

**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:**

Dave Encke	X5-50	<u>KW 8/27/2007</u> INITIAL/DATE
Amy Hood	X5-50	<u>KW 8/27/2007</u> INITIAL/DATE
Tom Edmundson	X5-50	<u>KW 8/27/2007</u> INITIAL/DATE

**COMMENTS:**

**SDG 07-A-4704**                      **SAF-RC-006**

Rad only               Chem only              Rad & Chem  
 Complete              Partial

**Waste Site(s): MO-766/MO-390 Potential Asbestos**

**RECEIVED**  
SEP 04 2007  
**EDMC**



**SUBMITTED TO:**

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

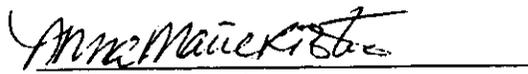


**REFERENCE DATA:**

Client Sample No.:	J15HK5 through J15HK6
P.O. No.:	Not Available
Sample Location:	MO-766/MO-390 Potential Asbestos
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-4704
DCL Sample ID No.:	07-27117 through 07-27118
Sample Receipt Date:	8/23/07
Analysis Date:	8/23/07

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

Client: Washington Closure Hanford  
Location: MO-766/MO-390 Potential Asbestos  
Set ID: 07-A-4704

Client Sample ID:	J15HK5	J15HK6
DCL Sample ID:	07-27117	07-27118
<b>Macroscopic Examination</b>		
Accepted/Rejected:	Accepted	Accepted
Homogeneity:	Heterog.	Homog.
Color:	Black/Grey	Tan
Texture:	Rbby/Crmb/Fbrs	Fibrous
Description:	Material	Material
Analysis:	PLM	PLM
<b>Asbestiform Minerals</b>		
% Chrysotile:		
% Amosite:		
% Crocidolite:		
% Tremolite - Actinolite:		
% Anthophyllite:		
<b>% Total Asbestos:</b>	ND	ND
<b>Other Materials</b>		
% Cellulose:	>10 ≤ 20	>80 ≤ 90
% Fiberglass:		
% Other Fibers:		
% Resin/Binder:	>5 ≤ 10	
% Non Fibrous:	>60 ≤ 70	>5 ≤ 10

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-006-148		Page 1 of 1		
Collector Amy Hood/Tom Edmundson		Company Contact J. Crocker		Telephone No. 376-4058		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround		
Project Designation 100-N Ancillary Facilities & 190-DR Other Solid Sampling f		Sampling Location MO-766/MO-390 Potential Asbestos				SAF No. RC-006		7 Days TUE 8-21-07 / Day		
Ice Chest No. FEDEX BOX		Field Logbook No. EL-1516-11		COA RD4MXX2F00		Method of Shipment Fed Ex				
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070305				Bill of Lading/Air Bill No. SEE OSPC				
POSSIBLE SAMPLE HAZARDS/REMARKS N/A					Preservation	None				
Special Handling and/or Storage N/A 07-A-4704					Type of Container	GP				
					No. of Container(s)	1				
					Volume	5g				
SAMPLE ANALYSIS					Asbestos- BULK-EPA					
Sample No.	07-	Matrix *	Sample Date	Sample Time						
J15HK5	27117	OTHER SOLID	8-21-07	1544	✓					
J15HK6	27118	OTHER SOLID	8-21-07	1532	✓					
CHAIN OF POSSESSION					SPECIAL INSTRUCTIONS				Matrix *	
Relinquished By/Removed From JRE Edmundson			Date/Time 8-21-07 1630		Received By/Stored In 372843A			Date/Time 8-21-07 1630		<ul style="list-style-type: none"> <li>S=Soil</li> <li>SE=Sediment</li> <li>SO=Solid</li> <li>SI=Sludge</li> <li>W=Water</li> <li>O=Oil</li> <li>A=Air</li> <li>DS=Drum Solids</li> <li>DL=Drum Liquids</li> <li>T=Time</li> <li>WI=Wipe</li> <li>L=Liquid</li> <li>V=Vegetation</li> <li>X=Other</li> </ul>
Relinquished By/Removed From 372843A			Date/Time 8-22-07 0830		Received By/Stored In W/Singler			Date/Time 8-22-07 0830		
Relinquished By/Removed From WCH			Date/Time 8-22-07 1500		Received By/Stored In FEDEX			Date/Time 8-22-07 1500		
Relinquished By/Removed From F. S. ...			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		Title		Date/Time	
FINAL SAMPLE DISPOSITION					Disposal Method		Disposed By		Date/Time	
									8/23/07 / 0943	