

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

**COMPLETE COPY OF DATA PACKAGE TO:**

Mike Stankovich      L1-01      KW 8/23/07  
INITIAL/DATE

**COMMENTS:**

**SDG 07-A-4664                      SAF-RC-040**

Rad only               Chem only              Rad & Chem  
 Complete              Partial

**Sample Location/Waste Site: 384 Building**

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



8/22/07  
Page 1 of 3

**SUBMITTED TO:**

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



**REFERENCE DATA:**

Client Sample No.:	J15F37 through J15HJ8
P.O. No.:	Not Available
Sample Location:	384 Building
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-4664
DCL Sample ID No.:	07-26759 through 07-26767
Sample Receipt Date:	8/22/07
Analysis Date:	8/22/07

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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513 733-5336, FAX 513 733-5347

WEST COAST OFFICE  
11 SANTA YORMA COURT  
NOVATO, CALIFORNIA 94945  
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**DataChem Laboratories  
Polarized Light Microscopy  
Asbestos Analytical Report**

Client: Washington Closure Hanford  
Location: 384 Building  
Set ID: 07-A-4664

Client Sample ID:	J15F37	J15F38	J15F39	J15F40	J15HJ4
DCL Sample ID:	07-26759	07-26760	07-26761	07-26762	07-26763
<b>Macroscopic Examination</b>					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.	Homog.
Color:	Tan	Tan	Grey	Tan	Tan
Texture:	Crumbly	Crumbly	Crumbly	Crumbly	Crumbly
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
<b>Asbestiform Minerals</b>					
% Chrysotile:					
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
<b>% Total Asbestos:</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<b>Other Materials</b>					
% Cellulose:					
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:					
% Non Fibrous:	>90 ≤ 100	>90 ≤ 100	>90 ≤ 100	>90 ≤ 100	>90 ≤ 100

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.

8/22/07

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

Client: Washington Closure Hanford  
Location: 384 Building  
Set ID: 07-A-4664

Client Sample ID:	J15HJ5	J15HJ6	J15HJ7	J15HJ8
DCL Sample ID:	07-26764	07-26765	07-26766	07-26767
<b>Macroscopic Examination</b>				
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.
Color:	Grey	Yellow	Yellow	Yellow
Texture:	Crumbly	Fibrous	Fibrous	Fibrous
Description:	Material	Insulation	Insulation	Insulation
Analysis:	PLM	PLM	PLM	PLM
<b>Asbestiform Minerals</b>				
% Chrysotile:				
% Amosite:				
% Crocidolite:				
% Tremolite - Actinolite:				
% Anthophyllite:				
<b>% Total Asbestos:</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<b>Other Materials</b>				
% Cellulose:				
% Fiberglass:		>80 ≤ 90	>80 ≤ 90	>80 ≤ 90
% Other Fibers:				
% Resin/Binder:				
<b>% Non Fibrous:</b>	<b>&gt;90 ≤ 100</b>	<b>&gt;5 ≤ 10</b>	<b>&gt;5 ≤ 10</b>	<b>&gt;5 ≤ 10</b>

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.

07-A-4664

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-323 Page 1 of 2		
Collector Mike Stankovich		Company Contact Mike Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH	Price Code 9K	Data Turnaround 7 Days
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 384 Building		SAF No. RC-040				
Ice Chest No. FED EX		Field Logbook No. EL-1518-8		COA See below		Method of Shipment Federal Express		
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070304		Bill of Lading/Air Bill No. See OSPC				
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos			Preservation	None				
Special Handling and/or Storage			Type of Container	GP				
			No. of Container(s)	1				
			Volume	5g				
SAMPLE ANALYSIS			Asbestos-BULK-EPA					
Sample No.	Matrix *	Sample Date	Sample Time					
J15F37	26759	8-21-07	0830	X				
J15F38	26760		0835	X				
J15F39	26761		0840	X				
J15F40	26762		0845	X				
J15HJ4	26763		0850	X				
CHAIN OF POSSESSION			Sign/Print Names		SPECIAL INSTRUCTIONS			Matrix *
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00	S-Soil
M. Stankovich		8/21/07 1030	M. Stankovich		8-21-07 1030		Sampling COA - R38400 1000	SE=Settling
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time			SO=Solid
M. Stankovich		8-21-07 1500	FED EX					SL=Sludge
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time			W=Water
FED EX			J. [Signature]		8/22/07 0956			O=Oil
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time			A=Air
								DS=Drum Solids
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time			DL=Drum Liquids
								T=Trash
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time			WI=Wipe
								L=Liquid
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time			V=Vegetation
								X=Other
LABORATORY SECTION	Received By		Title		Date/Time			
	[Signature]		8/22/07		0936			
FINAL SAMPLE DISPOSITION	Disposal Method		Disposed By		Date/Time			

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-323	Page 2 of 2	
Collector Mike Stankovich		Company Contact Mike Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH	Price Code 9K	Data Turnaround
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 384 Building		SAF No. RC-040		7 Days		
Ice Chest No. FED EX		Field Logbook No. EL-1518-8		COA see below				Method of Shipment Federal Express
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A 070304				Bill of Lading/Air Bill No. See OSPC		
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos		Preservation	None					
Special Handling and/or Storage		Type of Container	G/P					
		No. of Container(s)	1					
		Volume	5g					
SAMPLE ANALYSIS			Asbestos-BULK-EPA					
Sample No.	Matrix *	Sample Date	Sample Time					
J15HJ5	26764	OTHER SOLID	8-21-07	0855	X			
J15HJ6	26765	OTHER SOLID		0915	T			
J15HJ7	26766	OTHER SOLID		0920	T			
J15HJ8	26767	OTHER SOLID	V	0925	T			
CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS				Matrix *
Relinquished By/Removed From M Stankovich		Date/Time 9/2/07		Received By/Stored In KMSingleton		Date/Time 8-21-07		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2FD0
Relinquished By/Removed From KMSingleton		Date/Time 8-21-07 1500		Received By/Stored In FED EX		Date/Time		Sampling COA - R38400 1000
Relinquished By/Removed From FED EX		Date/Time		Received By/Stored In		Date/Time		S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air OS=Organic Solids DL=Organic Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		0936
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	8/22/07	Title	0936	Date/Time			
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time					