

SAF-RC-001 Industrial Hygiene Sampling FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG 06I-0476-01 SAF-RC-001

Rad only X Chem only Rad & Chem

X Complete Partial

300 Area 333 Bldg

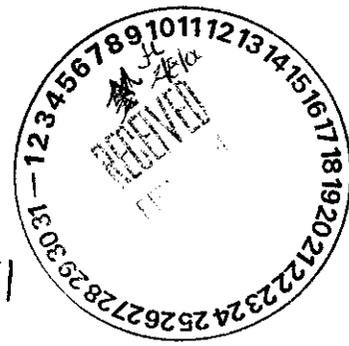
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Cover Page

Report Identification Number: 06I-0476-01
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF#: RC-001 / R3330J451 R33300 J451
Payroll#: 72570



Sample Information

Table with 6 columns: Sample Date, Customer Sample Number, Laboratory Sample Number, Method, Analytical Batch Identification, Sample Matrix. Contains 8 rows of sample data.

I certify that this electronic image and all hardcopies produced from this image accurately represent the data and are in compliance with the contract specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager or the Manager's designee.

Name: Lisa M. Reid
Title: Chemist
Date: February 08, 2006



Case Narrative Page

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General Set Information: There are 4 samples in set 06I-0475-01 and 8 samples in set 06I-0476-01. The samples were analyzed for cadmium, lead and beryllium on Ghost Wipe. 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 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 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 $\pm 10\%$.

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 Contract Required Detection Limits (CRDL) of 0.02 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.06 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 3. ug/sample.

Method Blank Analysis: No beryllium, cadmium or lead was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

Dilution(s): None

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 results were within the control limits of $\pm 20\%$. The Relative Percent Difference (RPD) between the LCS and the LCSD were within the control limit of 20%.

Replicate Analysis: One sample in this batch was replicated. 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



Report Page

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Customer Sample Number	Laboratory Sample Number	Date Analyzed	Beryllium µg/sample		Cadmium µg/sample		Lead µg/sample	
J113J2	06I03795	07 Feb 2006	<0.02	U	<0.1	U	<3.	U
J113J3	06I03796	07 Feb 2006	<0.02	U	<0.1	U	<3.	U
J113J8	06I03797	07 Feb 2006	<0.02	U	<0.1	U	<3.	U
J113J9	06I03798	07 Feb 2006	<0.02	U	<0.1	U	<3.	U
J113J4	06I03799	07 Feb 2006	0.064		0.71		3.3	
J113J5	06I03800	07 Feb 2006	0.076		0.26		3.3	
J113J6	06I03801	07 Feb 2006	0.082		2.2		6.4	
J113J7	06I03802	07 Feb 2006	0.090		0.73		5.7	
Limit of Detection (LOD)			0.02		0.1		3.	
Required Detection Limit (RDL)								

U - Parameter not detected above LOD.
 J - Parameter between LOD and RDL.

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Batch ID: G061600M

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-241017-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
BL-241017-1	MB	Cadmium	µg/sample	ND	NA	NA	NA	NA
BL-241017-1	MB	Lead	µg/sample	ND	NA	NA	NA	NA
QC-241017-1	LCS	Beryllium	µg/sample	11.6	NA	10.0	116.	NA
QC-241017-1	LCS	Cadmium	µg/sample	32.2	NA	30.0	107.	NA
QC-241017-1	LCS	Lead	µg/sample	101.	NA	100.	101.	NA
QD-241017-1	LCSD	Beryllium	µg/sample	11.7	11.6	10.0	117.	0.973
QD-241017-1	LCSD	Cadmium	µg/sample	31.6	32.2	30.0	105.	1.66
QD-241017-1	LCSD	Lead	µg/sample	101.	101.	100.	101.	0.933

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

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result - Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: CJ Williams Company Contact: Denise A. Patis and Henry W. Ruby Telephone No.: 531-1229		Project Coordinator: Joan H. Kessner SAF No.: RC-001 Method of Shipment: Fed Ex Bill of Lading/Air Bill No.: 8544 9435 4737		Data Turnaround: 24 hrs											
Payroll #: 7520 Type of Sample: WIPED Shipped To: Datachem SALT LAKE CITY UT POSSIBLE SAMPLE HAZARD/REMARKS: Sealed Pb Special Handling and/or Storage: N/A		SPECIAL INSTRUCTIONS: All relevant COAs must be provided: 233303451 ANALYSIS METHOD(S) (SPECIFIC): NIOSH 7360		Matrix: A - AIR, W1 - WIPE, X - OTHER Wipe Sample Media: Ghost <input checked="" type="checkbox"/> Yes, No <input type="checkbox"/> Preservation (i.e., cooling required, etc.):											
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or AREA (sq ft)	SAMPLE ANALYSIS											
				Asbestos Airborne	Lead Airborne	Beryllium Airborne	Metal	Lead Wipe	Cd Wipe	Cd Airborne	Other				
J11332	W1	2-2-06	Blank												
J11333			Blank												
J11338			100 cm ²												
J11339			↑												
J11334			↓												
J11335			↓												
J11336			↓												
J11337	W1	2-2-06	100 cm ²												

