

SAF-RC-040
300 Area D4 Waste Characterization
Sampling - Other Solid
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

No Distribution Required

KW 5/16/11
INITIAL/DATE

COMMENTS:

SDG D1110909 SAF-RC-040

Rad only

Chem only

Rad & Chem

Complete

Partial

Sample Location/Waste Site: Building 326



Report Identification Number: D1110909
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF#: RC-001 / RC-040-584
Sample Receipt Date: 04/19/2011

General Workorder Information: There are ten samples in workorder 1110908 and ten samples in workorder 1110909 which were analyzed for asbestos in bulk material. No problems were encountered with the receipt of this sample.

Method Summary: All samples were examined for homogeneity. Non-homogeneous samples were ground to ensure homogeneity. Distinct layers were analyzed separately. The samples were prepared and examined for asbestos fibers utilizing the procedures outlined in NIOSH method 9002 (4th edition). A polarizing light microscope equipped with a 10x and a 16x eyepiece was used for the analysis. The area percentage of asbestos was estimated microscopically by a visual estimation of the fibers with a length-to-width aspect ratio of 3:1 or greater. If present, asbestos identities were confirmed with the appropriate refractive index oils applying dispersion staining techniques.

Sample Preparation: All samples were prepared in accordance with NIOSH method 9002 (4th edition).

Initial and Continuing Calibration Verification Analysis: N/A

Initial and Continuing Calibration Blank Analysis: N/A

Method Blank Analysis: N/A

Dilution(s): N/A.

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) was prepared and analyzed with the sample batch. The results were within the control limit of +/- one reporting range.

Replicate Analysis: Two samples were replicated with this analysis batch.

Flagging Codes: None

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

Sample Calculation: Sample results are reported by a visual estimation of the area percentage of asbestos. If necessary, a gravimetric ashing procedure may be used to remove certain non-asbestos material from the sample; a percentage calculation is used to correct for the removal of the non-asbestos material.

Miscellaneous Comments:

- 1110908001: Gray, compacted floor tile.
- 1110908002: Gray, compacted cove base.
- 1110908003: White, powdery/fibrous drywall.
- 1110908004: Black, compacted material.
- 1110908005: Gray, compacted floor tile.
- 1110908006: Gray, compacted floor tile.
- 1110908007: Gray, compacted cove base.
- 1110908008: Black, compacted material.
- 1110908009: Gray, compacted floor tile.
- 1110908010: Gray, compacted floor tile.
- 1110909001: Gray, compacted floor tile.
- 1110909002: Black, compacted cove base.
- 1110909003: White, powdery drywall (asbestos found in joint compound).
- 1110909004: Brown, compacted paneling.
- 1110909005: Gray, fibrous insulation.
- 1110909006: Gray, fibrous insulation.
- 1110909007: Black, compacted cove base.
- 1110909008: Gray, compacted floor tile.
- 1110909009: White, powdery drywall.
- 1110909010: Yellow/gray, fibrous insulation.



Results

Report Identification Number: D1110909
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM
 SAF#: RC-001 / RC-040-584
 Sample Receipt Date: 04/19/2011

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %		Amosite %		Crocidolite %	
J1FXM7	1110909001	05/04/2011	<1	U	<1	U	<1	U
J1FXM8	1110909002	05/04/2011	<1	U	<1	U	<1	U
J1FXM9	1110909003	05/04/2011	<1	U	<1	U	<1	U
J1FXN0	1110909004	05/04/2011	<1	U	<1	U	<1	U
J1FXN1	1110909005	05/04/2011	<1	U	<1	U	<1	U
J1FXN2	1110909006	05/04/2011	<1	U	<1	U	<1	U
J1FXN3	1110909007	05/04/2011	<1	U	<1	U	<1	U
J1FXN4	1110909008	05/04/2011	<1	U	<1	U	<1	U
J1FXN5	1110909009	05/04/2011	<1	U	<1	U	<1	U
J1FXN6	1110909010	05/04/2011	<1	U	<1	U	<1	U
Required Detection Limit (RDL)			1		1		1	

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tremolite %		Anthophyllite %	
J1FXM7	1110909001	05/04/2011	<1	U	<1	U
J1FXM8	1110909002	05/04/2011	<1	U	<1	U
J1FXM9	1110909003	05/04/2011	<1	U	<1	U
J1FXN0	1110909004	05/04/2011	<1	U	<1	U
J1FXN1	1110909005	05/04/2011	<1	U	<1	U
J1FXN2	1110909006	05/04/2011	<1	U	<1	U
J1FXN3	1110909007	05/04/2011	<1	U	<1	U
J1FXN4	1110909008	05/04/2011	<1	U	<1	U
J1FXN5	1110909009	05/04/2011	<1	U	<1	U
J1FXN6	1110909010	05/04/2011	<1	U	<1	U
Required Detection Limit (RDL)			1		1	

U - Parameter not detected above LOD
 J - Parameter between LOD and RDL
 ** - Not provided or unable to calculate
 NA - Not Applicable



