checkbox"/> 3 Hour   <input type="checkbox"/> 6 Hour <input checked="" type="checkbox"/> 24 Hour   <input type="checkbox"/> 48 Hour   <input type="checkbox"/> 72 Hour   <input type="checkbox"/> 96 Hour   <input type="checkbox"/> 1 Week   <input type="checkbox"/> 2 Week <small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input checked="" type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <small>ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> *If no box is checked non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other: <input type="checkbox"/>				
Name of Sampler: (b)(4)		Signature of Sampler: (b)(4)		
Sample #	Location	Volume/Area	Date/Time Sampled	
001	9th floor outside south (wipe)	1 square foot	7/16/15	
002	NACE Inspector AJ (air)	50 Liters	7/16/15	
003	Blank (wipe)	N/A	7/16/15	
004	Blank (air)	N/A	7/16/15	
Client Sample #'s: (b)(4)		Total # of Samples: 4		
Relinquished (Client): (b)(4)	Date: 7/22/15	Time: 1300		
Received (Lab): (b)(4)	Date: 7/23/15	Time: 10:00 AM		
Comments:				
<small>Killie Deborah Holler Building 1100 Suite 1017C Stennis Space Center MS 39529 deborah.s.holler@nasa.gov</small>				

*Reg July*





# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	JCWS50
CustomerPO:	(b)(4)
ProjectID:	

Attn: (b)(4)

**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 07/23/15 11:44 AM  
Collected:

Project: 6618-2015

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
002	251504846-0003 Site: NACE Inspector AJ	7/23/2015	7/23/2015	50 L	<80 µg/m <sup>3</sup>
004	251504846-0004 Site: Blank	7/23/2015	7/23/2015	n/a	<4.0 µg/filter

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m<sup>3</sup> x volume sampled (m<sup>3</sup>). OSHA PEL - 50 µg/m<sup>3</sup>. OSHA action level - 30 µg/m<sup>3</sup>. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/23/2015 16:10:57



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: JCWS50  
CustomerPO: (b)(4)  
ProjectID:

Attn: (b)(4)  
**Jacobs FOSC Group  
Building 1100  
Stennis Space Center  
Waveland, MS 39529**

Phone: (b)(4)  
Fax: (228) 688-3368  
Received: 07/23/15 11:44 AM  
Collected:

Project: 6618-2015

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
001	251504846-0001 Site: 9th floor outside south	7/23/2015	7/23/2015	144 in <sup>2</sup>	1100 µg/ft <sup>2</sup>
003	251504846-0002 Site: Blank	7/23/2015	7/23/2015	n/a	<10 µg/wipe

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/23/2015 16:10:57



**EMSL Analytical, Inc.**

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO:  
ProjectID:

Attn: (b)(4) Phone: (504) 348-3098  
**Technical Environmental Service, Inc.** Fax: (504) 348-3043  
**PO Box 1601** Received: 07/20/15 9:50 AM  
**Marrero, LA 70073** Collected: 7/17/2015

**Test Report: Lead in Air by Flame AAS (NIOSH 7082)\***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
0010717	251504731-0001	7/17/2015	7/20/2015	886 L	<4.5 µg/m³
	Site: Level 13 North				
0020717	251504731-0002	7/17/2015	7/20/2015	863.85 L	<4.6 µg/m³
	Site: Level 10.5 South				

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/21/2015 10:41:38



**EMSL Analytical, Inc.**

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO:  
ProjectID:

Attn: (b)(4) Phone: (504) 348-3098  
Technical Environmental Service, Inc. Fax: (504) 348-3043  
PO Box 1601 Received: 07/20/15 9:50 AM  
Marrero, LA 70073 Collected: 7/17/2015

**Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
0030717	251504731-0003	7/17/2015	7/21/2015	144 in <sup>2</sup>	18 µg/ft <sup>2</sup>
	Site: Clean Room				
0040717	251504731-0004	7/17/2015	7/21/2015	144 in <sup>2</sup>	20 µg/ft <sup>2</sup>
	Site: Supply Storage				

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft<sup>2</sup> x area sampled in ft<sup>2</sup>. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/21/2015 10:41:38



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO:  
ProjectID:

Attn: (b)(4)

**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 07/22/15 3:10 PM  
Collected:

Project: IH 1150 15262

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
001	251504832-0001 Site: Level 15		7/23/2015	884 L	<4.5 µg/m³
002	251504832-0002 Site: Level 10.5		7/23/2015	874 L	<4.6 µg/m³

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition; unless otherwise noted, "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/23/2015 16:09:24



**EMSL Analytical, Inc.**

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Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

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Attn: (b)(4) Phone: (504) 348-3098  
**Technical Environmental Service, Inc.** Fax: (504) 348-3043  
**PO Box 1601** Received: 07/22/15 3:10 PM  
**Marrero, LA 70073** Collected:  
Project: IH 1150 15262

**Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
003	251504832-0003 Site: Storage Room		7/23/2015	144 in <sup>2</sup>	21 µg/ft <sup>2</sup>
004	251504832-0004 Site: Clean Room		7/23/2015	144 in <sup>2</sup>	17 µg/ft <sup>2</sup>

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/23/2015 16:09:24



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Attn: (b)(4)  
**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 07/29/15 10:50 AM  
Collected: 7/28/2015

Project: IH 1550-15262

### Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
001	251504993-0001	7/28/2015	7/29/2015	980 L	<4.1 µg/m³
Site: Level 10.5 South					
002	251504993-0002	7/28/2015	7/29/2015	982 L	<4.1 µg/m³
Site: Level 14 North					

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/30/2015 09:47:48



# EMSL Analytical, Inc.

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EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO:  
ProjectID:

Attn: (b)(4)  
**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 07/29/15 10:50 AM  
Collected: 7/28/2015

Project: IH 1550-15262

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
003	251504993-0003	7/28/2015	7/30/2015	144 in <sup>2</sup>	38 µg/ft <sup>2</sup>
Site: Clean Room					
004	251504993-0004	7/28/2015	7/30/2015	144 in <sup>2</sup>	44 µg/ft <sup>2</sup>
Site: Storage Area					

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft<sup>2</sup> x area sampled in ft<sup>2</sup>. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "c" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/30/2015 09:47:48



## CERTIFICATE OF ANALYSIS

**Client:** Jacobs Technology  
Bldg 1100; Suite 213G  
Stennis Space Ctr. MS 39529

**Report Date:** 8/18/2015  
**Report Number:** 371367  
**Project:**  
**Project No.:** 6618-2015

### LEAD WIPE SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Area Sampled (ft<sup>2</sup>)</u>	<u>Concentration (µg/ft<sup>2</sup>)</u>
5712763	001	13th Flr Clean Rm Entrance	1.00	30.0
5712764	002	13th Flr Equipment Rm	1.00	25.0
5712765	003	Blank	Blank	<10.0 ug

**Accreditation:**

#### NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

**Analysis Method:** EPA SW846-3050B:7000B "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges And Sediments By AAS"

**Comments:** Regulatory limit varies by surface location (EPA/HUD guidelines). Unless otherwise stated, results assume one square foot sampled. Method requires submittal of blanks. IATL assumes that all of the sampling methods and data upon which these results are based, have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD= 0.2 ppm MDL=4.4 µg/ft<sup>2</sup> RL=10.0 µg/ft<sup>2</sup> (based upon 1.0 square foot sampled). The EPA 403 Final Rule (40 CFR 745.63) requires that all wipe samples of settled dust shall be collected using a wipe that meets ASTM E1792. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

**Date Received:** 8/17/2015

**Date Analyzed:** 8/18/2015

**Analyst:** (b)(4)

**Approved By:**

(b)(4)

(b)(4)



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING  
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# Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

[Redacted]

EMSL Analytical, Inc.  
11931 Industriplex Boulevard,

Baton Rouge, LA 70809  
PHONE: (225) 755-1920  
FAX: (225) 755-1989

Company : Jacobs (Stennis Space Center)		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: Building 1100 Suite 213G		<i>Third Party Billing requires written authorization from third party</i>	
City: Stennis Space Center	State/Province: MS	Zip/Postal Code: 39529	Country: United States
Report To (Name) (b)(4)		Telephone #: (b)(4)	
Email Address: (b)(4)		Fax #:	Purchase Order (b)(4)
Project Name/Number: 6618-2015		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: MS		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options\* - Please Check

3 Hour  
  6 Hour  
  24 Hour  
  48 Hour  
  72 Hour  
  96 Hour  
  1 Week  
  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> <small>*if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater    Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water    Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: (b)(4)      Signature of Sampler:

Sample #	Location	Volume/Area	Date/Time Sampled
001	13th fl clean room entrance	1 square foot 5712763	8/13/2015
002	13th fl equipment room	1 square foot 5712764	8/13/2015
003	blank	- 5712765	8/13/2015

Client Sample #'s: 001, 002, 003      Total # of Samples: 3

Relinquished (Client): (b)(4) (b)(4)      8/14/15      Time: 2:36pm

Received (Lab):      Time:

Comments: DJ 8/18/17

Bill to Deborah Holler Building 1100 Suite 1017C, Stennis Space Center, MS 39529. deborah.a.holler@nasa.gov

RECEIVED  
AUG 17 2015

E-MAILED

Handwritten notes and signatures

## DAILY QUALITY CONTROL DATA

### LEAD SAMPLE ANALYSIS

(DATE: 08 / 18 / 15)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	97
Lab Control Std	1.400	94
Matrix Spike - LBP *	0.31	86
Matrix Spike - Wipe *	0.33	90
Matrix Spike - Soil *	0.299	97
Matrix spike - Air *	0.050	95
2.5 ppm Standard	0.25	97
10.0 ppm Standard	1.0	98
40.0 ppm Standard	4.0	98

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Analysis Method: ASTM D3335-85A  
NIOSH 7082  
EPA SW846 3050B 7000BComments: IATL assumes that all sampling complies with accepted methods.  
All client supplied sampling data is assumed to be correct when calculating results.  
Detection limit based upon 0.2 mg/L reporting limit and sample size.  
\* NIST Traceable.  
\*\* 80-120% acceptable limits.

