

**SAF-RC-107**  
**100-H Remaining Sites Burial Grounds –**  
**Soil Full Protocol**  
**FINAL DATA PACKAGE**

**COMPLETE COPY OF DATA PACKAGE TO:**

Kathy Wendt H4-21

KW 6/30/11  
INITIAL/DATE

**COMMENTS:**

**SDG D1116832**

**SAF-RC-107**

Rad only

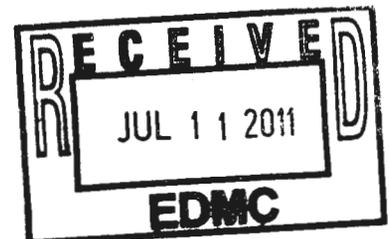
Chem only

Rad & Chem

Complete

Partial

**Waste Site: 128-H-1 Verification resample**





# Cover



Report Identification Number: D1116832  
 Subcontract Number: S003827A00  
 Name of Industrial Hygienist: Debbie Gothard / Ken Way / Wil Lohman  
 Laboratory Identification Number: DCHM *RC-107-081 6/24/11*  
 SAF#: ~~RC-001~~ / RC-107-081  
 Sample Receipt Date: 06/17/2011

### Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
06/16/2011	J1JVX3	1116832001	NIOSH 9002	68443	Bulk

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Name: Peter P. Steen  
 Title: Chemist  
 Date: June 23, 2011





# Case Narrative

Report Identification Number: D1116832  
Subcontract Number: S003827A00  
Name of Industrial Hygienist: Debbie Gothard / Ken Way / Wil Lohman  
Laboratory Identification Number: DCHM  
SAF#: RC-001 / RC-107-081  
Sample Receipt Date: 06/17/2011

**General Workorder Information:** There is one sample in workorder 1116763 and one sample in workorder 1116832 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 (4<sup>th</sup> 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 (4<sup>th</sup> 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:** One sample was 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.



# Case Narrative

**Miscellaneous Comments:**

1116763001: Yellow/brown, fibrous/granular insulation.

1116832001: Brown, granular soil.



# Results

Report Identification Number: D1116832  
 Subcontract Number: S003827A00  
 Name of Industrial Hygienist: Debbie Gothard / Ken Way / Wil Lohman  
 Laboratory Identification Number: DCHM  
 SAF#: RC-001 / RC-107-081  
 Sample Receipt Date: 06/17/2011

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %	Amosite %	Crocidolite %
J1JVX3	1116832001	06/23/2011	<1   U	<1   U	<1   U
Limit of Detection (LOD)			NA	NA	NA
Required Detection Limit (RDL)			1	1	1

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tremolite %	Anthophyllite %
J1JVX3	1116832001	06/23/2011	<1   U	<1   U
Limit of Detection (LOD)			NA	NA
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



# QC Summary

Report Identification Number: D1116832  
 Subcontract Number: S003827A00  
 Name of Industrial Hygienist: Debbie Gothard / Ken Way / Wil Lohman  
 Laboratory Identification Number: DCHM  
 SAF: RC-001 / RC-107-081  
 Sample Receipt Date: 06/17/2011

Batch ID: 68443

QC Sample ID	QC Type	Analyte	Units	Result	Target
QC107990	LCS	Amosite	%	ND	ND
QC107990	LCSD	Amosite	%	ND	ND
QC107990	LCS	Chrysotile	%	10	20
QC107990	LCSD	Chrysotile	%	20	20

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

COC



1116832

rd

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-107-081

Page 1 of 1

Collector Q. Stowe	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code SW 6/11, 8L, 88	Data Turnaround 6/15/11, 21 Days
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location 128-H-1 Verification resample	SAF No. RC-107			
Ice Chest No. WCH-11-050	Field Logbook No. EL 1627-05	COA 0128H12000	Method of Shipment A3 6-16-11 Government Vehicle/FedEx		

Shipped To ALS Laboratories - Salt Lake City	Offsite Property No. NA	Bill of Lading/Air Bill No. 79 72 1427 6986
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POSSIBLE SAMPLE HAZARDS/REMARKS None	Preservation	None
	Type of Container	GP
	No. of Container(s)	1
	Volume	250ml 500 ml 500 ml (1.5)
Special Handling and/or Storage None		
SAMPLE ANALYSIS		Asbestos - Bulk - NIOSH 9002

Sample No.	Matrix *	Sample Date	Sample Time	
J1JVX3	SOIL	6-16-11	1045	X

CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS	Matrix *		
Relinquished By/Removed From Galaxy Stowe	Date/Time 6/16/11 1100	Received By/Stored In D. Newman	Date/Time 6-16-11 1100				S-Soil SP-Sediment SO-Solid SL-Sludge W-Water O-Other A-Air DS-Dry-Solids DL-Dry-Liquids T-Tissue WP-Wipe L-Liquid V-Vegetation X-Other
Relinquished By/Removed From D. Newman	Date/Time 6-16-11 1130	Received By/Stored In D. DOLBERG	Date/Time 6-16-11 1130				
Relinquished By/Removed From D. Newman	Date/Time 6-16-11 1220	Received By/Stored In A. Freier	Date/Time 6-16-11 1220				
Relinquished By/Removed From A. Freier	Date/Time 6-16-11 1230	Received By/Stored In Fed Ex	Date/Time				
Relinquished By/Removed From [Signature]	Date/Time 6/17/11 1129	Received By/Stored In [Signature]	Date/Time 6/17/11 1129				
Relinquished By/Removed From [Signature]	Date/Time 6/17/11 1129	Received By/Stored In [Signature]	Date/Time 6/17/11 1129				

LABORATORY SECTION	Received By [Signature]	Title	Date/Time 6/17/11 1129
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

