

0074378

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 11/6/2007
INITIAL/DATE

COMMENTS:

SDG 07-A-6239

SAF-RC-040

Rad only Chem only Rad & Chem

Complete Partial

Sample Location/Waste Site: 323 Bldg



**DATA
CHEM**
LABORATORIES, INC.



11/2/07
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SUBMITTED TO:

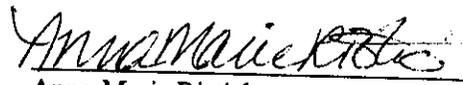
Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354

REFERENCE DATA:

Client Sample No.:	J15W54 through J15W61
P.O. No.:	Not Available
Sample Location:	323
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-6239
DCL Sample ID No.:	07-36203 through 07-36210
Sample Receipt Date:	11/1/07
Analysis Date:	11/2/07

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..

CINCINNATI OFFICE
4388 GLENDALE-MILFORD ROAD
CINCINNATI, OHIO 45242-3708
513 733-5338, FAX 513 733-5347

WEST COAST OFFICE
11 SANTA YORMA COURT
NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9489

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

Client: Washington Closure Hanford
Location: 323
Set ID: 07-A-6239

Client Sample ID:	J15W54	J15W55	J15W56	J15W56	J15W57
DCL Sample ID:	07-36203	07-36204	07-36205A	07-36205B	07-36206A
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Layered
Color:	Inseparable	Inseparable			
Texture:	Grey/Tan	Grey/Tan	Black	Brown	Grey
Description:	Cmpt/Crmby	Crmby/Fbrs	Flexible	Crumbly	Compact
Analysis:	Tile/Mastic	Drywall	Covebase	Mastic	Tile
	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>1 ≤ 3				>1 ≤ 3
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>1 ≤ 3	ND	ND	ND	>1 ≤ 3
Other Materials					
% Cellulose:		>10 ≤ 20			
% Fiberglass:					
% Other Fibers:				Trace	
% Resin/Binder:	>10 ≤ 20		>20 ≤ 30	>70 ≤ 80	>10 ≤ 20
% Non Fibrous:	>70 ≤ 80	>70 ≤ 80	>60 ≤ 70	>10 ≤ 20	>70 ≤ 80

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.

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

Client: Washington Closure Hanford
Location: 323
Set ID: 07-A-6239

Client Sample ID:	J15W57	J15W58	J15W59	J15W59	J15W60
DCL Sample ID:	07-36206B	07-36207	07-36208A	07-36208B	07-36209
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered Inseparable	Layered	Layered	Homog.
Color:	Black	Grey/Tan	Grey	Brown	Tan
Texture:	Resinous	Cmpt/Crmby	Flexible	Crumbly	Crumbly
Description:	Mastic	Tile/Mastic	Covebase	Mastic	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>3 ≤ 5	>1 ≤ 3			
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>3 ≤ 5	>1 ≤ 3	ND	ND	ND
Other Materials					
% Cellulose:					
% Fiberglass:					
% Other Fibers:				Trace	
% Resin/Binder:	>70 ≤ 80	>10 ≤ 20	>20 ≤ 30	>70 ≤ 80	
% Non Fibrous:	>10 ≤ 20	>70 ≤ 80	>60 ≤ 70	>10 ≤ 20	>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.

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

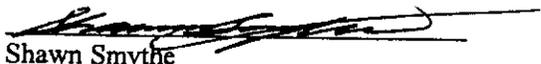
Client: Washington Closure Hanford
Location: 323
Set ID: 07-A-6239

Client Sample ID:	J15W61
DCL Sample ID:	07-36210
Macroscopic Examination	
Accepted/Rejected:	Accepted
Homogeneity:	Homog.
Color:	Tan
Texture:	Crumbly
Description:	Material
Analysis:	PLM
Asbestiform Minerals	
% Chrysotile:	
% Amosite:	
% Crocidolite:	
% Tremolite - Actinolite:	
% Anthophyllite:	
% Total Asbestos:	ND
Other Materials	
% Cellulose:	
% Fiberglass:	
% Other Fibers:	
% Resin/Binder:	
% Non Fibrous:	>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.

Washington Closure Hanford **CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST** **RC-040-335** Page 2 of 8

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	Field Logbook No. EL-1603-2	SAF No. RC-040		
Ice Chest No. FED EX BOX	Offsite Property No. A080029	COA R32300 1000	Method of Shipment Federal Express		
Shipped To DataChem Laboratories - Cincinnati	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	3g																	
SAMPLE ANALYSIS			Asbestos-BULK-EPA																	

Sample No.	Matrix *	Sample Date	Sample Time																	
J15W57 36206	OTHER SOLID	10-31-07	845	X																
J15W58 36207	OTHER SOLID	10-31-07	850	X																
J15W59 36208	OTHER SOLID	10-31-07	855	X																
J15W60 36209	OTHER SOLID	10-31-07	900	X																
J15W61 36210	OTHER SOLID	10-31-07	905	X																

CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00		Matrix * S=Soil SB=Sediment SO=Solid Sl=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other
Relinquished By/Removed From <i>TA Lee</i>	Date/Time 10-31-07/935	Received By/Stored In <i>Bill Singleton</i>	Date/Time 10-31-07/0935			
Relinquished By/Removed From <i>Bill Singleton</i>	Date/Time 10-31-07/1800	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			

LABORATORY SECTION	Received By <i>[Signature]</i>	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposed Method <i>[Signature]</i>	Disposed By	Date/Time

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
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 323		SAF No. RC-040		7 Days		
Ice Chest No. FEDEX BOX		Field Logbook No. EL-1603-2		COA R323601000				Method of Shipment Federal Express
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A086029		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					
			Asbestos-BULK-EPA					
SAMPLE ANALYSIS								
07- 07-A 6239								
Sample No.	Matrix *	Sample Date	Sample Time					
J15W52	OTHER SOLID	10-25-07	10/25/07					
J15W53	OTHER SOLID	10-25-07	10/25/07					
J15W54	OTHER SOLID	10-31-07	830	X				
J15W55	OTHER SOLID	10-31-07	835	X				
J15W56	OTHER SOLID	10-31-07	840	X				
CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS				Matrix *
Relinquished By/Removed From T. Lee		Date/Time 10/31/07 0935		Received By/Stored In [Signature]		Date/Time 10/31/07 0935		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Dry Solids DL=Dry Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other
Relinquished By/Removed From [Signature]		Date/Time 10/31/07 1500		Received By/Stored In FEDEX		Date/Time		
Relinquished By/Removed From [Signature]		Date/Time		Received By/Stored In [Signature]		Date/Time 11/10/07 1230		
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	[Signature]	Title	11/10/07	Date/Time			
FINAL SAMPLE DISPOSITION	Disposal Method	[Signature]	Disposed By	Date/Time				