

**SAF-RC-040**  
**300 Area D&D Waste Characterization**  
**Sampling - Other Solid**  
**FINAL DATA PACKAGE**

**COMPLETE COPY OF DATA PACKAGE TO:**

Renee Nielson L1-01

KW 4/30/07  
INITIAL/DATE

**COMMENTS:**

**SDG 07-A-2161**

**SAF-RC-040**

Rad only

Chem only

Rad & Chem

Complete

Partial

**Sample Location/Waste Site: 3709 Building**

**RECEIVED**  
MAY 03 2007

**EDMC**



4/26/07  
Page 1 of 2

**SUBMITTED TO:**

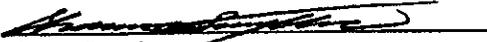
Joan Kessner  
Washington Closure Hanford  
2620 Fermi Avenue, MSIN H4-21  
Richland, WA 99354

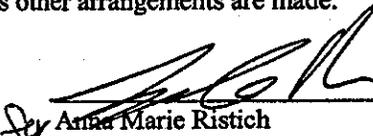


**REFERENCE DATA:**

Client Sample No.:	J15207 through J15211
P.O. No.:	Not Available
Sample Location:	300 Area/3709 Building
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-2161
DCL Sample ID No.:	07-12956 through 07-12959
Sample Receipt Date:	4/25/07
Analysis Date:	4/26/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy\*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.

  
Shawn Smythe  
Analyst

  
Anna Marie Ristich  
Reviewer

\*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government..

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RC-040

4/26/07

**DataChem Laboratories  
Polarized Light Microscopy  
Asbestos Analytical Report**

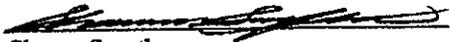
Client: Washington Closure Hanford  
Location: 300 Area/3709 Building  
Set ID: 07-A-2161

Client Sample ID:	J15207	J15208	J15209	J15211
DCL Sample ID:	07-12956	07-12957	07-12958	07-12959
<b>Macroscopic Examination</b>				
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Homog.
	Inseparable	Inseparable	Inseparable	
Color:	Yellow/Tan	Yellow/Tan	Yellow/Tan	Tan
Texture:	Fibrous	Fibrous	Fibrous	Fibrous
Description:	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM
<b>Asbestiform Minerals</b>				
% Chrysotile:				
% Amosite:				
% Crocidolite:				
% Tremolite - Actinolite:				
% Anthophyllite:				
% Total Asbestos:	ND	ND	ND	ND
<b>Other Materials</b>				
% Cellulose:	>10 ≤ 20	>10 ≤ 20	>10 ≤ 20	
% Fiberglass:	>60 ≤ 70	>60 ≤ 70	>60 ≤ 70	
% Other Fibers:				>90 ≤ 100
% Resin/Binder:				
% Non Fibrous:	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	>1 ≤ 3

ND = None Detected Trace = <1%

Special Prep Procedures: None.

\*Notes: P. O. #: Not Available.

  
Shawn Smythe  
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-265		Page 1 of 1		
Collector Mike Stankovich/Duane Jacques		Company Contact Duane Jacques		Telephone No. 430-5466		Project Coordinator KESSNER, JH		Price Code <b>9K</b> <b>9A</b> <b>see 4/24/07</b>		
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 3709 Building		SAF No. RC-040		Data Turnaround <b>5/7 Days</b>				
Ice Chest No. <b>FED EX BOX</b>		Field Logbook No. EL-1518-7		COA See below		Method of Shipment Federal Express				
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. <b>A070263</b>		Bill of Lading/Air Bill No. See OSPC						
POSSIBLE SAMPLE HAZARDS/REMARKS <i>Asbestos Beryllium</i> <b>4/24/07</b>				Preservation	None					
Special Handling and/or Storage				Type of Container	G/P					
				No. of Container(s)	1					
				Volume	5g					
SAMPLE ANALYSIS <b>07-A-2161</b>				Asbestos-BULK-EPA						
Sample No.	07-	Matrix *	Sample Date	Sample Time						
J15207	12950	OTHER SOLID	4-24-07	0900	Y					
J15208	12957	OTHER SOLID		0905	X					
J15209	12958	OTHER SOLID		0910	X					
J15211	12959	other sol. @	✓	1000	X					
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Sampling COA - R37090 1300		
<i>M. Stankovich</i>		4/24/07 1100		<i>M. Stankovich</i>		4-24-07 1100				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				
<i>M. Stankovich</i>		4-24-07 1100		FED EX						
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Matrix * S=Soil SE=Sediment SO=Solid SI=Sedg W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue W=Wipe L=Liquid V=Vegetation X=Other		
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				
LABORATORY SECTION	Received By		<i>K. Orum</i>		Title		Date/Time <b>4/25/07 1058</b>			
FINAL SAMPLE DISPOSITION	Disposal Method				Disposed By		Date/Time			