Analyzed By:

(b)(4)

Date: 8/18/15

Approved By:

(b)(4)

Laboratory Director

**EMSL Analytical, Inc.**

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EMSL Order: (b)(4)  
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Attn: (b)(4)  
**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
 Fax: (504) 348-3043  
 Received: 08/17/15 11:05 AM  
 Collected: 8/14/2015

Project: IH1150-15262

**Test Report: Lead in Air by Flame AAS (NIOSH 7082)\***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
001	251505509-0001 Site: Outside Level 10.5	8/14/2015	8/18/2015	878 L	<4.6 µg/m³
002	251505509-0002 Site: Inside Level 13	8/14/2015	8/18/2015	892 L	<4.5 µg/m³

(b)(4)  
 (b)(4) Laboratory Manager  
 or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.  
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Initial report from 08/18/2015 11:50:58



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EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO:  
ProjectID:

Attn: (b)(4)  
**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 08/17/15 11:05 AM  
Collected: 8/14/2015

Project: IH1150-15262

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
003	251505509-0003	8/14/2015	8/18/2015	144 in <sup>2</sup>	27 µg/ft <sup>2</sup>
Site: Supply Room					
004	251505509-0004	8/14/2015	8/18/2015	144 in <sup>2</sup>	83 µg/ft <sup>2</sup>
Site: Clean Room					

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft<sup>2</sup> x area sampled in ft<sup>2</sup>. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAP unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
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Initial report from 08/18/2015 11:50:58



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Attn: (b)(4) Phone: (504) 348-3098  
**Technical Environmental Service, Inc.** Fax: (504) 348-3043  
**PO Box 1601** Received: 08/19/15 10:15 AM  
**Marrero, LA 70073** Collected: 8/18/2015  
Project: IH 1550-15262

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
001	251505585-0001	8/18/2015	8/20/2015	890 L	<4.5 µg/m³
Site: Level 10 South					
002	251505585-0002	8/18/2015	8/20/2015	890 L	<4.5 µg/m³
Site: Level 12 North					

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m³ x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 08/20/2015 12:27:41



# EMSL Analytical, Inc.

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Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

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Attn: (b)(4)

**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 08/19/15 10:15 AM  
Collected: 8/18/2015

Project: IH 1550-15262

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
003	251505585-0003	8/18/2015	8/20/2015	144 in <sup>2</sup>	70 µg/ft <sup>2</sup>
Site: Clean Room					
004	251505585-0004	8/18/2015	8/20/2015	144 in <sup>2</sup>	26 µg/ft <sup>2</sup>
Site: Storage Room					

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft<sup>2</sup> x area sampled in ft<sup>2</sup>. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 08/20/2015 12:27:41

## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Jacobs Technology	<b>Report Date:</b>	8/27/2015
	Bldg 1100; Suite 213G	<b>Report Number:</b>	372351
	Stennis Space Ctr. MS 39529	<b>Project:</b>	B2 Surveillance
		<b>Project No.:</b>	6618-2015

### LEAD WIPE SAMPLE ANALYSIS SUMMARY

Lab No.	Client No.	Location / Description	Area Sampled (ft <sup>2</sup> )	Concentration (µg/ft <sup>2</sup> )
5722452	001	9th Flr Outside South (b4 Cleaning)	1.00	1400.0
5722453	002	9th Flr Outside South (b4 Cleaning)	1.00	1500.0
5722454A	003	Lead Wipe	NA	810 ug
5722454B	003	Lead Wipe	NA	50 ug
5722454C	003	Lead Wipe	NA	110 ug
5722454D	003	Lead Wipe	NA	170 ug
5722454E	003	Lead Wipe	NA	660 ug
5722454F	003	Lead Wipe	NA	200 ug
5722455	004	9th Flr Outside South (Cleaned)	1.00	400.0
5722456	005	Blank	Blank	<10.0 ug

**Accreditation:** NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)  
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

**Analysis Method:** EPA SW846-3050B:7000B "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges And Sediments By AAS"

**Comments:** Regulatory limit varies by surface location (EPA/HUD guidelines). Unless otherwise stated, results assume one square foot sampled. Method requires submittal of blanks. IATL assumes that all of the sampling methods and data upon which these results are based, have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD= 0.2 ppm MDL=4.4 µg/ft<sup>2</sup> RL=10.0 µg/ft<sup>2</sup> (based upon 1.0 square foot sampled). The EPA 403 Final Rule (40 CFR 745.63) requires that all wipe samples of settled dust shall be collected using a wipe that meets ASTM E1792. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

**Date Received:** 8/26/2015  
**Date Analyzed:** 8/27/2015  
**Analyst:** (b)(4)

**Approved By:**

(b)(4)  
(b)(4)  
Laboratory Director





9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054  
 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

## Chain of Custody

– Environmental Lead –

<u>Contact Information</u>	
<b>Client Company:</b> Jacobs (Stennis Space Center)	<b>Project Number:</b> 6618-2015
<b>Office Address:</b> Building 1100, Suite 213G	<b>Project Name:</b> B2 Surveillance
<b>City, State, Zip:</b> Stennis Space Center, MS 39529	<b>Primary Contact:</b> (b)(4)
<b>Fax Number:</b> 228-688-6456	<b>Office Phone:</b> (b)(4)
<b>Email Address:</b> (b)(4)	<b>Cell Phone:</b> (b)(4)

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

**Matrix/Method:**

- Paint by AAS: ASTM D3335-85a, 2009
- Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
- Air by AAS: NIOSH 7082, 1994
- Soil by AAS: EPA SW 846 (Soil)
- Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010
- Other Metals (Cd, Zn, Cr) by AAS
- Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311
- Other \_\_\_\_\_

**Special Instructions:**  
 Please list total lead concentration of the samples. Sample 003 consists of bulk material collected from the inside of a box. Please analyzed the material on the tape and the wipe samples together as one sample. PO (b)(4)

**Turnaround Time**

Preliminary Results Requested Date: \_\_\_\_\_

Specific date / time

10 Day  
  5 Day  
  3 Day  
  2 Day  
 1 Day\*  
 12 Hour\*\*  
 6 Hour\*\*  
 RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

Verbal    Email    Fax

**Chain of Custody**

Relinquished (Name/Organizational): (b)(4)	Date: 8/25/15 Time: _____
Received (Name / iATL): (b)(4)	Date: _____ Time: _____
Sample Login (Name / iATL): (b)(4)	Date: 8/26/15 Time: _____
Analysis(Name(s) / iATL): (b)(4)	Date: _____ Time: _____
QA/QC Review (Name / iATL): (b)(4)	Date: _____ Time: _____
Archived / Released: _____ QA/QC InterLAB Use: _____	Date: _____ Time: _____

RECEIVED

# Sample Log

## -Environmental Lead-

Client: Jacobs (Stennis Space Center) Project: 6618-2015

Sampling Date/Time: 08/20/2015 - 08/21/2015

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
001	5722452	9th Floor outside south (b4 cleaning)				1 sq ft	
002	5722453	9th Floor outside south (b4 cleaning)				1 sq ft	
003	5722454 <sup>A-F</sup>	8th floor tool box material				80 sq inches	
004	5722455	9th Floor outside south (cleaned)				1 sq ft	
005	5722456	blank				N/A	

\* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)  
 \*\* = Insufficient Sample Provided to Analyze (<50mg) \*\*\* = Matrix / Substrate Interference Possible  
 FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.  
 These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.



# DAILY QUALITY CONTROL DATA

## LEAD SAMPLE ANALYSIS

(DATE: 08/27/15)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	100
Lab Control Std	1.510	98
Matrix Spike - LBP *	0.26	112
Matrix Spike - Wipe *	0.26	97
Matrix Spike - Soil *	0.365	97
Matrix spike - Air *	0.050	102
2.5 ppm Standard	0.25	100
10.0 ppm Standard	1.0	99
40.0 ppm Standard	4.0	97

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Analysis Method: ASTM D3335-85A  
NIOSH 7082  
EPA SW846 3050B 7000B

Comments: IATL assumes that all sampling complies with accepted methods.  
All client supplied sampling data is assumed to be correct when calculating results.  
Detection limit based upon 0.2 mg/L reporting limit and sample size.  
\* NIST Traceable.  
\*\* 80-120% acceptable limits.

Analyzed By:

(b)(4)

Approved By:

(b)(4)

Date:

8/27/15

Laboratory Director



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
Phone/Fax: (225) 755-1920 / (225) 755-1989  
<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO:  
ProjectID:

Attn: (b)(4)  
**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 08/28/15 9:50 AM  
Collected: 8/27/2015

Project: IH 1550-15262

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

Client Sample Description	Lab ID	Collected	Analyzed	Volume	Lead Concentration
001	251505811-0001	8/27/2015	8/28/2015	880 L	<4.5 µg/m³
	Site: Level 10 S				
002	251505811-0002	8/27/2015	8/28/2015	880 L	<4.5 µg/m³
	Site: Level 11 N				

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 08/31/2015 10:50:09



# EMSL Analytical, Inc.

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<http://www.EMSL.com> [batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO:  
ProjectID:

Attn: (b)(4)  
**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 08/28/15 9:50 AM  
Collected: 8/27/2015

Project: IH 1550-15262

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
003	251505811-0003 Site: Clean Room	8/27/2015	8/31/2015	n/a	20 µg/wipe
004	251505811-0004 Site: Supply Room	8/27/2015	8/31/2015	n/a	22 µg/wipe

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft<sup>2</sup> x area sampled in ft<sup>2</sup>. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 08/31/2015 10:50:09



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809

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<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	TECH55
CustomerPO:	
ProjectID:	

Attn: (b)(4)

**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 09/03/15 11:15 AM  
Collected: 9/1/2015

Project: IH 1550-15262

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
001 Site: Level 10 South Outside	251506005-0001	9/1/2015	9/4/2015	1200 L	<3.3 µg/m <sup>3</sup>
002 Site: Level 11 North Inside	251506005-0002	9/1/2015	9/4/2015	1200 L	<3.3 µg/m <sup>3</sup>
005 Site: Level 11 East Outside	251506005-0003	9/1/2015	9/4/2015	1200 L	<3.3 µg/m <sup>3</sup>

(b)(4)

(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m<sup>3</sup> x volume sampled (m<sup>3</sup>). OSHA PEL - 50 µg/m<sup>3</sup>. OSHA action level - 30 µg/m<sup>3</sup>. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 09/04/2015 10:37:44



# EMSL Analytical, Inc.

11931 Industriplex, Suite 100, Baton Rouge, LA 70809  
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EMSL Order: (b)(4)  
CustomerID: TECH55  
CustomerPO:  
ProjectID:

Attn: (b)(4)

**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 09/03/15 11:15 AM  
Collected: 9/1/2015

Project: IH 1550-15262

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
003	251506005-0004	9/1/2015	9/3/2015	144 in <sup>2</sup>	27 µg/ft <sup>2</sup>
Site: Storage Room Floor					
004	251506005-0005	9/1/2015	9/3/2015	144 in <sup>2</sup>	24 µg/ft <sup>2</sup>
Site: Outside Clean Room Floor					

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 09/04/2015 10:37:44



**Lead (Pb) Chain of Custody**  
EMSL Order ID (Lab Use Only):

6005

Baton Rouge, LA 70809  
PHONE: (225) 755-1920  
FAX: (225) 755-1989

EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

Company: TES		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>	
Street: 5133 Taravella Road		Third Party Billing requires written authorization from third party	
City: Marrero	State/Province: LA	Zip/Postal Code: 70072	Country: United States
Report To (Name): (b)(4)		Telephone #: 5043483098	
Email Address: (b)(4)		Fax #:	Purchase Order:
Project Name/Number: IH 1550-15262		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: LA		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
<b>Turnaround Time (TAT) Options* - Please Check</b>			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input checked="" type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>			
<b>Matrix</b>	<b>Method</b>	<b>Instrument</b>	<b>Reporting Limit</b>
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter
Wipe* <small>ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *If no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe
	SW846-6010B or C	ICP-AES	1.0 µg/wipe
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter
Other:			
Name of Sampler:		Signature of Sampler:	
Sample #	Location	Volume/Area	Date/Time Sampled
001	Level 10 South outside	1200 L	9/1/15
002	Level 11 North inside	1200 L	9/1/15
003	Storage Room Floor	1 ft <sup>2</sup>	9/1/15 1107
004	Outside Clean Room Floor	1 ft <sup>2</sup>	9/1/15 1105
005	Level 11 east outside	1200 L	9/1/15
Client Sample #'s		Total # of Samples:	
Relinquished (Client):	(b)(4)	9/1/15	Time:
Received (Lab):	(b)(4)	9/03/15	Time: 11:15 am
Comments:			

UPS





# EMSL Analytical, Inc.

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EMSL Order:	(b)(4)
CustomerID:	TECH55
CustomerPO:	
ProjectID:	

