

0074413

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

COMPLETE COPY OF DATA PACKAGE TO:

Tim Lee L1-07

KW 11/15/2007
INITIAL/DATE

COMMENTS:

SDG 07-A-6378 SAF-RC-040

Rad only Chem only Rad & Chem

Complete Partial

Sample Location/Waste Site: 323 Asbestos

RECEIVED
NOV 20 2007
EDMC



11/14/07
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.:	J15W62 through J15W68
P.O. No.:	Not Available
Sample Location:	323
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-6378
DCL Sample ID No.:	07-36951 through 07-36957
Sample Receipt Date:	11/8/07
Analysis Date:	11/14/07

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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NOVATO, CALIFORNIA 94945
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**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**

Client: Washington Closure Hanford
Location: 323
Set ID: 07-A-6378

Client Sample ID:	J15W62	J15W62	J15W63*	J15W64*	J15W65*
DCL Sample ID:	07-36951A	07-36951B	07-36952	07-36953	07-36954
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Homog.	Homog.	Homog.
Color:	Grey	Tan	Grey	Grey	Grey
Texture:	Compact	Crumbly	Crumbly	Crumbly	Crumbly
Description:	Tile	Mastic	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:					
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	ND	ND
Other Materials					
% Cellulose:					
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:	>10 ≤ 20	>70 ≤ 80			
% Non Fibrous:	>70 ≤ 80	>10 ≤ 20	>90 ≤ 100	>90 ≤ 100	>90 ≤ 100

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available. Results for sample numbers J15W63, J15W64 and J15W65 do not include paint chips found with the samples. Paint cannot be analyzed by PLM, TEM analysis is required.


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.

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

Client: Washington Closure Hanford
Location: 323
Set ID: 07-A-6378

Client Sample ID:	J15W66*	J15W67	J15W68
DCL Sample ID:	07-36955	07-36956	07-36957
Macroscopic Examination			
Accepted/Rejected:	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.
Color:	Grey	Grey	Yellow
Texture:	Crumbly	Crumbly	Fibrous
Description:	Material	Material	Insulation
Analysis:	PLM	PLM	PLM
Asbestiform Minerals			
% Chrysotile:			
% Amosite:			
% Crocidolite:			
% Tremolite - Actinolite:			
% Anthophyllite:			
% Total Asbestos:	ND	ND	ND
Other Materials			
% Cellulose:		>1 ≤ 3	
% Fiberglass:			>90 ≤ 100
% Other Fibers:			
% Resin/Binder:			
% Non Fibrous:	>90 ≤ 100	>90 ≤ 100	>1 ≤ 3

ND = None Detected Trace = <1%

Special Prep Procedures: None.

* Notes: P. O. #: Not Available. Result for sample number J15W66 does not include paint chips found with the sample. Paint cannot be analyzed by PLM, TEM analysis is required.


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-040-335		Page 1 of 2		
Collector Tim Lee		Company Contact Tim Lee		Telephone No. 627-8639		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days		
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 323 <i>Asbestos</i>		SAF No. RC-040						
Ice Chest No. <i>FED EX BOX</i>		Field Logbook No. <i>EL-1403-2</i>		COA <i>R323001000</i>		Method of Shipment Federal Express				
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. <i>A080051</i>				Bill of Lading/Air Bill No. See OSPC				
POSSIBLE SAMPLE HAZARDS/REMARKS <i>Asbestos</i>		Preservation None		Type of Container G/P		No. of Container(s) 1		Volume 5g		
Special Handling and/or Storage										
SAMPLE ANALYSIS <i>07.A-6378</i>		Asbestos-BULK-EPA								
Sample No. <i>07</i>	Matrix *	Sample Date	Sample Time							
J15W62 <i>36951</i>	OTHER SOLID	<i>11/7/07</i>	<i>900</i>	<i>X</i>						
J15W63 <i>36952</i>	OTHER SOLID	<i>11/7/07</i>	<i>905</i>	<i>X</i>						
J15W64 <i>36953</i>	OTHER SOLID	<i>11/7/07</i>	<i>910</i>	<i>X</i>						
J15W65 <i>36954</i>	OTHER SOLID	<i>11/7/07</i>	<i>915</i>	<i>X</i>						
J15W66 <i>36955</i>	OTHER SOLID	<i>11/7/07</i>	<i>920</i>	<i>X</i>						
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS				
Relinquished By/Removed From <i>T.A. Lee</i>		Date/Time <i>11/16/07:950</i>		Received By/Stored In <i>3728 2B</i>		Date/Time <i>11/7/07:950</i>		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00		Matrix *
Relinquished By/Removed From <i>3728 2B</i>		Date/Time <i>11-7-07 1240</i>		Received By/Stored In <i>MMSingletary</i>		Date/Time <i>11-7-07 1240</i>		<i>samples from 3728 Ref # 2B 3728 Custodian removed samples for shipping on 11/7/07 Sampler unavailable to relinquish</i> <i>1608</i>		<ul style="list-style-type: none"> S=Soil SE=Settlement SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Dross Solids DL=Dross Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other
Relinquished By/Removed From <i>MMSingletary</i>		Date/Time <i>11-7-07 1500</i>		Received By/Stored In <i>FED EX</i>		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				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				
LABORATORY SECTION		Received By <i>[Signature]</i>		Title		Date/Time				
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time				

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-335	Page 2 of 2	
Collector Tim Lee		Company Contact Tim Lee		Telephone No. 627-8639		Project Coordinator KESSNER, JH	Price Code 9K	Data Turnaround 7 Days
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 323 <i>Asbestos</i>		SAF No. RC-040				
Ice Chest No. <i>FED EX BOX</i>		Field Logbook No. <i>EL 1603-2</i>	COA <i>2323001000</i>		Method of Shipment Federal Express			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. <i>A000031</i>			Bill of Lading/Air Bill No. See OSPC			
POSSIBLE SAMPLE HAZARDS/REMARKS <i>Asbestos</i>		Preservation	None					
Special Handling and/or Storage		Type of Container	G/P					
		No. of Container(s)	1					
		Volume	5g					
SAMPLE ANALYSIS			Asbestos-BULK-EPA					
				<i>6378</i>				
Sample No.	Matrix *	Sample Date	Sample Time					
J15W67	<i>36950</i>	OTHER SOLID	<i>11/7/07</i>	<i>9:30</i>	X			
J15W68	<i>36952</i>	OTHER SOLID	<i>11/7/07</i>	<i>9:35</i>	X			
J15W69	OTHER SOLID	R for 4/2/07						
J15W70	OTHER SOLID	R for 4/2/07						
J15W71	OTHER SOLID	R for 11/7/07						
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix *
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 <i>samples from 3728 Ref # 28</i> <i>3728 Custodian removed samples for shipping on 11/7/07.</i> <i>Sampler unavailable to relinquish</i>
<i>JA Leadworth</i>		<i>11/7/07 9:50</i>		<i>3728 28</i>		<i>11/7/07 9:50</i>		
<i>3728 28</i>		<i>11-7-07 1240</i>		<i>MSM/...</i>		<i>11-7-07 1240</i>		
<i>M. King</i>		<i>11-7-07 1500</i>		<i>FED EX</i>				
				<i>[Signature]</i>		<i>11/8/07</i>		
LABORATORY SECTION		Received By		Title		Date/Time		
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time		