# U.S. ARMY ENGINEERING AND SUPPORT CENTER HUNTSVILLE FACILITY REDUCTION PROGRAM

(CONTRACT NO. W912DY-09-D-0045)

# BUILDING 4819 CONCRETE FLOOR INSPECTION AND SAMPLING REPORT

Fort Drum, NY

**January 4, 2012** 

Prepared for:



Provided by:

frankie friend & Associates, Inc., 2305 E. Arapahoe Road, Suite 132, Centennial, CO 80122

### **SUMMARY**

The attached report contains the results of a limited sample collection and analysis of the concrete floor in Building 4819 at Fort Drum, NY, per the request of the U.S. Army Engineering and Support Center, Huntsville under contract number W912DY-09-D-0045, Task Order 015. The purpose of the sampling and analysis was to determine if hazardous materials were present in the concrete floor of the building. The sampling and testing plan was coordinated in advance with Ms. Donna Mansulla, the Fort Drum Hazardous Waste Program Manager.

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	TCLP-8 RCRA Metals Sample Analysis Results	

### Jones Stohosky Environmental Laboratory, Inc.

3325 SE Harrison Street, Milwaukie, OR 97222 Ph 503-659-8338 Fax 503-659-7577 www.jselabs.com



4 January 2012

Frankie Friend & Associates, Inc. Attn: Michael Allen 2305 E Arapahoe Road, Suite 132 Centennial, CO 80122

Re: Building 4819 concrete floor sampling, Ft. Drum, New York (revised)

Building 4819 is currently being used for hazardous material storage. Materials stored include used anti-freeze fluid, used oils, acids, bases, solvents, and other toxic materials. The floor was reportedly cleaned some time ago, and appeared clean without stains. Sampling was coordinated with Ms. Donna Mansulla, Ft. Drum Hazardous Waste Program Manager.

Samples were collected of the top 2 cm of the concrete floor of building 4819 at Ft. Drum on 12 December 2011 by Francis Stohosky of JSE Labs. Samples were collected in accordance with ASTM Standard D420-69.

Samples were taken from five relatively equally spaced locations and the center of the loading dock from each bay (bay 1 and bay 2, sample location plan attached). Subsamples from each bay were combined into a single composite sample for each bay. These samples were analyzed for PCB's and RCRA regulated metals (analysis attached). No metals or PCB's were detected in the samples. The following tables summarize the laboratory findings:

TCLP-8 RCRA Metals EPA Method 1311

JSE Labs Sample ID	Sample Description	Re	sults	in mil	ligrar	ns pe	r Lite	r (mg	/L)
		Ag	As	Ba	Cd	Cr	Hg	Pb	Se
Pb1100314	4819, Bay 1	ND	ND	ND	ND	ND	ND	ND	ND
Pb1100315	4819, Bay 2	ND	ND	ND	ND	ND	ND	ND	ND

Reporting limit: 0.1 mg/L

Silver (Ag), Arsenic (As), Barium (Ba), Cadmium (Cd), Chromium (Cr), Mercury (Hg), Lead (Pb), Selenium (Se) ND: None Detected.

### EPA Method 8082

All concentrations listed in mg/Kg (ppm)

JSE Labs	Client Sample				ARO	OCHLO	OR#				Surrogate
Sample ID	Description <b>Description</b>	1016	1221	1232	1242	1248	1254	1260	1260	1268	Recovery (%)
OT1100312	4819, Bay 2	ND	ND	ND	ND	ND	ND	ND	ND	ND	80.5
OT1100313	4819, Bay 1	ND	ND	ND	ND	ND	ND	ND	ND	ND	79.8

Blank: ND

Surrogate is Decachlorobiphenyl

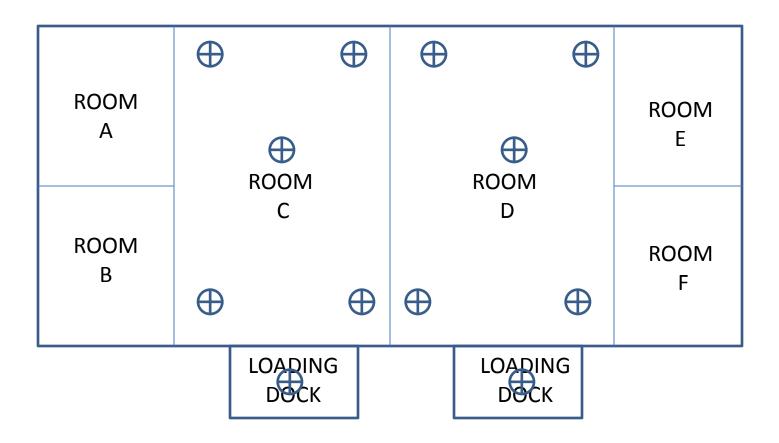
Reporting limit:1 ppm.