Attn: (b)(4)  
**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
 Fax: (504) 348-3043  
 Received: 09/04/15 9:55 AM  
 Collected: 9/3/2015

Project: IH 1550-15262

## Test Report: Lead in Air by Flame AAS (NIOSH 7082)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
SSC090315-01 Site: 11th floor S outside exhaust of neg air	251506035-0001	9/3/2015	9/8/2015	690 L	<5.8 µg/m <sup>3</sup>
SSC090315-02 Site: Inside softcore blasting level	251506035-0002	9/3/2015	9/8/2015	690 L	<5.8 µg/m <sup>3</sup>
SSC090315-03 Site: N side blasting level	251506035-0003	9/3/2015	9/8/2015	690 L	<5.8 µg/m <sup>3</sup>

(b)(4)  
 (b)(4) Laboratory Manager  
 or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m<sup>3</sup> x volume sampled (m<sup>3</sup>). OSHA PEL - 50 µg/m<sup>3</sup>. OSHA action level - 30 µg/m<sup>3</sup>. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.  
 Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 09/08/2015 10:58:06



# EMSL Analytical, Inc.

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<http://www.EMSL.com>

[batonrougelab@emsl.com](mailto:batonrougelab@emsl.com)

EMSL Order:	(b)(4)
CustomerID:	TECH55
CustomerPO:	
ProjectID:	

Attn: (b)(4)

**Technical Environmental Service, Inc.**  
**PO Box 1601**  
**Marrero, LA 70073**

Phone: (504) 348-3098  
Fax: (504) 348-3043  
Received: 09/04/15 9:55 AM  
Collected: 9/3/2015

Project: IH 1550-15262

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
SSC090315-04 Site: Storage room floor	251506035-0004	9/3/2015	9/8/2015	144 in <sup>2</sup>	26 µg/ft <sup>2</sup>
SSC090315-05 Site: Outside clean room floor	251506035-0005	9/3/2015	9/8/2015	144 in <sup>2</sup>	15 µg/ft <sup>2</sup>
SSC090315-06 Site: 12th floor neg air intake	251506035-0006	9/3/2015	9/8/2015	144 in <sup>2</sup>	330 µg/ft <sup>2</sup>
SSC090315-07 Site: 12th floor S side beam	251506035-0007	9/3/2015	9/8/2015	144 in <sup>2</sup>	180 µg/ft <sup>2</sup>
SSC090315-08 Site: 12th floor in front of contractor storage entrance	251506035-0008	9/3/2015	9/8/2015	144 in <sup>2</sup>	210 µg/ft <sup>2</sup>

(b)(4)  
(b)(4) Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 09/08/2015 10:58:06



# ANALYTICAL REQUEST FORM

1508344

REGULAR Status

RUSH Status Required - ADDITIONAL CHARGE

RESULTS REQUIRED BY \_\_\_\_\_

DATE \_\_\_\_\_

CONTACT ALS LABORATORY GROUP PRIOR TO SENDING SAMPLES

Date 8/7/15 Purchase Order No. 296168

Company Name JACOBS TECHNOLOGY

Address BUILDING 1100 SUITE 213

STENNIS SPACE CENTER MS 39529

Person to Contact (b)(4)

Email Address (b)(4)

Telephone (b)(4)

Fax Telephone (228) 688-6456

Billing Address (if different)

(b)(4)

BUILDING 1100, ROOM 1017C

STENNIS, SPACE CENTER, MS 39529

Quote No. 5017

Sampling Site STENNIS SPACE CENTER

Date/Time of Collection 8/7/15

Laboratory Use Only	Client Sample Number	Media Type	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
01	001	MCE	768.8	NIOSH 7300 MOD. LEAD, CADMIUM, CHROMIUM
02	002	↓	753.7	↓
03	003	↓	N/A	

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

**CHAIN OF CUSTODY**

Relinquished by: (Signature) <u>(b)(4)</u>	Date / Time <u>8/10/15</u>	Relinquished by: (Signature) <u>(b)(4)</u>	Date / Time <u>8/12/15 9:26</u>
Relinquished by: (Signature) <u>(b)(4)</u>	Date / Time _____	Relinquished by: (Signature) _____	Date / Time _____

ALS ENVIRONMENTAL 4388 Glendale Milford Road / Cincinnati, OH

- DELIVERY METHOD:  STD / PRTY MAIL  UPS  CLIENT DROP BOX  FEDEX  ALS COURIER  OTHER: \_\_\_\_\_
- COOLING METHOD:  NONE  COOLER  WET ICE  ICE PACK
- CUSTODY SEALS:  NONE  COOLER PACKAGE  SAMPLES
- COOLER TEMP: \_\_\_\_\_ °C



14-Aug-2015

(b)(4)

Jacobs Technology, Inc.  
Building 1100  
Suite 213G  
Stennis Space Center, MS 39529

Tel: (b)(4)  
Fax: (228) 688-6456

Re: Stennis Space Center

Work Order: (b)(4)

Dear (b)(4)

ALS Environmental received 3 samples on 12-Aug-2015 09:26 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 7.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

(b)(4)

Electronically approved by: (b)(4)

(b)(4)

Project Manager

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**Client:** Jacobs Technology, Inc.  
**Project:** Stennis Space Center  
**Work Order:** (b)(4)

**Work Order Sample Summary**

---

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1508344-01	001	Air		8/7/2015	8/12/2015 09:26	<input type="checkbox"/>
1508344-02	002	Air		8/7/2015	8/12/2015 09:26	<input type="checkbox"/>
1508344-03	003	Air		8/7/2015	8/12/2015 09:26	<input type="checkbox"/>

## ALS Environmental

Date: 14-Aug-15

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**Client:** Jacobs Technology, Inc.

**Project:** Stennis Space Center

**Work Order:** (b)(4)

## Case Narrative

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The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

**Client:** Jacobs Technology, Inc.  
**Project:** Stennis Space Center

**Work Order:** (b)(4)

**Analytical Results**

**Lab ID:** 1508344-01A  
**Client Sample ID:** 001

**Collection Date:** 8/7/2015  
**Matrix:** AIR

**Analyses**

<b>METALS BY NIOSH 7300 MOD.</b>		Method: <b>N7300</b>	Air Volume (L): <b>768.8</b>	Analyst: <b>VAW</b>
Date Analyzed: 8/13/2015 13:06		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Cadmium	ND	0.10	<0.00013	
Chromium	ND	1.0	<0.0013	
Lead	ND	1.0	<0.0013	

**Lab ID:** 1508344-02A  
**Client Sample ID:** 002

**Collection Date:** 8/7/2015  
**Matrix:** AIR

**Analyses**

<b>METALS BY NIOSH 7300 MOD.</b>		Method: <b>N7300</b>	Air Volume (L): <b>753.7</b>	Analyst: <b>VAW</b>
Date Analyzed: 8/13/2015 13:09		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Cadmium	ND	0.10	<0.00013	
Chromium	ND	1.0	<0.0013	
Lead	ND	1.0	<0.0013	

**Lab ID:** 1508344-03A  
**Client Sample ID:** 003

**Collection Date:** 8/7/2015  
**Matrix:** AIR

**Analyses**

<b>METALS BY NIOSH 7300 MOD.</b>		Method: <b>N7300</b>	Air Volume (L): <b>0</b>	Analyst: <b>VAW</b>
Date Analyzed: 8/13/2015 13:13		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Cadmium	ND	0.10	NA	
Chromium	ND	1.0	NA	
Lead	ND	1.0	NA	

**Note:**

Client: Jacobs Technology, Inc.  
 Work Order: (b)(4)  
 Project: Stennis Space Center

**QC BATCH REPORT**

Batch ID: 29951 Instrument ID: ICP1 Method: N7300

MBLK		Sample ID: mblk-29951-29951			Units: µg/sample		Analysis Date: 8/13/2015 11:50 AM			
Client ID:		Run ID: ICP1_150813B			SeqNo: 1110778		Prep Date: 8/12/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	ND	0.10								
Chromium	ND	1.0								
Lead	ND	1.0								

LCS		Sample ID: lcs-29951-29951			Units: µg/sample		Analysis Date: 8/13/2015 11:53 AM			
Client ID:		Run ID: ICP1_150813B			SeqNo: 1110779		Prep Date: 8/12/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	20.46	0.10	20	0	102	80-120	0			
Chromium	19.35	1.0	20	0	96.8	80-120	0			
Lead	20.48	1.0	20	0	102	80-120	0			

LCSD		Sample ID: lcsd-29951-29951			Units: µg/sample		Analysis Date: 8/13/2015 11:56 AM			
Client ID:		Run ID: ICP1_150813B			SeqNo: 1110780		Prep Date: 8/12/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	20.24	0.10	20	0	101	80-120	20.46	1.08	20	
Chromium	19.22	1.0	20	0	96.1	80-120	19.35	0.684	20	
Lead	20.18	1.0	20	0	101	80-120	20.48	1.48	20	

The following samples were analyzed in this batch: 1508344-01a 1508344-02a 1508344-03a

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Jacobs Technology, Inc.  
**Project:** Stennis Space Center  
**WorkOrder:** (b)(4)

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
μg/sample	

Sample Receipt Checklist

Client Name: **JACOBS-MISSISSIPPI**

Date/Time Received: **12-Aug-15 09:26**

Work Order: **(b)(4)**

Received by: **SEG**

Checklist completed by: **(b)(4)** 12-Aug-15  
eSignature Date

Reviewed by: **(b)(4)** 14-Aug-15  
eSignature Date

Matrices:

Carrier name: FedEx

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance? Yes  No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:

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Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

Data as of August 18th, 2015
Total Samples Taken - 549
Approximate Number of Samples Planned - 430
Total Samples Above Limits - 62

LEGEND	
**	Below Detection Limits for Sampling and Analytical Equipment
	Not Applicable
	Compliant with Requirements
	Above Regulatory Requirements

Location	Requirement		Initial Assessment			Verification				
	OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
				Air	Wipe			Air	Wipe	
Basement by power room	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
Basement - North of Stairwell	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				
West Pier Stairwell		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	640 µg/ft2	Resampled on 2/22/2015 and 2/24/2015	Wipe	380 µg/ft2	
West Pier Badge Area Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	640 µg/ft2	Resampled on 2/22/2015 and 2/24/2015	Wipe	150 µg/ft2	
West Pier Badge Area Table		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	37 µg/ft2				
Basement N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	320 µg/ft2				
Basement Coke Machine		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	15 µg/ft2				
Basement Air Compressor Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	380 µg/ft2				
Basement, South floor		400 µg/ft2, clearance for occupancy					2/17/2015	Wipe	66 µg/ft2	
Basement, West Floor		400 µg/ft2, clearance for occupancy					2/17/2015	Wipe	120 µg/ft2	
Basement, North Floor		400 µg/ft2, clearance for occupancy					2/17/2015	Wipe	52 µg/ft2	
Basement, East Floor		400 µg/ft2, clearance for occupancy					2/17/2015	Wipe	140 µg/ft2	
West Pier, Top of Steps	30 µg/m3; 50 µg/m3						2/18/2015	8-hr Air	**	
Basement at Air Compressor	30 µg/m3; 50 µg/m3						2/18/2015	8-hr Air	**	
Basement Mezzanine S Wall		400 µg/ft2, clearance for occupancy					2/18/2015	Wipe	13 µg/ft2	
Basement Mezzanine W Wall		400 µg/ft2, clearance for occupancy					2/18/2015	Wipe	**	
Basement Mezzanine N Wall		400 µg/ft2, clearance for occupancy					2/18/2015	Wipe	**	
Basement Mezzanine E Wall		400 µg/ft2, clearance for occupancy					2/18/2015	Wipe	**	
West Pier Stairway to Mezzanine		400 µg/ft2, clearance for occupancy					2/22/2015	Wipe	**	
West Pier Stairway to Mezzanine		400 µg/ft2, clearance for occupancy					2/22/2015; Resampled on 2/24/2015	Wipe	1200 µg/ft2; Resample result 10 µg/ft2	
West Pier Stairway to Mezzanine		400 µg/ft2, clearance for occupancy					2/22/2015	Wipe	**	
West Pier Stairway to Mezzanine		400 µg/ft2, clearance for occupancy					2/22/2015	Wipe	77 µg/ft2	
West side of Mezzanine by Compressor		400 µg/ft2, clearance for occupancy					2/22/2015	Wipe	120 µg/ft2	
West side of Mezzanine by Compressor		400 µg/ft2, clearance for occupancy					2/22/2015	Wipe	110 µg/ft2	
West side of Mezzanine by Compressor		400 µg/ft2, clearance for occupancy					2/22/2015	Wipe	18 µg/ft2	
West side of Mezzanine by Compressor		400 µg/ft2, clearance for occupancy					2/22/2015	Wipe	350 µg/ft2	

