

SAF-RC-006
100-N Ancillary Facilities & 190-DR
Other Solid Sampling for ERDF Waste
Designation
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kevin Finucane	X5-50	<u>KW 9/14/09</u> INITIAL/DATE
Mike Stankovich	X5-50	<u>KW 9/14/09</u> INITIAL/DATE

COMMENTS:**SDG DC0909172****SAF-RC-006**

Rad only

 Chem only

Rad & Chem

 Complete

Partial

Waste Site(s): 1902-D

RECEIVED
 SEP 21 2009

EDMC



RECEIVED
SEP 10 2009

Submitted To: Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland WA 99354

Test Report
Page 1 of 2
9/9/09

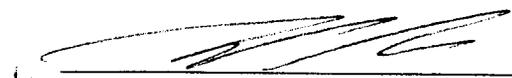
REFERENCE DATA

Sample Type:	Asbestos by TEM with Gravimetric Reduction
Method Reference:	Nonfriable Bulk Material with Organic Binder
Client Sample Nos.:	EPA/600/R-93/116, Chatfield Method
Sample Location:	J19507 through J19508- A
PO No.:	1902-D
ALS Work Order No.:	N/A
ALS Sample Nos.:	DC0909172
Sample Receipt Date:	0909172-01 through 0909172-02
Preparation Date:	8/19/09
Analysis Date:	9/1/09 – 9/3/09
	9/4/09

We certify that the samples indicated on the following data sheet(s) were analyzed by Transmission Electron Microscopy (TEM) for asbestos using the method, EPA/600/R-93/116, Chatfield Method, for determining the amount and type of asbestos present in bulk building materials.

After an initial examination by stereomicroscope to determine homogeneity, friability, matrix material and other characteristics, we prepared the samples using gravimetric reduction. Coarse, non-asbestos materials that cannot be pulverized, such as pebbles or metal foils, were separated from the portion analyzed. Other non-asbestos material was removed by ashing in a muffle furnace and/or dissolution in decalcifying solution. Sample weights were tracked through each step in the reduction.

Analysis was performed on a Philips CM-12 TEM and EDAX Genesis System using energy dispersive X-ray analysis (EDXA) spectra and selected area electron diffraction (SAED) patterns to determine fiber species. Asbestos percentages are based on a visual estimate of the asbestos percent by area in the final residue and are listed on the following data sheet(s). Results apply only to portions of samples analyzed. ALS Laboratory Group Environmental Division (Cincinnati) will dispose of all bulk samples after 60 days unless other arrangements are made.


Pamela Johnson
Analyst


Anna Marie Ristich
Section Manager

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CLIENT: Washington Closure Hanford
SAMPLE LOCATION: 1902-D

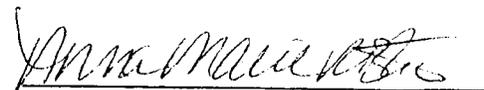
ANALYSIS DATA

Calibration Date: 7/9/2009 Magnification: 10,500 X
 EDXA Resolution: 157.5 eV Calibration Constant: 1 cm = 0.97 μm
 Accelerating Voltage: 100 keV Camera Constant: 31.97 mm-Å

SAMPLE IDENTIFICATION					
Client Sample No.:	J19507-A	J19508-A			
ALS Sample No.:	0909172-01	0909172-02			
SAMPLE DESCRIPTION					
Homogeneity:	Homog.	Homog.			
Color:	Grey	Grey			
Texture:	Resinous	Resinous			
Description:	Paint	Paint			
SAMPLE PREP					
Starting Weight (g):	0.5401	1.1738			
Residue Weight (g):	0.3086	0.8510			
Weight Percent Residue:	57.14	72.50			
PERCENT ASBESTOS DETECTED IN RESIDUE					
Chrysotile:	0	0			
Amosite:	0	0			
Crocidolite:	0	0			
Actinolite-Tremolite:	2.6	1.1			
Anthophyllite:	0	0			
TOTAL IN RESIDUE	2.6	1.1			
ASBESTOS PERCENT IN SAMPLE					
	1.5	0.8			

ND = None Detected TRACE = <1%


 Pamela Johnson
 Analyst


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