Francis Stohosky

### Appendix 1

Bldg 4819 Sample Locations

Fort Drum Building 4819





### Appendix 2

PCB Sample Analysis Results

### **CHAIN OF CUSTODY RECORD**

Contact Person/Project Manager Tracy Currie

Company JSE Labs, Inc.

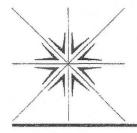
Page 1 of 1

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### Specialty Analytical

11711 SE Capps Road Clackamas, OR 97015

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		mples Will Be Disposed of 60 Days After Receipt. I days subject to storage fee(s)								( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	Receive	d For Lat		Javd	19 Date	Time 16,40
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## **Specialty Analytical**

11711 SE Capps Road Clackamas, OR 97015 (503) 607-1331 Fax (503) 607-1336

December 21, 2011

Tracy Currie JSE Labs 3325 SE Harrison Street Milwaukie, OR 97222

TEL: (503) 659-8338 FAX: (503) 659-7577

RE: 4819 / 04127.70 Dear Tracy Currie:

Order No.: 1112163

Specialty Analytical received 2 samples on 12/16/2011 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Project Manager

Specialty Analytical, An Oregon Corporation

### **Specialty Analytical**

Client Sample ID: OT1100312

Date: 21-Dec-11

CLIENT:

JSE Labs

**Project:** 

4819 / 04127.70

Lab Order:

1112163

Lab ID:

1112163-01

**Collection Date:** 12/16/2011 1:11:00 PM

Matrix: CEMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL	4	SW8082				Analyst: jrp
Aroclor 1016	ND	0.333		μg/Kg	1	12/20/2011
Aroclor 1221	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1232	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1242	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1248	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1254	ND	0.333		μg/Kg	1	12/20/2011
Aroclor 1260	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1262	ND	0.333		µg/Kg	1	12/20/2011
Aroclor 1268	ND	0.333		µg/Kg	1	12/20/2011
Surr: Decachlorobiphenyl	80.5	56.5-130		%REC	1	12/20/2011

Lab ID:

1112163-02

Client Sample ID: OT1100313

Collection Date: 12/16/2011 1:11:00 PM

Matrix: CEMENT

Analyses	Result	Limit Q	ual Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082			Analyst: jrp
Aroclor 1016	ND	0.333	µg/Kg	1	12/20/2011
Aroclor 1221	ND	0.333	µg/Kg	1	12/20/2011
Aroclor 1232	ND	0.333	μg/Kg	1	12/20/2011
Aroclor 1242	ND	0.333	μ <b>g</b> /Kg	1	12/20/2011
Aroclor 1248	ND	0.333	µg/Kg	1	12/20/2011
Aroclor 1254	ND	0.333	μ <b>g/</b> Kg	1	12/20/2011
Aroclor 1260	ND	0.333	μg/Kg	1	12/20/2011
Aroclor 1262	ND	0.333	µg/Kg	1	12/20/2011
Aroclor 1268	ND	0.333	μg/Kg	1	12/20/2011
Surr: Decachlorobiphenyl	79.8	56.5-130	%REC	1	12/20/2011

Date: 21-Dec-11

**CLIENT:** 

JSE Labs

Work Order:

1112163

Project:

4819 / 04127.70

### ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL\_S

Sample ID: MB-30280	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 12/19/2011	Run ID: GCK_111220A
Client ID: ZZZZZ	Batch ID: 30280	TestNo: SW8082		Analysis Date: 12/20/2011	SeqNo: 803462
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Re	f Val %RPD RPDLimit Qual
Aroclor 1016	ND	0.333			
Aroclor 1221	ND	0.333			
Aroclor 1232	ND	0.333			
Aroclor 1242	ND	0.333			
Aroclor 1248	ND	0,333			
Aroclor 1254	ND	0.333			
Aroclor 1260	ND	0.333			
Aroclor 1262	ND	0.333			
Aroclor 1268	ND	0.333			
Surr: Decachlorobiphenyl	5678	0 6667	0	85,2 56,5 130	0 0
Sample ID: LCS-30280	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 12/19/2011	Run ID: GCK_111220A
Client ID: ZZZZZ	Batch ID: 30280	TestNo: SW8082		Analysis Date: 12/20/2011	SeqNo: 803463
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Re	f Val %RPD RPDLimit Qual
Aroclor 1016/1260	70	0.333 66.67	0	105 44.3 137	0 0
Sample ID: 1112163-02AMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 12/19/2011	Run ID: GCK_111220A
Client ID: OT1100313	Batch ID: 30280	TestNo: SW8082		Analysis Date: 12/20/2011	SeqNo: 803464
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Re	f Val %RPD RPDLimit Qual
Aroclor 1016/1260	86.67	0.333 66.67	0	130 56.6 123	0 0 S,MI
Sample ID: 1112163-02AMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 12/19/2011	Run ID: GCK_111220A
Client ID: OT1100313	Batch ID: 30280	TestNo; SW8082		Analysis Date: 12/20/2011	SeqNo: 803465
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Re	f Val %RPD RPDLimit Qual
Aroclor 1016/1260	72.67	0.333 66.67	0	109 56.6 123 8	6.67 17.6 20