See Verification Sample

BASEMENT)

<b>Data as of August 18th, 2015</b>
<b>Total Samples Taken - 549</b>
<b>Approximate Number of Samples Planned - 430</b>
<b>Total Samples Above Limits - 62</b>

<b>LEGEND</b>	
**	Below Detection Limits for Sampling and Analytical Equipment
	Not Applicable
	Compliant with Requirements
	Above Regulatory Requirements

	Location	Requirement		Initial Assessment			Verification				
		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
WEST PIER ENTRANCE AND MEZZANINE (0	West side of Mezzanine by Compressor		400 µg/ft2, clearance for occupancy				2/22/2015		Wipe	22 µg/ft2	
	West side of Mezzanine by Compressor		400 µg/ft2, clearance for occupancy				2/22/2015		Wipe	38 µg/ft2	
	West side of Mezzanine by Compressor		400 µg/ft2, clearance for occupancy				2/22/2015		Wipe	48 µg/ft2	
	Mezzanine Hallway		400 µg/ft2, clearance for occupancy				2/22/2015		Wipe	22 µg/ft2	
	Mezzanine Hallway		400 µg/ft2, clearance for occupancy				2/22/2015		Wipe	**	
	Mezzanine Hallway		400 µg/ft2, clearance for occupancy				2/22/2015		Wipe	36 µg/ft2	
	Mezzanine Hallway		400 µg/ft2, clearance for occupancy				2/22/2015		Wipe	110 µg/ft2	
	Mezzanine Hallway		400 µg/ft2, clearance for occupancy				2/22/2015		Wipe	120 µg/ft2	
	Mezzanine Hallway		400 µg/ft2, clearance for occupancy				2/22/2015		Wipe	32 µg/ft2	
	North Side of Mezzanine		400 µg/ft2, clearance for occupancy				2/22/2015		Wipe	29 µg/ft2	
	North Side of Mezzanine		400 µg/ft2, clearance for occupancy				2/22/2015		Wipe	92 µg/ft2	
	North Side of Mezzanine		400 µg/ft2, clearance for occupancy				2/22/2015		Wipe	34 µg/ft2	
	North Side of Mezzanine		400 µg/ft2, clearance for occupancy				2/22/2015		Wipe	320 µg/ft2	
	North Side of Mezzanine		400 µg/ft2, clearance for occupancy	2/22/2015		Wipe	800 µg/ft2	Resampled on 2/24/2015		Wipe	150 µg/ft2
	North Side of Mezzanine		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>				2/22/2015		Wipe	49 µg/ft2
	North Side of Mezzanine		400 µg/ft2, clearance for occupancy	2/22/2015		Wipe	880 µg/ft2	Resampled on 2/24/2015		Wipe	290 µg/ft2
	North Side of Mezzanine		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	71 µg/ft2
	WEST Pier - Badge Board	30 µg/m3; 50 µg/m3						2/19/2015	8hr-air		**
	WEST Pier - Top of Stairs	30 µg/m3; 50 µg/m3						2/19/2015	8 hr Air		**
	West Pier Entrance		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	**
	West Pier Entrance		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	170 µg/ft2
	West Pier Entrance		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	**
	West Pier Entrance		400 µg/ft2, clearance for occupancy					2/22/2015; Resampled on 2/24/2015		Wipe	540 µg/ft2; Resample result 10 µg/ft2
West entrance door		400 µg/ft2, clearance for occupancy					2/24/2015		Wipe	10 µg/ft2	
West Air Condition Unit		400 µg/ft2, clearance for occupancy					2/24/2015		Wipe	11 µg/ft2	
West electrical panel		400 µg/ft2, clearance for occupancy					2/24/2015		Wipe	**	

<b>Data as of August 18th, 2015</b>
<b>Total Samples Taken - 549</b>
<b>Approximate Number of Samples Planned - 430</b>
<b>Total Samples Above Limits - 62</b>

<b>LEGEND</b>	
**	<b>Below Detection Limits for Sampling and Analytical Equipment</b>
	<b>Not Applicable</b>
	<b>Compliant with Requirements</b>
	<b>Above Regulatory Requirements</b>

Location	Requirement		Initial Assessment			Verification				
	OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
				Air	Wipe			Air	Wipe	
West pier floor		400 µg/ft2, clearance for occupancy					2/24/2015		Wipe	380 µg/ft2
West Stairway wall		400 µg/ft2, clearance for occupancy					2/24/2015		Wipe	12 µg/ft2
West Stairway floor		400 µg/ft2, clearance for occupancy					2/24/2015		Wipe	150 µg/ft2
North Mezzanine Floor #1		400 µg/ft2, clearance for occupancy					2/24/2015		Wipe	150 µg/ft2
North Mezzanine Floor #2		400 µg/ft2, clearance for occupancy					2/24/2015		Wipe	290 µg/ft2

<b>WEST PIER AND EAST MEZZANINE (BASEMENT)</b>	East Side (58)	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	EAST PIER ROOM Work Table		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	60 µg/ft2			Wipe	
	EAST PIER ROOM Microwave		40 µg/ft2, clearance for consumption area	2/13/2015		Wipe	680 µg/ft2 (Recleaning)			Wipe	
	EAST PIER ROOM Storage Cabinet		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	25 µg/ft2				
	EAST PIER ROOM South Stair Landing		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	5900 µg/ft2 (Recleaning)			Wipe	
	EAST PIER ROOM North Stair Landing		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	3500 µg/ft2 (Recleaning)			Wipe	
	East Pier		400 µg/ft2, clearance for occupancy						2/22/2015	Wipe	180 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy						2/22/2015	Wipe	27 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy						2/22/2015	Wipe	21 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy						2/22/2015	Wipe	40 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy						2/22/2015	Wipe	48 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy						2/22/2015	Wipe	52 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy						2/22/2015	Wipe	120 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy						2/22/2015	Wipe	270 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy						2/22/2015	Wipe	94 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy						2/22/2015	Wipe	150 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy						2/22/2015	Wipe	250 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy						2/22/2015	Wipe	180 µg/ft2
	Break Room floor Near Entrance		400 µg/ft2, clearance for occupancy						3/5/2015	Wipe	69 µg/ft2
	Break Room Near Refrigerator		400 µg/ft2, clearance for occupancy						3/5/2015	Wipe	120 µg/ft2

**See Verification Sample**

<b>Data as of August 18th, 2015</b>
<b>Total Samples Taken - 549</b>
<b>Approximate Number of Samples Planned - 430</b>
<b>Total Samples Above Limits - 62</b>

<b>LEGEND</b>	
**	Below Detection Limits for Sampling and Analytical Equipment
	Not Applicable
	Compliant with Requirements
	Above Regulatory Requirements

	Location	Requirement		Initial Assessment			Verification				
		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
EA	On Desk Office 1, North Office		400 µg/ft2, clearance for occupancy					3/5/2015		Wipe	**
	Floor Entrance Office 1, North Office		400 µg/ft2, clearance for occupancy					3/5/2015		Wipe	25 µg/ft2
	On Desk Office 2, Middle Office		400 µg/ft2, clearance for occupancy					3/5/2015		Wipe	25 µg/ft2
	Floor Entrance Office 2, Middle Office		400 µg/ft2, clearance for occupancy					3/5/2015		Wipe	120 µg/ft2
	On Desk Office 3, South Office		400 µg/ft2, clearance for occupancy					3/5/2015		Wipe	10 µg/ft2
	Floor Entrance Office 3, South Office		400 µg/ft2, clearance for occupancy					3/5/2015		Wipe	150 µg/ft2
	Cable Tray		400 µg/ft2, clearance for occupancy					3/5/2015		Wipe	300 µg/ft2
	Mezzanine Break Room Table		40 µg/ft2, clearance for consumption area					3/13/2015		Wipe	10 µg/ft2
	Mezzanine Break Room Microwave Table		40 µg/ft2, clearance for consumption area					3/13/2015		Wipe	35 µg/ft2
	Mezzanine Entrance Break Room Floor		400 µg/ft2, clearance for occupancy					3/13/2015; Resampled on 4/15/16		Wipe	420 µg/ft2; Resampled result 79 µg/ft2
	Mezzanine Southeast Break Room Floor		400 µg/ft2, clearance for occupancy					3/13/2015; Resampled on 4/15/16		Wipe	240 µg/ft2; Resampled result 150 µg/ft2
	LEVEL 0.5	Basement mid-rail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	43 µg/ft2			
Basement & LVL 1, Landing			400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	110 µg/ft2				
Basement, Elevator/stairs		30 µg/m3; 50 µg/m3						2/18/2015	8-hr Air		**
Basement & LVL 1, Landing			400 µg/ft2, clearance for occupancy					2/19/2015		Wipe	17 µg/ft2
LEVEL 1	LVL 1, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**			Wipe	
	LVL 1 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	110 µg/ft2			Wipe	
	LVL 1 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	74 µg/ft2			Wipe	
	LVL 1 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	130 µg/ft2			Wipe	
	LVL 1 N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	55 µg/ft2			Wipe	
	LVL 1 Mail table		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	58 µg/ft2			Wipe	
	LVL 1 Personnel Wall		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	37 µg/ft2			Wipe	
	LVL 1 Personnel Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	220 µg/ft2			Wipe	
	LVL 1 S Floor		400 µg/ft2, clearance for					2/17/2015		Wipe	41 µg/ft2
	LVL 1 W Floor		400 µg/ft2, clearance for					2/17/2015		Wipe	120 µg/ft2
	LVL 1 N Floor		400 µg/ft2, clearance for					2/17/2015		Wipe	63 µg/ft2
	LVL 1 E Floor		400 µg/ft2, clearance for					2/17/2015		Wipe	58 µg/ft2

<b>Data as of August 18th, 2015</b>
<b>Total Samples Taken - 549</b>
<b>Approximate Number of Samples Planned - 430</b>
<b>Total Samples Above Limits - 62</b>

<b>LEGEND</b>	
**	Below Detection Limits for Sampling and Analytical Equipment
	Not Applicable
	Compliant with Requirements
	Above Regulatory Requirements