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WCH-SH-202 (08/29/2005)



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: <i>CJ Williams</i>	Company Contact Denise A. Pitts and Henry W. Ruby	Telephone No. 531-1229	Project Coordinator Joan H. Kessner	Data Turnaround <i>24 hrs</i>
Payroll #: <i>72520</i>	Sampling Location <i>300 area/333 B106</i>	SPECIAL INSTRUCTIONS All relevant COAs must be provided: <i>R33303451</i>		SAF No. RC-001
Type of Sample: <i>wipes</i>		ANALYSIS METHOD (SPECIFIC): <i>N105H 7300</i>		Method of Shipment <i>Fed Ex</i>
Shipped To: <i>Datachem</i> <i>Salt Lake City UT</i>	Wipe Sample Media: Ghost <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Other _____	Bill of Lading/Air Bill No. <i>8544 9435 4737</i>		

POSSIBLE SAMPLE HAZARD/RI MARKS <i>Be / Cd / Pb</i>	MATRIX A - AIR WI - WIPE X - OTHER	Preservation (i.e., cooling required, etc.)	No							
Special Handling and/or Storage <i>N/A</i>										

SAMPLE ANALYSIS

SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area <u> </u> cm ²	Comments	Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Lead Wipe	Cd Wipe	Cd Airborne
J113J2	<i>w1</i>	<i>2-2-06</i>	<i>Blank</i>	<i>CJW</i> <i>2-6-06</i>				<i>X</i>		<i>X</i>	<i>X</i>	
J113J3	<i>↑</i>	<i>↑</i>	<i>Blank</i>					<i>X</i>		<i>X</i>	<i>X</i>	
J113J8	<i>↑</i>	<i>↑</i>	<i>100 cm²</i>					<i>X</i>		<i>X</i>	<i>X</i>	
J113J9	<i>↑</i>	<i>↑</i>	<i>↑</i>					<i>X</i>		<i>X</i>	<i>X</i>	
J113J4	<i>↑</i>	<i>↑</i>	<i>↑</i>					<i>X</i>		<i>X</i>	<i>X</i>	
J113J5	<i>↑</i>	<i>↑</i>	<i>↑</i>					<i>X</i>		<i>X</i>	<i>X</i>	
J113J6	<i>↓</i>	<i>↓</i>	<i>↓</i>					<i>X</i>		<i>X</i>	<i>X</i>	
J113J7	<i>w1</i>	<i>2-2-06</i>	<i>100 cm²</i>					<i>X</i>		<i>X</i>	<i>X</i>	

COPY

FIELD SAMPLE COPY

Enter on line below the first Sample Number from Page One:

J11372

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

SIGN / PRINT NAMES / USE MILITARY TIME

Relinquished By/Stored	DATE / TIME	Received By/Stored	DATE / TIME
Cynthia Williams Cynthia Williams locked cabinet bldg 5746 Rm#16	2-2-06 / 1430	3746 B106 Rm 16 locked cabinet	2-2-06 / 1430
Goldie Malhan Goldie Malhan	02-06-06 / 1500 WCH	RZ Steffler R.Z. Steffler	2-6-06 / 1500
RZ Steffler R.Z. Steffler	2-6-06 / 1600	Fed Ex	
Relinquished By/Stored	DATE / TIME	Received By/Stored	DATE / TIME
Relinquished By/Stored	DATE / TIME	Received By/Stored	DATE / TIME
Relinquished By/Stored	DATE / TIME	Received By/Stored	DATE / TIME
Relinquished By/Stored	DATE / TIME	Received By/Stored	DATE / TIME
Relinquished By/Stored	DATE / TIME	Received By/Stored	DATE / TIME
Relinquished By/Stored	DATE / TIME	Received By/Stored	DATE / TIME
Relinquished By/Stored	DATE / TIME	Received By/Stored	DATE / TIME
LABORATORY SECTION	Received By	Title	DATE / TIME

REVIEWED BY: _____

DATE: _____

PRINT/SIGN NAME