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

CLIENT:

JSE Labs

Work Order: 1112163

Project:

4819 / 04127.70

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL\_S

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg		Prep Date	a:		Run ID: GCK_111220A	
Client ID: ZZZZZ	Batch ID: 30280	TestNo: SW8082			Analysis Date	e: 12/20/2	011	SeqNo: 803461	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Aroclor 1016/1260	63.33	0.333 66.67	0	95	85	115	0	0	
Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg		Prep Date	e:		Run ID: GCK_111220A	
Client ID: ZZZZZ	Batch ID: 30280	TestNo: SW8082			Analysis Date	a: 12/20/2	011	SeqNo: 803468	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Aroclor 1016/1260	66,67	0,333 66.67	0	100	85	115	0	0	

### Appendix 3

TCPL-8 RCRA Metals Sample Analysis Results

CHAIN OF CUSTODY

Report Number

80322

Phone(503) 231-9320 FAX(503) 231-9344 Sas Comments Analysis Requested 00 12/17/4 **EPA 82608** CO CO COST (HA9) MIS 07S8 A93 EPA 8021B (BTEX) Affillation NW-TPH-HCID NW-TPH-GX XQ-HQT-WN Volume X 3-5 Business Days 041271-10-0T-1214 Received by 5000 Received by 503 659 8338 500 700 FB-FF Sing Regular 1334 Sampling R SE SE Report Attention umaround Times Purchase Order Sampling 12/16 12/16 Date of the second Yes / No 2415 SE 11th Ave. Portland Oregon 97214 07 11 X 315 On Ice? Field ID 100314 2 04129.70 Temperature. D8235 Relinquished by LAB-ID 10 823 Profect Name Company Project # Samples Site

Environmental Sciences, Inc.

Phone (503) 231-9320 FAX (503) 231-9344

MOSECULA

# LABORATORY REPORT

. Jones-Stohosky Environmental Laboratory 3125 SE Harrison St. Milwaukie, OR 97222

PROJECT NAME: 4819
SITE LOCATION:
PROJECT NUMBER: 04127.70

 REPORT NUMBER:
 80322

 REPORT DATE:
 12/23/11

 PAGE:
 Page I of I

ICPMS(EPA 200.8) Metais Report - TCLP Concrete

EPA 1311

Silver (Ag) Arsenic (As) Barium (Ba) Cadmium (Cd) Chromium (Cr) Mercury (Hg) Lead (Pb) Selenium (Se)

										Sample
		Ag	As	Ba	ਟ	ඊ	Hg	Pb	Se	Collection
Field 10	LAB ID	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Date
OT1100314	D8235	ND	QN	QN	Ð	Q.	QX.	QX	QN	12/16/2011
OT1100315	D8236	QN	2	Q.	N N	Q	QN	ND	QN	12/16/2011
Blank		GN	2	QN	QN	2	Q.	2	S	
Reporting Limit		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

11L2017A.B

Batch

PAGE 03/03

# Quality Control Report for Metals by ICPMS

	Ag	As	Ba	ਲ	ڼ	Hg	Pb	Š
1112017A.B	ug/L	ug/L	ng/L	ng/L	ug/L	ug/L	Ug/L	ng/L
BLANK	0.00	1.12	00'00	0.00	0.00	3.77	0.00	0.00
Acceptable Range	<10	<10	<10	0I>	<10	V 10	\$10	01V
CONTROL	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
LRB	0.00	0.86	0.00	0.00	0.00	3,84	0.00	0.00
Acceptable Range	01>	<b>⊕</b>	√10 √10	<10	· 10	00	0 <u>I</u> >	<10
CONTROL	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
SB	125.00	136.40	111.50	122.90	123,90	1	124.00	112.70
Theoretical Value	125.00	125.00	125,00	125.00	125.00	1	125.00	125.00
Percent Recovery	100%	%601	89%	%86	%66	š	%66	%06
Acceptable Range	70%-130%	70%-130%	70%-130%	70%-130%	70%-130%	ı	70%-130%	70%-130%
CONTROL	PASS	PASS	PASS	PASS	PASS	1	PASS	PASS
Calibration R <sup>2</sup>	866.0	666.0	6660	6660	0.998	0.998	0,999	0.999
Acceptable Range	066'0 <	> 0.990	> 0.990	> 0.990	> 0.990	> 0.990	> 0.990	> 0.990