Location	Requirement		Initial Assessment				Verification			
	OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
				Air	Wipe			Air	Wipe	
LVL 1 Hand Rail		400 µg/ft2, clearance for	<b>See Verification Sample</b>				2/17/2015		Wipe	**
LVL 1 S Wall		400 µg/ft2, clearance for					2/18/2015		Wipe	21 µg/ft2
LVL 1 W Wall		400 µg/ft2, clearance for					2/18/2015		Wipe	**
LVL 1 N Wall		400 µg/ft2, clearance for					2/18/2015		Wipe	20 µg/ft2
LVL 1 E Wall		400 µg/ft2, clearance for					2/18/2015		Wipe	**
LVL 1 Floor	30 µg/m3; 50 µg/m3						2/19/2015		8-hr Air	**
LVL 1 to LVL 2 Landing		occupancy					2/19/2015		Wipe	17 µg/ft2

<b>LEVEL 2</b>	LVL 2, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**				
	LVL 2 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	93 µg/ft2				
	LVL 2 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	59 µg/ft2				
	LVL 2 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	130 µg/ft2	Resampled on 2/17/2015 and 2/22/2015		42 µg/ft2	
	LVL 2N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	76 µg/ft2				
	LVL 2 S Floor		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>				2/17/2015		Wipe	52 µg/ft2
	LVL 2 W Floor		400 µg/ft2, clearance for occupancy					2/17/2015; Resampled on 2/22/2015		Wipe	550 µg/ft2; Resample result 42 µg/ft2
	LVL 2 N Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	320 µg/ft2
	LVL 2 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	150 µg/ft2
	LVL 2 Hand Rail		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	**
	LVL 2 S Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 2 W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	10 µg/ft2
	LVL 2 N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 2 E Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 2 Floor	30 µg/m3; 50 µg/m3						2/19/2015		8-hr Air	**
	LVL 2 to LVL 3 Landing		400 µg/ft2, clearance for occupancy					2/19/2015		Wipe	29 µg/ft2
	Level 2 Floor		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	42 µg/ft2

LVL 3 Breakroom by sink	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**			
LVL 3 Breakroom coke machine	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**			
LVL 3 Break room by Sink	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**			
LVL 3 Break room by Coke machine	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**			
LVL 3 - Outside Break Room in foyer	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**			
LVL 3 Break room Floor @ door		40 µg/ft2, clearance for consumption area	2/13/2015		Wipe	**			

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<b>Approximate Number of Samples Planned - 430</b>
<b>Total Samples Above Limits - 62</b>

<b>LEGEND</b>	
**	<b>Below Detection Limits for Sampling and Analytical Equipment</b>
	<b>Not Applicable</b>
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	<b>Above Regulatory Requirements</b>

	Location	Requirement		Initial Assessment			Verification								
		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result				
					Air	Wipe			Air	Wipe					
<b>LEVEL 3</b>	LVL 3 Break room Table		40 µg/ft2, clearance for consumption area	2/13/2015		Wipe	**								
	LVL 3, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**								
	LVL 3 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	77 µg/ft2								
	LVL 3 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	30 µg/ft2								
	LVL 3 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	47 µg/ft2								
	LVL 3 N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	75 µg/ft2								
	LVL 3 S Floor		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>				2/17/2015		Wipe	60 µg/ft2				
	LVL 3 W Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	94 µg/ft2				
	LVL 3 N Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	32 µg/ft2				
	LVL 3 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	45 µg/ft2				
	LVL 3 Hand Rail		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	**				
	LVL 3 S Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**				
	LVL 3 W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**				
	LVL 3 N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**				
	LVL 3 E Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**				
	LVL 3 Floor	30 µg/m3; 50 µg/m3						2/19/2015		8-hr Air	**				
LVL 3 to LVL 4 Landing		400 µg/ft2, clearance for occupancy	2/19/2015						Wipe	75 µg/ft2					
<b>LEVEL 4</b>	LVL 4, mid-rail		400 µg/ft2, clearance for occupancy					2/13/2015		Wipe	140 µg/ft2				
	LVL 4 E Floor		400 µg/ft2, clearance for occupancy					2/14/2015		Wipe	55 µg/ft2				
	LVL 4 S Floor		400 µg/ft2, clearance for occupancy					2/14/2015		Wipe	65 µg/ft2				
	LVL 4 W Floor		400 µg/ft2, clearance for occupancy					2/14/2015		Wipe	98 µg/ft2				
	LVL 4 N Floor		400 µg/ft2, clearance for occupancy					2/14/2015		Wipe	95 µg/ft2				
	LVL 4 S Floor		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>				2/17/2015		Wipe	54 µg/ft2				
	LVL 4 W Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	80 µg/ft2				
	LVL 4 N Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	100 µg/ft2				
	LVL 4 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	52 µg/ft2				



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	Location	Requirement		Initial Assessment			Verification				
		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
	LVL 4 Hand Rail		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>			2/17/2015		Wipe	**	
	LVL 4 S Wall		400 µg/ft2, clearance for occupancy				2/18/2015		Wipe	**	
	LVL 4 W Wall		400 µg/ft2, clearance for occupancy				2/18/2015		Wipe	**	
	LVL 4 N Wall		400 µg/ft2, clearance for occupancy				2/18/2015		Wipe	**	
	LVL 4 E Wall		400 µg/ft2, clearance for occupancy				2/18/2015		Wipe	**	
	LVL 4 Floor	30 µg/m3; 50 µg/m3					2/19/2015	8-hr Air		**	

<b>LEVEL 4.5</b>	LVL 4 & LVL 5 between mid rail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	350 µg/ft2			
	LVL 4 & LVL 5, mid Landing		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	90 µg/ft2			
	LVL 4 to LVL 5 Landing		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>			2/19/2015		Wipe	75 µg/ft2

<b>LEVEL 5</b>	LVL 5 Office C507	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**			
	LVL 5 Corridor	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**			
	LVL 5 Conf Rm, C501	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**			
	LVL 5 - Conference Room	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**			
	LVL 5 - Outside Office C507Conference Room	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**			
	LVL 5 office desk		40 µg/ft2, clearance for consumption area	2/13/2015		Wipe	**			
	LVL 5 Conference table		40 µg/ft2, clearance for consumption area	2/13/2015		Wipe	**			
	LVL 5 Floor at Stairs, Conf Rm		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	42 µg/ft2			
	LVL 5 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	130 µg/ft2			
	LVL 5 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	51 µg/ft2			
	LVL 5 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	100 µg/ft2			
	LVL 5 N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	53 µg/ft2			
	LVL 5 S Floor		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>			2/17/2015		Wipe	69 µg/ft2
	LVL 5 W Floor		400 µg/ft2, clearance for occupancy				2/17/2015		Wipe	64 µg/ft2
	LVL 5 N Floor		400 µg/ft2, clearance for occupancy				2/17/2015		Wipe	44 µg/ft2
	LVL 5 E Floor		400 µg/ft2, clearance for occupancy				2/17/2015		Wipe	40 µg/ft2
	LVL 5 Hand Rail		400 µg/ft2, clearance for occupancy				2/17/2015		Wipe	11 µg/ft2
	LVL 5 S Wall		400 µg/ft2, clearance for occupancy				2/18/2015		Wipe	**
	LVL 5 W Wall		400 µg/ft2, clearance for occupancy				2/18/2015		Wipe	**

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**	<b>Below Detection Limits for Sampling and Analytical Equipment</b>
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Location	Requirement		Initial Assessment			Verification		
	OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample Air      Wipe	Initial Assessment	Verification Date of Sample	Type of Sample Air      Wipe	Verification Result
LVL 5 N Wall		400 µg/ft2, clearance for occupancy				2/18/2015	Wipe	**
LVL 5 E Wall		400 µg/ft2, clearance for occupancy				2/18/2015	Wipe	**
LVL 5 Floor	30 µg/m3; 50 µg/m3					2/19/2015	8-hr Air	**
LVL 5 to LVL 6 Landing		400 µg/ft2, clearance for occupancy				2/19/2015	Wipe	34 µg/ft2

<b>LEVEL 6</b>	LVL 6, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015	Wipe	**			
	LVL 6 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015	Wipe	290 µg/ft2			
	LVL 6 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015	Wipe	520 µg/ft2	Resampled on 2/17/2015	Wipe	110 µg/ft2
	LVL 6 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015	Wipe	470 µg/ft2	Resampled on 2/17/2015	Wipe	230 µg/ft2
	LVL 6 N Floor		400 µg/ft2, clearance for occupancy	2/14/2015	Wipe	340 µg/ft2			
	LVL 6 S Floor		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>			2/17/2015	Wipe	110 µg/ft2
	LVL 6 W Floor		400 µg/ft2, clearance for occupancy				2/17/2015	Wipe	230 µg/ft2
	LVL 6 N Floor		400 µg/ft2, clearance for occupancy				2/17/2015	Wipe	240 µg/ft2
	LVL 6 E Floor		400 µg/ft2, clearance for occupancy				2/17/2015	Wipe	140 µg/ft2
	LVL 6 Hand Rail		400 µg/ft2, clearance for occupancy				2/17/2015	Wipe	12 µg/ft2
	LVL 6 S Wall		400 µg/ft2, clearance for occupancy				2/18/2015	Wipe	**
	LVL 6 W Wall		400 µg/ft2, clearance for occupancy				2/18/2015	Wipe	**
	LVL 6 N Wall		400 µg/ft2, clearance for occupancy				2/18/2015	Wipe	13 µg/ft2
	LVL 6 E Wall		400 µg/ft2, clearance for occupancy				2/18/2015	Wipe	16 µg/ft2
	LVL 6	30 µg/m3; 50 µg/m3					2/19/2015	8-hr Air	**
LVL 6 to LVL 7 Landing		400 µg/ft2, clearance for occupancy	2/19/2015				Wipe	11 µg/ft2	

LVL 7, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015	Wipe	**			
LVL 7 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015	Wipe	230 µg/ft2			
LVL 7 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015	Wipe	200 µg/ft2			
LVL 7 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015	Wipe	1000 µg/ft2	Resampled on 2/17/2015	Wipe	140 µg/ft2
LVL 7 N Floor		400 µg/ft2, clearance for occupancy	2/14/2015	Wipe	130 µg/ft2			
LVL 7 S Floor		400 µg/ft2, clearance for occupancy				2/17/2015	Wipe	36 µg/ft2

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**	<b>Below Detection Limits for Sampling and Analytical Equipment</b>
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	Location	Requirement		Initial Assessment			Verification				
		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
<b>LEVEL 7</b>	LVL 7 W Floor		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>				2/17/2015		Wipe	140 µg/ft2
	LVL 7 N Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	27 µg/ft2
	LVL 7 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	56 µg/ft2
	LVL 7 Hand Rail		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	**
	LVL 7 S Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	21 µg/ft2
	LVL 7 W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 7 N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	12 µg/ft2
	LVL 7 E Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 7 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
	LVL 7 to LVL 8 Landing		400 µg/ft2, clearance for occupancy					2/19/2015		Wipe	26 µg/ft2
	Level 7 South Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	580 µg/ft2
	Level 7 South Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	470 µg/ft2
	Level 7 West Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	51 µg/ft2
	Level 7 North Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	71 µg/ft2
	Level 7 East Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	150 µg/ft2
	Level 7 South Outside		800 µg/ft2, clearance for outside surfaces					3/6/2015		Wipe	190 µg/ft2

