

SAF-RC-001

Industrial Hygiene Sampling

FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG 06I-0375-01 SAF-RC-001

Rad only Chem only Rad & Chem

Complete Partial

300 Area 3722 Bldg

RECEIVED
MAR 21 2006
EDMC



Report Identification Number: 06I-0375-01
 Subcontract Number: 0000X-BO-G0058-B-Mod#4
 Name of Industrial Hygienist: Denise Pitts / Henry Ruby
 Laboratory Identification Number: DCHM
 SAF#: RC-001 / R37220 -J451
 Payroll#: 8C104

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
30 Jan 2006	J11323	06I02980	NMAM 7300M	G0610010	MCE
30 Jan 2006	J10YF0	06I02981	NMAM 7300M	G0610010	MCE
30 Jan 2006	J10YD9	06I02982	NMAM 7300M	G0610010	MCE

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Name: Lisa M. Reid
 Title: Chemist
 Date: February 06, 2006

Report Identification Number: 06I-0375-01
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General Set Information: There are 3 samples in set 06I-0374-01, 3 samples in set 06I-0375-01 and 8 samples in set 06I-0400-01 which were analyzed for beryllium, lead and cadmium on MCE filter. There are 3 samples in set 06I-0402-01 which were analyzed cadmium. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 10 mL of 1:1 (v/v) nitric acid. Samples were digested in a hot block set at 110°C for 40 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium, cadmium and lead recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Limit of Quantitation (LOQ) of 0.01 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Limit of Quantitation (LOQ) of 0.08 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Limit of Quantitation (LOQ) of 1. ug/sample.

Method Blank Analysis: No beryllium, cadmium or lead was found in the media blank sample above the Limit of Quantitation (LOQ).

Dilution(s): NA.

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS result was within the control limit of +/- 20%. The Relative Percent Differences (RPD) between the LCS and the LCSD was within the control limit of 20%.

Replicate Analysis: One sample was replicated with this analysis run. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:

Final result for aqueous samples ($\mu\text{g}/\text{sample}$) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ($\mu\text{g}/\text{L}$)

B = Concentration factor from sample preparation

= $\frac{\text{Final Volume of Digestate (L)}}{\text{Sample}}$

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu\text{g}/\text{L}) \times (0.025 \text{ L}/\text{sample}) \times (1) = 0.025 \mu\text{g}/\text{sample}$

Miscellaneous Comments: None.

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Customer Sample Number	Laboratory Sample Number	Date Analyzed	Beryllium $\mu\text{g}/\text{sample}$		Beryllium $\mu\text{g}/\text{m}^3$		Air Volume L	
J11323	06I02980	03 Feb 2006	0.017		0.026		650.	
J10YF0	06I02981	03 Feb 2006	<0.01	U	**		0.00	
J10YD9	06I02982	03 Feb 2006	<0.01	U	**		0.00	
Limit of Detection (LOD)			0.01					
Required Detection Limit (RDL)								

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Lead $\mu\text{g}/\text{sample}$		Lead $\mu\text{g}/\text{m}^3$		Cadmium $\mu\text{g}/\text{sample}$	
J11323	06I02980	03 Feb 2006	<1.	U	<1.5	U	<0.08	U
J10YF0	06I02981	03 Feb 2006	<1.	U	**		<0.08	U
J10YD9	06I02982	03 Feb 2006	<1.	U	**		<0.08	U
Limit of Detection (LOD)			1.				0.08	
Required Detection Limit (RDL)								

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Cadmium $\mu\text{g}/\text{m}^3$	
J11323	06I02980	03 Feb 2006	<0.12	U
J10YF0	06I02981	03 Feb 2006	**	
J10YD9	06I02982	03 Feb 2006	**	
Limit of Detection (LOD)				
Required Detection Limit (RDL)				

U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.