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QC Summary

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Report Identification Number: D1110909
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF: RC-001 / RC-040-584
Sample Receipt Date: 04/19/2011

Batch ID: 65678

QC Sample ID	QC Type	Analyte	Units	Result	Target
QC107918	LCS	Anthophyllite	%	ND	ND
QC107918	LCSD	Anthophyllite	%	ND	ND
QC107918	LCS	Chrysotile	%	5	13
QC107918	LCSD	Chrysotile	%	10	13

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. = $(\text{Result} / \text{Target}) * 100.0$

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

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

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

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



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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-040-584		Page 1 of 2	
Collector Innovative/Repro	Company Contact Mike Samkovich	Telephone No. 5094307142	Project Coordinator KESSNER, JH	Price Code 9K	Data Turnaround 7 Days
Project Designation 300 Area DA Waste Characterization Sampling - Other Solid	Sampling Location Building 326	Field Logbook No. EL-1518-18	SAF No. RC-040		
Site Chest No. WCD000002 - 12A - 4/8/11	COA RDM0002P00	Method of Shipment Hand Delivered - Fed Ex	Bill of Lading/Air Bill No. 444-41-4-9-11	7946 6521 1976	
Shipped To 414-4-18-11		Offsite Property No. NA			
POSSIBLE SAMPLE HAZARD/REMARKS Asbestos					
Special Handling and/or Storage None					
SAMPLE ANALYSIS					
Sample No.	Matrix *	Sample Date	Sample Time	Preservation	None
J1FXM7	OTHER SOLID	4-8-11	0813	GP	
J1FXM8	OTHER SOLID		0815		
J1FXM9	OTHER SOLID		0817		
J1FXND	OTHER SOLID		0830		
J1FXN1	OTHER SOLID		0832		
CHAIR OF POSSESSION					
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	SPECIAL INSTRUCTIONS	
None	4-8-11 1310	MGRTN	4/8/11 1310	None	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	Client # 98542	
None	4-8-11 1400	MGRTN	4/8/11 1400	Quote # MAD2013	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	SDG # 11/15/11	
None	4-8-11 1400	MGRTN	4/8/11 1400	Report # 11/15/11	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	REVISED	
None	4-8-11 1400	MGRTN	4/8/11 1400	DATE 4-8-11	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	REVISED	
None	4-8-11 1400	MGRTN	4/8-11 1400	DATE 4-8-11	
LABORATORY SECTION	Received By	Title		REVISED	
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By		DATE 4-8-11	



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2011-04-19-1110809-02

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-040-584	Page 2 of 2
Collector Inions/Demos/Repko	Company Contact Mike Stanokovich	Telephone No. 5094307142	Project Coordinator KESSNER, JH	Price Code 9K	Data Turnaround 7 Days
Project Designation 300 Area D4 Waste Characterization Sampling - Other Solid	Sampling Location Building 326	Field Logbook No. EL151818	SAF No. RC-040		
Ice Chest No. WCA0800002-02A	Shipped To 44-418-11	Offsite Property No. NA	Method of Shipment Fed Ex		
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos	Asbestos bulk - MOSH 9002	COA RDAM002P00	Bill of Lading/Air Bill No. NA 44-418-11	7944 6527 1976	
Special Handling and/or Storage None	Preservation None	Type of Container GIP	No. of Container(s) 1	Volume 60g	
SAMPLE ANALYSIS					
Sample No.	Matrix *	Sample Date	Sample Time	Received By/Stored In	Date/Time
J1FXN2	OTHER SOLID	4-8-11	0834	X	MGRV/GAR 4-8-11
J1FXN3	OTHER SOLID		0838	X	MGRVK
J1FXN4	OTHER SOLID		0840	X	MGRXL
J1FXN5	OTHER SOLID		0845	X	MGRVW
J1FXN6	OTHER SOLID		0847	X	MGRVZ
CHAIN OF POSSESSION					
Requisitioned By/Removed From	Date/Time	Received By/Stored In	Date/Time	SPECIAL INSTRUCTIONS	Matrix *
Wendy...	4-8-11 1310	MGRV...	4/8/11 1318	None	
Requisitioned By/Removed From	Date/Time	Received By/Stored In	Date/Time		
Wendy...	4-8-11	MGRV...	4-8-11		
Requisitioned By/Removed From	Date/Time	Received By/Stored In	Date/Time		
Wendy...	4-8-11	MGRV...	4-8-11		
Requisitioned By/Removed From	Date/Time	Received By/Stored In	Date/Time		
Wendy...	4-8-11	MGRV...	4-8-11		
Requisitioned By/Removed From	Date/Time	Received By/Stored In	Date/Time		
Wendy...	4-8-11	MGRV...	4-8-11		
Requisitioned By/Removed From	Date/Time	Received By/Stored In	Date/Time		
Wendy...	4-8-11	MGRV...	4-8-11		
LABORATORY SECTION	Received By MGRV...	Title			
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By			

REVIEWED BY
DATE 4-8-11

SDG# MGRVZ
LOT # 2100-11/19/11
J1D060413

REVIEWED BY
DATE 4/8/11