LVL 8, Top of Handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**				
LVL 8 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	320 µg/ft2				
LVL 8 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	130 µg/ft2				
LVL 8 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	180 µg/ft2				
LVL 8 N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	92 µg/ft2				
LVL 8 S Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	91 µg/ft2
LVL 8 W Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	49 µg/ft2
LVL 8 N Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	80 µg/ft2
LVL 8 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	90 µg/ft2
LVL 8 Hand Rail		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	**

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**	Below Detection Limits for Sampling and Analytical Equipment
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	Location	Requirement		Initial Assessment			Verification				
		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
<b>LEVEL 8</b>	LVL 8 S Wall		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>				2/18/2015		Wipe	**
	LVL 8 W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	13 µg/ft2
	LVL 8 N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	25 µg/ft2
	LVL 8 E Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 8 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
	LVL 8 to LVL 9 Landing		400 µg/ft2, clearance for occupancy					2/19/2015		Wipe	16 µg/ft2
	Level 8 South Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	1000 µg/ft2 (Recleaning)
	Level 8 West Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	14 µg/ft2
	Level 8 North Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	160 µg/ft2
	Level 8 East Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	23 µg/ft2
	Level 8 South Outside		800 µg/ft2, clearance for outside surfaces					3/6/2015; Resampled on 3/17/2015		Wipe	2300 µg/ft2 (Recleaning)
	Level 8 South Outside		800 µg/ft2, clearance for outside surfaces					3/17/2015		Wipe	220 µg/ft2
	<b>LEVEL 8.5</b>	Level 8.5 West Outside			800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	200 µg/ft2		
Level 8.5 North Outside			800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	1900 µg/ft2 (Recleaning)				
Level 8.5 East Outside			800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	340 µg/ft2				
Level 8.5 South Outside			800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	140 µg/ft2				
Level 8.5 North Outside			800 µg/ft2, clearance for outside surfaces	<b>See Verification Sample</b>					5/4/2015		Wipe
	LVL 9, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**				
	LVL 9 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	900 µg/ft2	Resampled on 2/17/2015		Wipe	160 µg/ft2
	LVL 9 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	470 µg/ft2	Resampled on 2/17/2015		Wipe	250 µg/ft2
	LVL 9 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	880 µg/ft2	Resampled on 2/17/2015		Wipe	200 µg/ft2
	LVL 9 N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	480 µg/ft2	Resampled on 2/17/2015		Wipe	140 µg/ft2
	LVL 9 S Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	250 µg/ft2
	LVL 9 W Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	200 µg/ft2

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**	Below Detection Limits for Sampling and Analytical Equipment
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	Location	Requirement		Initial Assessment			Verification					
		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result	
					Air	Wipe			Air	Wipe		
<b>LEVEL 9</b>	LVL 9 N Floor		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>				2/17/2015		Wipe	140 µg/ft2	
	LVL 9 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	160 µg/ft2	
	LVL 9 Hand Rail		400 µg/ft2, clearance for occupancy						2/17/2015		Wipe	**
	LVL 9 S Wall		400 µg/ft2, clearance for occupancy						2/18/2015		Wipe	**
	LVL 9 W Wall		400 µg/ft2, clearance for occupancy						2/18/2015		Wipe	**
	LVL 9 N Wall		400 µg/ft2, clearance for occupancy						2/18/2015		Wipe	**
	LVL 9 E Wall		400 µg/ft2, clearance for occupancy						2/18/2015		Wipe	**
	LVL 9 Floor	30 µg/m3; 50 µg/m3							2/19/2015	8-hr Air		**
	LVL 9 to LVL 10 Landing		400 µg/ft2, clearance for occupancy						2/19/2015		Wipe	41 µg/ft2
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces						2/27/2015		Wipe	150 µg/ft2
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces						2/27/2015; Resampled on 3/6/2015		Wipe	1500 µg/ft2 (Recleaning)
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces						2/27/2015		Wipe	270 µg/ft2
	Level 9 West Outside		800 µg/ft2, clearance for outside surfaces						2/27/2015		Wipe	420 µg/ft2
	Level 9 East Outside		800 µg/ft2, clearance for outside surfaces						2/27/2015		Wipe	280 µg/ft2
	Level 9 North Outside		800 µg/ft2, clearance for outside surfaces						2/27/2015		Wipe	12 µg/ft2
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces						3/6/2015; Resampled on 3/17/2015		Wipe	960 µg/ft2 (Recleaning)
	Level 9 East Outside		800 µg/ft2, clearance for outside surfaces						3/6/2015		Wipe	800 µg/ft2
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces						3/17/2015		Wipe	1200 µg/ft2 (Recleaning)
	Level 9 Southeast Outside		800 µg/ft2, clearance for outside surfaces						3/17/2015		Wipe	2000 µg/ft2 (Recleaning)
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces						7/16/2015		Wipe	1100 µg/ft2 (Recleaning)
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces						8/20/2015		Wipe	1400 µg/ft2 (Recleaning)
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces						8/20/2015		Wipe	1500 µg/ft2 (Recleaning)
Level 9 South Outside		800 µg/ft2, clearance for outside surfaces					8/21/2015		Wipe	400 µg/ft2		
	LVL 10 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	210 µg/ft2					

<b>Data as of August 18th, 2015</b>
<b>Total Samples Taken - 549</b>
<b>Approximate Number of Samples Planned - 430</b>
<b>Total Samples Above Limits - 62</b>

<b>LEGEND</b>	
**	Below Detection Limits for Sampling and Analytical Equipment
	Not Applicable
	Compliant with Requirements
	Above Regulatory Requirements

	Location	Requirement		Initial Assessment			Verification						
		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result		
					Air	Wipe			Air	Wipe			
<b>LEVEL 10</b>	LVL 10 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	420 µg/ft2	Resampled on 2/17/2015 and 2/22/2015		Wipe	59 µg/ft2		
	LVL 10 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	410 µg/ft2	Resampled on 2/17/2015		Wipe	82 µg/ft2		
	LVL 10 N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	79 µg/ft2						
	LVL 10 S Floor		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>				2/17/2015; Resampled on 2/22/2015		Wipe	500 µg/ft2; Resample result 59 µg/ft2		
	LVL 10 W Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	82 µg/ft2		
	LVL 10 N Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	72 µg/ft2		
	LVL 10 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	88 µg/ft2		
	LVL 10 Hand Rail		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	**		
	LVL 10 S Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**		
	LVL 10 W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	14 µg/ft2		
	LVL 10 N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**		
	LVL 10 E Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**		
	LVL 10 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**		
	LVL 10 Floor		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	59 µg/ft2		
	Level 10-11 Landing	30 µg/m3; 50 µg/m3						2/21/2015	10-hr Air		**		
	Level 10-11 Landing	30 µg/m3; 50 µg/m3						2/22/2015	12-hr Air		**		
	Level 10 West Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	23 µg/ft2		
	Level 10 South Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	230 µg/ft2		
	Level 10 North Outside		800 µg/ft2, clearance for outside surfaces					3/6/2015		Wipe	130 µg/ft2		
	Level 10.5 Stairwell Landing		400 µg/ft2, clearance for occupancy							3/13/2015; Resampled on 4/16/15		Wipe	1900 µg/ft2; Resampled result 330 µg/ft2
B2 Interface Level 10 & 11	30 µg/m3; 50 µg/m3		3/13/2015					8-hr Air		**			
LVL 11, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015						Wipe	30 µg/ft2			
LVL 11 Final step		400 µg/ft2, clearance for occupancy	2/13/2015						Wipe	820 µg/ft2 (Recleaning)			
LVL 11 Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	220 µg/ft2							
Level 11 West Outside		800 µg/ft2, clearance for outside surfaces			2/27/2015		Wipe	11 µg/ft2					

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	<b>Not Applicable</b>
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	<b>Above Regulatory Requirements</b>

	Location	Requirement		Initial Assessment			Verification				
		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
<b>LEVEL 11</b>	Level 11 South Outside		800 µg/ft2, clearance for outside surfaces	<b>See Verification Sample</b>				2/27/2015		Wipe	190 µg/ft2
	Level 11 East Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	160 µg/ft2
	Level 11 North Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	**
	Level 11 Floor Bottom of Central Stairwell		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/16/15		Wipe	2400 µg/ft2; Resampled result 210 µg/ft2
	Level 11 Floor Behind Gate C1109		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/16/15		Wipe	3900 µg/ft2; Resampled result 150 µg/ft2
	Level 11 Floor Under GN Heater Panel		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/16/15		Wipe	920 µg/ft2; Resampled result 160 µg/ft2
	Level 11 Top of Light Fixture		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/16/15		Wipe	790 µg/ft2; Resampled result 280 µg/ft2
	Level 11 Horizontal Beam North Wall 3' High		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	300 µg/ft2
	Level 11 Floor in Front of C1103		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	210 µg/ft2
	Level 11 Floor near bathroom entrance		400 µg/ft2, clearance for occupancy					4/16/2015		Wipe	200 µg/ft2
	Level 11 stairwell handrail		400 µg/ft2, clearance for occupancy					4/16/2015		Wipe	41 µg/ft2
	Level 11 stairwell mid-landing, between 11 & 12		400 µg/ft2, clearance for occupancy					4/16/2015; Resampled on 4/20/15; Resampled on 4/21/15		Wipe	1300 µg/ft2; Resampled result 1100 µg/ft2; Resampled result 220 µg/ft2

<b>LEVEL 12</b>	LVL 12, Below LVL 13 Clean Room Entrance		400 µg/ft2, clearance for occupancy	2/5/2015		Wipe	41000.0 µg/ft2 (Recleaning)				
	LVL 12, Final Step		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	2200 µg/ft2 (Recleaning)				
	Level 12 0 ft Inside		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>				3/6/2015		Wipe	570 µg/ft2 (Recleaning)
	Level 12 10 ft Inside		400 µg/ft2, clearance for occupancy					3/7/2015		Wipe	31 µg/ft2
	Level 12 Stairs		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/21/15; Resampled on 4/24/15; Resampled on 4/29/15		Wipe	1200 µg/ft2; Resampled result 560 µg/ft2; Resampled result 610 µg/ft2; Resampled result 430 µg/ft2
	Level 12 Horizontal Shelf on cage door C1206		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	110 µg/ft2
	Level 12 Top of Light Fixture		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/21/15		Wipe	590 µg/ft2; Resampled result 370 µg/ft2

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	<b>Above Regulatory Requirements</b>