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Batch ID: G0610010

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-240749-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
BL-240749-1	MB	Lead	µg/sample	ND	NA	NA	NA	NA
BL-240749-1	MB	Cadmium	µg/sample	ND	NA	NA	NA	NA
QC-240749-1	LCS	Beryllium	µg/sample	10.6	NA	10.0	106.	NA
QC-240749-1	LCS	Lead	µg/sample	106.	NA	100.	106.	NA
QC-240749-1	LCS	Cadmium	µg/sample	33.0	NA	30.0	110.	NA
QD-240749-1	LCSD	Beryllium	µg/sample	10.7	10.6	10.0	107.	0.535
QD-240749-1	LCSD	Lead	µg/sample	108.	106.	100.	108.	1.18
QD-240749-1	LCSD	Cadmium	µg/sample	33.2	33.0	30.0	111.	0.638

MB - Method Blank
 LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample Duplicate
 MS - Matrix Spike
 MSD - Matrix Spike Duplicate
 LD - Laboratory Duplicate

 NA - Not Applicable
 ND - Parameter not detected above LOD

$$\text{LCS, LCSD Percent Rec.} = (\text{Result} / \text{Target}) * 100.0$$

$$\text{MS, MSD Percent Rec.} = ((\text{Result} - \text{Parent}) / \text{Target}) * 100.0$$

$$\text{LCS, LCSD Relative Percent Diff.} = ((|\text{LCS} - \text{LCSD}|) / ((\text{LCS} + \text{LCSD})/2.0)) * 100.$$

$$\text{MS, MSD Relative Percent Diff.} = ((|\text{MS} - \text{MSD}|) / ((\text{MS} + \text{MSD})/2.0)) * 100.$$

$$\text{LD Relative Percent Diff.} = ((|\text{Parent} - \text{LD}|) / ((\text{Parent} + \text{LD})/2.0)) * 100$$

Enter (in line below the first Sample Number from Page One:

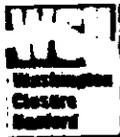
J11323

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	
Received By/Event	DATE / TIME
Carla Hughes Locked cabinet 314g 3746 Rm #16	1-30-06 / 1545
Goddie Malton Goddie Malton	01-31-06 1430
R2 Steffler Fed Ex	1-31-06 / 1515
Fed Ex Metals 3 JW	
R2 Steffler Fed Ex	1-31-06 / 1430
Julia Warratt Fed Ex	2/1/06 1000
Received By/Event	DATE / TIME
LABORATORY SECTION	DATE / TIME
Received By Julia Warratt	2/1/06 1000

REVIEWED BY: _____ DATE: _____
 PRINTSIGN NAME: _____

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WCH-SH-302 (06/24/2005)



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: <i>Carla Hughes</i>	Company Contact Denise A. Pitts and Henry W. Ruby	Telephone No. 531-1229	Project Coordinator Joan H. Kessner	Data Turnaround <i>standard</i>
Payroll #: <i>8C104</i>	Sampling Location <i>300 Area 3722 Bldg.</i>	SPECIAL INSTRUCTIONS All relevant COAs must be provided: <i>R37220 J451</i>		SAF No. RC-001
Type of Sample: <i>AIR</i>		ANALYSIS METHOD (SPECIFIC): <i>NIOSH 7300</i>		Method of Shipment <i>Fed Ex</i>
Shipped To: <i>DATAChem Salt Lake UT</i>	Wipe Sample Media: Ghost <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Other <i>1-30-06</i>	Bill of Lading/Air Bill No. <i>8544 9435 4704</i>		

POSSIBLE SAMPLE HAZARD/RI MARKS
Be, cadmium, Lead

Special Handling and/or Storage

MATRIX A - AIR WI - WIPE X - OTHER	Preservation (i.e., cooling required, etc.)	No	<i>OK 1-30-06</i>									
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SAMPLE ANALYSIS

SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area <small>cm²</small>	Comments	Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Lead Wipe	Cd Wipe	Cd Airborne	<i>OK 1-30-06</i>
<i>J11323</i>	<i>A</i>	<i>1-30-06</i>	<i>650</i>	<i>N/A</i>	<i>OK 1-30-06</i>	<i>X</i>	<i>X</i>					<i>X</i>	<i>OK 1-30-06</i>
<i>J10YFO</i>	<i>A</i>	<i>1-30-06</i>	<i>N/A</i>	<i>BLANK</i>	<i>OK 1-30-06</i>	<i>X</i>	<i>X</i>					<i>X</i>	<i>OK 1-30-06</i>
<i>J10YD9</i>	<i>A</i>	<i>1-30-06</i>	<i>N/A</i>	<i>BLANK</i>	<i>OK 1-30-06</i>	<i>X</i>	<i>X</i>					<i>X</i>	<i>OK 1-30-06</i>

COPY

FIELD SAMPLE COPY

OK 1-30-06