	<b>Location</b>	<b>Requirement</b>		<b>Initial Assessment</b>			<b>Verification</b>				
		<b>OSHA - Air (Action Level; Permissible)</b>	<b>HUD - Wipe</b>	<b>Date of Sample</b>	<b>Type of Sample</b>		<b>Initial Assessment</b>	<b>Verification Date of Sample</b>	<b>Type of Sample</b>		<b>Verification Result</b>
					<b>Air</b>	<b>Wipe</b>			<b>Air</b>	<b>Wipe</b>	
	Level 12 Beam on W Wall 5' High		400 µg/ft2, clearance for occupancy				3/30/2015		Wipe	260 µg/ft2	
	Level 12 Stair Rail		400 µg/ft2, clearance for occupancy				4/21/2015		Wipe	71 µg/ft2	
<b>LEVEL 13</b>	LVL 13, Clean Room Floor		400 µg/ft2, clearance for occupancy	2/5/2015		Wipe	**				
	LVL 13, 21 ft outside Clean Room		400 µg/ft2, clearance for occupancy	2/5/2015		Wipe	730.0 µg/ft2 (Recleaning)				
	LVL 13, 2 ft outside Clean Room		400 µg/ft2, clearance for occupancy	2/5/2015		Wipe	12000.0 µg/ft2 (Recleaning)				
	LVL 13, 31 ft outside Clean Room		400 µg/ft2, clearance for occupancy	2/5/2015		Wipe	500.0 µg/ft2 (Recleaning)				
	LVL 13, 8 ft outside Clean Room, Elevator Call Panel		400 µg/ft2, clearance for occupancy	2/5/2015		Wipe	**				
	LVL 13, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	120 µg/ft2				
	LVL 13 - Behind stouts on I-Beam		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	80 µg/ft2				
	LVL 13 - Outside Elevator Buttons		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	24 µg/ft2				
	Level 13 0 ft		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>				3/6/2015		Wipe	92 µg/ft2
	Level 13 10 ft		400 µg/ft2, clearance for occupancy					3/7/2015		Wipe	22 µg/ft2
	Level 13 20 ft		400 µg/ft2, clearance for occupancy					3/8/2015		Wipe	130 µg/ft2
	Level 13 30 ft		400 µg/ft2, clearance for occupancy					3/9/2015		Wipe	83 µg/ft2
	Level 13 Handrail Inside		400 µg/ft2, clearance for occupancy					3/10/2015		Wipe	24 µg/ft2
	Level 13 Mid-rail Inside		400 µg/ft2, clearance for occupancy					3/11/2015		Wipe	33 µg/ft2
	Level 12 Clean Room Floor		400 µg/ft2, clearance for occupancy					3/13/2015		Wipe	140 µg/ft2
	Level 13 Horizontal Shelf on Cage Door C1307		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	160 µg/ft2
	Level 13 Top of Guardrail Around Stair Landing		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	33 µg/ft2
	Level 13 Stairs		400 µg/ft2, clearance for occupancy					4/21/2015; Resampled on 4/24/15; Resampled on 4/29/15		Wipe	940 µg/ft2; Resampled result 420 µg/ft2; Resampled result 330 µg/ft2



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Location	Requirement		Initial Assessment			Verification				
	OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
				Air	Wipe			Air	Wipe	
Level 13 Stair Rail		400 µg/ft2, clearance for occupancy					4/21/2015		Wipe	96 µg/ft2
Level 13 Guard Rail		400 µg/ft2, clearance for occupancy					4/21/2015		Wipe	59 µg/ft2
Level 13 Light Fixture		400 µg/ft2, clearance for occupancy					4/21/2015		Wipe	210 µg/ft2

<b>LEVEL 14</b>	LVL 14, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	49 µg/ft2				
	Level 14 East Inside		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>			3/6/2015		Wipe	2900 µg/ft2 (Recleaning)	
	Level 14 North Inside		400 µg/ft2, clearance for occupancy				3/6/2015		Wipe	930 µg/ft2 (Recleaning)	
	Level 14 West Inside		400 µg/ft2, clearance for occupancy				3/6/2015		Wipe	450 µg/ft2 (Recleaning)	
	Level 14 South Inside		400 µg/ft2, clearance for occupancy				3/6/2015		Wipe	270 µg/ft2	
	Level 14 Handrail		400 µg/ft2, clearance for occupancy				3/6/2015		Wipe	24 µg/ft2	
	Level 14 Mid-rail		400 µg/ft2, clearance for occupancy				3/6/2015		Wipe	28 µg/ft2	
	Level 14 North Handrail		400 µg/ft2, clearance for occupancy				3/30/2015		Wipe	140 µg/ft2	
	Level 14 South Handrail		400 µg/ft2, clearance for occupancy				3/30/2015		Wipe	21 µg/ft2	
	Level 14 Stairs		400 µg/ft2, clearance for occupancy				4/20/2015		Wipe	98 µg/ft2	
	Level 14 Handrail		400 µg/ft2, clearance for occupancy				4/20/2015		Wipe	160 µg/ft2	
	Level 14 Guardrail		400 µg/ft2, clearance for occupancy				4/20/2015		Wipe	34 µg/ft2	
	Level 14 Light Fixture		400 µg/ft2, clearance for occupancy				4/20/2015		Wipe	66 µg/ft2	

<b>L 15</b>	LVL 15, Top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	510 µg/ft2				
	Level 15 Mid-rail Inside		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>			3/6/2015		Wipe	40 µg/ft2	
	Level 15 North Inside		400 µg/ft2, clearance for occupancy				3/6/2015		Wipe	2300 µg/ft2	
	Level 15 West Inside		400 µg/ft2, clearance for occupancy				3/6/2015		Wipe	11000 µg/ft2	
	Level 15 East Inside		400 µg/ft2, clearance for occupancy				3/6/2015		Wipe	19000 µg/ft2	
	Level 15 South Inside		400 µg/ft2, clearance for occupancy				3/6/2015		Wipe	5700 µg/ft2	
	Level 15 Handrail Inside		400 µg/ft2, clearance for occupancy				3/6/2015		Wipe	25 µg/ft2	

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	Location	Requirement		Initial Assessment			Verification				
		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
LEVEL 15	Level 15 Mid-rail Inside		400 µg/ft2, clearance for occupancy	See Verification Sample				3/6/2015		Wipe	35 µg/ft2
	Level 15 Horizontal Beam North Wall		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	580 µg/ft2 (Recleaning)
	Level 15 South Handrail Mid-Rail		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	1000 µg/ft2 (Recleaning)
	Level 15 Floor 1/2 Stairwell Landing		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/20/15		Wipe	1600 µg/ft2; Resampled result 210 µg/ft2
	Level 15 Top of H2O Tank 2		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/20/15		Wipe	620 µg/ft2; Resampled result 260 µg/ft2
	Level 15 Guardrail		400 µg/ft2, clearance for occupancy					4/20/2015		Wipe	86 µg/ft2
	Level 15 Stairwell Handrail		400 µg/ft2, clearance for occupancy					4/20/2015		Wipe	180 µg/ft2
	Level 15 Light Fixture		400 µg/ft2, clearance for occupancy					4/20/2015		Wipe	72 µg/ft2

LEVEL 16	LVL 16, Top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	59 µg/ft2				
	LVL 16 Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	250 µg/ft2				
	Level 16 Southeast Outside		800 µg/ft2, clearance for outside surfaces	2/27/2015		Wipe	290 µg/ft2				
	Level 16 Northeast Outside		800 µg/ft2, clearance for outside surfaces	2/27/2015		Wipe	**				
	Level 16 Northwest Outside		800 µg/ft2, clearance for outside surfaces	2/27/2015		Wipe	13 µg/ft2				
	Level 16 East Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	8700 µg/ft2 (Recleaning)
	Level 16 North Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	6400 µg/ft2 (Recleaning)
	Level 16 West Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	77 µg/ft2
	Level 16 South Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	290 µg/ft2
	Level 16 Handrail		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	53 µg/ft2
	Level 16 Horizontal Beam South 6' High		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	200 µg/ft2
	Level 16 Guardrail Top-Rail Handrail		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	34 µg/ft2
	Level 16 Stairwell Second Step		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/17/15; Resampled on 4/20/15; Resampled on 4/21/15; Resampled on 4/2/15;		Wipe	1600 µg/ft2; Resampled result 2400 µg/ft2; Resampled result 630 µg/ft2; Resampled result 670 µg/ft2; Resampled result 260 µg/ft2

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Location	Requirement		Initial Assessment			Verification				
	OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
				Air	Wipe			Air	Wipe	
Level 16 Top of Light Fixture		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/17/15		Wipe	570 µg/ft2; Resampled result 210 µg/ft2
Level 16 Guardrail Top - North Side		400 µg/ft2, clearance for occupancy					4/17/2015		Wipe	85 µg/ft2
Level 16 Stair rail top		400 µg/ft2, clearance for occupancy					4/17/2015		Wipe	54 µg/ft2

<b>LEVEL 17</b>	Level 17 East Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	530 µg/ft2 (Recleaning)				
	Level 17 North Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	320 µg/ft2				
	Level 17 West Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	31 µg/ft2				
	Level 17 South Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	350 µg/ft2				
	Level 17 Mid-rail Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	52 µg/ft2				
	Level 17 Handrail		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	**				
	Level 17 Top of Transformer 001374		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	71 µg/ft2
	Level 17 Horizontal Beam, Northeast Corner		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	220 µg/ft2
	Level 17 Top of Cable Tray, by Elevator		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/23/2015; Resampled on 4/27/2015		Wipe	1500 µg/ft2; Resampled result 460 µg/ft2; Resampled result 270 µg/ft2
	Level 17 Top of Fluorescent Light Fixture		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/23/2015; Resampled on 4/27/2015		Wipe	400 µg/ft2; Resampled result 4600 µg/ft2; Resampled result 130 µg/ft2
	Level 17 Horizontal Beam, South Wall		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	330 µg/ft2
	Level 17 Stairs		400 µg/ft2, clearance for occupancy					4/23/2015; Resampled on 4/27/15; Resampled on 4/29/15		Wipe	780 µg/ft2; Resampled result 1000 µg/ft2; Resampled result 300 µg/ft2
	Level 17 Stairs rail		400 µg/ft2, clearance for occupancy					4/23/2015		Wipe	110 µg/ft2
	Level 17 Guard rail		400 µg/ft2, clearance for occupancy					4/23/2015		Wipe	74 µg/ft2

LVL 18, Top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**					
Level 18 South Inside		400 µg/ft2, clearance for occupancy						3/6/2015		Wipe	55 µg/ft2

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	Location	Requirement		Initial Assessment			Verification				
		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
<b>LEVEL 18</b>	Level 18 West Inside		400 µg/ft2, clearance for occupancy	<b>See Verification Sample</b>				3/6/2015		Wipe	110 µg/ft2
	Level 18 North Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	490 µg/ft2 (Recleaning)
	Level 18 East Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	510 µg/ft2 (Recleaning)
	Level 18 Handrail Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	63 µg/ft2
	Level 18 Mid-rail Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	39 µg/ft2
	Level 18 Top of Electrical Panel LP-117		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/23/2015; Resampled on 4/27/15; Resampled on 4/29/15		Wipe	3300 µg/ft2; Resampled result 1100 µg/ft2; Resampled result 550 µg/ft2; Resampled result 22 µg/ft2
	Level 18 Diagonal Beam, Southwest corner		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	31 µg/ft2
	Level 18 Top of A/C unit, Northwest corner		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	220 µg/ft2
	Level 18 Horizontal Beam, Northeast		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	510 µg/ft2
	Level 18 Top of Light Fixture near Room C1803		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/23/2015		Wipe	8100 µg/ft2; Resampled result 96 µg/ft2
	Level 18 Stairs		400 µg/ft2, clearance for occupancy					4/23/2015		Wipe	210 µg/ft2
	Level 18 Stairs Rail		400 µg/ft2, clearance for occupancy					4/23/2015		Wipe	77 µg/ft2
	Level 18 Guard Rail		400 µg/ft2, clearance for occupancy					4/23/2015		Wipe	100 µg/ft2

<b>LEVEL 19</b>	Level 19 South Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	400 µg/ft2 (Recleaning)				
	Level 19 East Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	79 µg/ft2				
	Level 19 South Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	260 µg/ft2				
	Level 19 East Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	120 µg/ft2				
	Level 19 Handrail Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	90 µg/ft2				
	Level 19 Mid-rail Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	40 µg/ft2				
	Level 19 Floor, Diamond Plate, Top of Stairs		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/23/2015		Wipe	1600 µg/ft2; Resampled result 49 µg/ft2
	Level 19 Tabletop in Room C904		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	100 µg/ft2

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<b>LEGEND</b>	
**	Below Detection Limits for Sampling and Analytical Equipment
	Not Applicable
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	Location	Requirement		Initial Assessment			Verification				
		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
LEVEL 19	Level 19 Floor, Diamond Plate, Room C1904		400 µg/ft2, clearance for occupancy	See Verification Sample				3/30/2015; Resampled on 4/23/2015		Wipe	1000 µg/ft2; Resampled result 49 µg/ft2
	Level 19 Diagonal beam, Northwest, 5'		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	300 µg/ft2
	Level 19 Horizontal Beam, East Wall		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	39 µg/ft2
	Level 19 Guardrail, Top Rail		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	15 µg/ft2
	Level 19 Horizontal Beam, South Wall		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	180 µg/ft2
	Level 19 Top of Light Fixture		400 µg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/23/2015		Wipe	1200 µg/ft2; Resampled result 240 µg/ft2
	Level 19 Guardrail		400 µg/ft2, clearance for occupancy					4/23/2015		Wipe	150 µg/ft2
LEVEL 20	Level 20 North Outside		800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	170 µg/ft2				
	Level 20 West Outside		800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	100 µg/ft2				
	Level 20 South Outside		800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	1400 µg/ft2 (Recleaning)				
	Level 20 East Outside		800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	230 µg/ft2				
	Level 20 SW Corner Outside		800 µg/ft2, clearance for outside surfaces	See Verification Sample				4/23/2015			170 µg/ft2
	Level 20 E Side Outside		800 µg/ft2, clearance for outside surfaces	See Verification Sample				4/23/2015			210 µg/ft2
	Level 20 SE Side Outside		800 µg/ft2, clearance for outside surfaces	See Verification Sample				4/23/2015			300 µg/ft2
	Level 20 North Side Outside		800 µg/ft2, clearance for outside surfaces	See Verification Sample				4/23/2015			430 µg/ft2
WEST ELEVATOR	West Elevator, Floor		400 µg/ft2, clearance for occupancy	2/5/2015		Wipe	1000.0 µg/ft2	Resampled on 2/17/2015		Wipe	65 µg/ft2
	West Elevator, Call Panel		400 µg/ft2, clearance for occupancy	2/5/2015		Wipe	320.0 µg/ft2				26 µg/ft2
	West Elevator button panel		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**				99 µg/ft2
	W Pier Elevator Access Wall		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	18 µg/ft2				
	West Elevator North Wall		400 µg/ft2, clearance for occupancy	See Verification Sample				2/17/2015		Wipe	120 µg/ft2
	West Elevator West Wall		400 µg/ft2, clearance for occupancy	See Verification Sample				2/17/2015		Wipe	**

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		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
	West Elevator South Wall		400 µg/ft2, clearance for occupancy	2/17/2015		Wipe	940 µg/ft2	Resampled on 2/17/2015		Wipe	**
	West Elevator Door		400 µg/ft2, clearance for occupancy								**
	West Elevator Floor		400 µg/ft2, clearance for occupancy								**
	West Elevator button panel		400 µg/ft2, clearance for occupancy								120 µg/ft2
	West Elevator Floor		400 µg/ft2, clearance for occupancy								15 µg/ft2
EAST ELEVATOR	East Elevator Floor		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	940 µg/ft2	Resampled on 2/17/2015		Wipe	
	East Elevator North Wall		400 µg/ft2, clearance for occupancy	2/17/2015		Wipe	See Verification Sample	2/17/2015		Wipe	Using exterior clearance standard instead of interior clearance standard
	East Elevator East Wall		400 µg/ft2, clearance for occupancy								Using exterior clearance standard instead of interior clearance standard
	East Elevator South Wall		400 µg/ft2, clearance for occupancy								460 µg/ft2
	East Elevator Door		400 µg/ft2, clearance for occupancy								16 µg/ft2
	East Elevator Floor		400 µg/ft2, clearance for occupancy								**
	East Elevator button panel		400 µg/ft2, clearance for occupancy								
	East Elevator Floor		400 µg/ft2, clearance for occupancy								
East Elevator Floor		400 µg/ft2, clearance for occupancy									
CONSTRUCTION ELEVATOR	Construction Elevator Floor		800 µg/ft2, clearance for outside surfaces	2/14/2015		Wipe	500 µg/ft2				
	Construction Elevator Wall		800 µg/ft2, clearance for outside surfaces	2/14/2015		Wipe	15 µg/ft2				
	Level 10 Elevator Floor		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	See Verification Sample	3/6/2015		Wipe	
	Level 10 Elevator Wall		800 µg/ft2, clearance for outside surfaces								3/6/2015
	North side, flambucket stops top	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	North Side, 20 ft N of smoke pen	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	North Side, 50 ft N of smoke pen	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				**
	North Side - 20 ft North of Smoke pen	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				**
	NORTH - 50 ft from Containment		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	76 µg/ft2				**
	NORTH - 50 ft from Containment -2		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	46 µg/ft2				**
	NORTH - 50 ft from Containment -3		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	82 µg/ft2				**
	NORTH - 100 ft from Containment Porta-Potty		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	**				**

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	Location	Requirement		Initial Assessment			Verification				
		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
<b>NORTH EXTERIOR</b>	NORTH - 100 ft from Containment Porta-Potty-2		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	97 µg/ft2				**
	NORTH - 100 ft from Containment Porta-Potty-3		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	67 µg/ft2				**
	NORTH - 10 ft from Stand	30 µg/m3; 50 µg/m3						2/17/2015	8 hr Air		**
	NORTH - 10 ft from Stand	30 µg/m3; 50 µg/m3						2/17/2015	8 hr Air		39 µg/ft2
	NORTH - 50 ft from Stand	30 µg/m3; 50 µg/m3						2/17/2015	8hr Air		19 µg/ft2
	NORTH - 50 ft from Stand	30 µg/m3; 50 µg/m3						2/17/2015	8hr Air		41 µg/ft2
	NORTH - 10 ft from Stand		800 µg/ft2, clearance for outside surfaces					2/18/2015	8 hr Air		190 µg/ft2
	NORTH - 50 ft from Stand		800 µg/ft2, clearance for outside surfaces					2/18/2015	8 hr Air		**
	NORTH - 100 ft from Stand		800 µg/ft2, clearance for outside surfaces					2/18/2015	8hr Air		66 µg/ft2
	NORTH - 100 ft from Stand		800 µg/ft2, clearance for outside surfaces					2/18/2015	8hr Air		
	NORTH - 100 ft from Stand		800 µg/ft2, clearance for outside surfaces					2/18/2015	8hr Air		
	NORTH - 0' from stand		800 µg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
	NORTH - 20' from stand		800 µg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
	NORTH - 0' from stand		800 µg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
	NORTH - 20' from stand		800 µg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
	NORTH - 0' from stand		800 µg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
	NORTH - 20' from stand		800 µg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
	South West side	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	South Side, 75 ft from South Entrance	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	South side, He Purge Panel	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	South Side - 75 ft from south entrance	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				
	South Side - He purge panel	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				
	South Side - at South Entrance	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				21 µg/ft2
	SOUTH Porta Potty top		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	**				**
	SOUTH - 100 ft from Containment		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	140 µg/ft2				**
	SOUTH - 50 Ft from Containment		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	**				**
	SOUTH - 50 Ft from Containment - 2		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	**				**
	SOUTH - 50 Ft from Containment - 3		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	68 µg/ft2				**
	SOUTH- 100 ft from Containment - 2		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	74 µg/ft2				**
	SOUTH- 100 ft from Containment - 3		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	470 µg/ft2				**
	SOUTH - 0-10 ft from containment pt - Generator		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	890 µg/ft2	Resampled on 2/24/2015		Wipe	**

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		OSHA - Air (Action Level; Permissible)	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result	
					Air	Wipe			Air	Wipe		
<b>SOUTH EXTERIOR</b>	10 ft South Side	30 µg/m3; 50 µg/m3		<b>See Verification Sample</b>				2/24/2015	Air	**		
	10 ft South Side	30 µg/m3; 50 µg/m3						2/24/2015	Air	21 µg/ft2		
	10 ft South Side	30 µg/m3; 50 µg/m3							2/24/2015	Air	**	
	50 ft South Side	30 µg/m3; 50 µg/m3							2/24/2015	Air	60 µg/ft2	
	50 ft South Side	30 µg/m3; 50 µg/m3							2/24/2015	Air	**	
	50 ft South Side	30 µg/m3; 50 µg/m3							2/24/2015	Air	200 µg/ft2	
	100 ft South Side	30 µg/m3; 50 µg/m3							2/24/2015	Air	**	
	100 ft South Side	30 µg/m3; 50 µg/m3							2/24/2015	Air	33 µg/ft2	
	100 ft South Side	30 µg/m3; 50 µg/m3							2/24/2015	Air	**	
	South Outside Generator		800 µg/ft2, clearance for outside surfaces						2/24/2015		Wipe	**
	South Outside lift equipment		800 µg/ft2, clearance for outside surfaces						2/24/2015		Wipe	15 µg/ft2
	South outside sample panel		800 µg/ft2, clearance for outside surfaces						2/24/2015		Wipe	130 µg/ft2
	South outside light tower		800 µg/ft2, clearance for outside surfaces						2/24/2015		Wipe	28 µg/ft2
	South outside VJ 134 Panel		800 µg/ft2, clearance for outside surfaces						2/24/2015		Wipe	
	South outside small crane		800 µg/ft2, clearance for outside surfaces						2/24/2015		Wipe	
	South outside feeding pipe		800 µg/ft2, clearance for outside surfaces						2/24/2015		Wipe	15 µg/ft2
	South outside large crane		800 µg/ft2, clearance for outside surfaces						2/24/2015		Wipe	29 µg/ft2
	South outside 470 Machine		800 µg/ft2, clearance for outside surfaces						2/24/2015		Wipe	12 µg/ft2
	South outside Volvo Machine		800 µg/ft2, clearance for outside surfaces						2/24/2015		Wipe	38 µg/ft2
	South outside light pole		800 µg/ft2, clearance for outside surfaces						2/24/2015		Wipe	25 µg/ft2
South dumpster		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	37 µg/ft2		
										39 µg/ft2		
<b>WEST EXTERIOR</b>	WEST Porta Potty top		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	**				18 µg/ft2	
	West outside parking bumper #1		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	**	
	West outside parking bumper #2		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe		
	West outside blue bin		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe		
	West outside light plant		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe		
	West outside parking stripe #1		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe		
	West outside parking stripe #2		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe		
	West outside parking stripe #3		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe		
	West outside parking stripe #4		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe		



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					Air	Wipe			Air	Wipe	
	West generator		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	
EAST EXTERIOR	East fan		800 µg/ft2, clearance for outside surfaces	2/24/2015		Wipe	41 µg/ft2				
	East Orange Machine		800 µg/ft2, clearance for outside surfaces	2/24/2015		Wipe	49 µg/ft2				
	East Dock Wall #3		800 µg/ft2, clearance for outside surfaces	2/24/2015		Wipe	19 µg/ft2				
	East Dock Wall #2		800 µg/ft2, clearance for outside surfaces	2/24/2015		Wipe	17 µg/ft2				
	East Light Pole		800 µg/ft2, clearance for outside surfaces	2/24/2015		Wipe	49 µg/ft2				
	East Rail		800 µg/ft2, clearance for outside surfaces	2/24/2015		Wipe	86 µg/ft2				