

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-4706	SAF-RC-006	
Rad only	<input checked="" type="checkbox"/> Chem only	Rad & Chem
<input checked="" type="checkbox"/> Complete	Partial	

Waste Site(s): MO-829 Potential Asbestos

RECEIVED
SEP 04 2007
EDMC



8/24/07
Page 1 of 5

SUBMITTED TO:

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

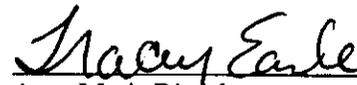


REFERENCE DATA:

Client Sample No.:	J15HK7 through J15HL9
P.O. No.:	Not Available
Sample Location:	MO-829 Potential Asbestos
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-4706
DCL Sample ID No.:	07-27122 through 07-27134
Sample Receipt Date:	8/23/07
Analysis Date:	8/24/07

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
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WEST COAST OFFICE
11 SANTA YORMA COURT
NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9469

DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report

Client: Washington Closure Hanford
 Location: MO-829 Potential Asbestos
 Set ID: 07-A-4706

Client Sample ID:	J15HK7	J15HK8	J15HK9	J15HL0	J15HL1
DCL Sample ID:	07-27122	07-27123	07-27124	07-27125	07-27126
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered Inseparable	Homog.	Homog.	Homog.	Homog.
Color:	Grey/Tan	Tan	Tan	Tan	Tan
Texture:	Flex/Fbrs/Resns	Fibrous	Fibrous	Fibrous	Fibrous
Description:	Linoleum	Ceiling Tile	Ceiling Tile	Ceiling Tile	Ceiling Tile
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>10 ≤ 20				
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>10 ≤ 20	ND	ND	ND	ND
Other Materials					
% Cellulose:		>80 ≤ 90	>80 ≤ 90	>80 ≤ 90	>80 ≤ 90
% Fiberglass:					
% Other Fibers:	>5 ≤ 10				
% Resin/Binder:	>10 ≤ 20				
% Non Fibrous:	>40 ≤ 50	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	>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.

8/24/07

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

Client: Washington Closure Hanford
Location: MO-829 Potential Asbestos
Set ID: 07-A-4706

Client Sample ID:	J15HL2	J15HL3	J15HL3	J15HL4	J15HL4
DCL Sample ID:	07-27127	07-27128A	07-27128B	07-27129A	07-27129B
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Layered	Layered	Layered	Layered
Color:	Tan	Grey	Grey	Grey	Grey
Texture:	Fibrous	Flexible	Flexible	Flexible	Flexible
Description:	Ceiling Tile	Covebase	Mastic	Covebase	Mastic
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:					
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	ND	ND
Other Materials					
% Cellulose:	>80 ≤ 90				>1 ≤ 3
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:		>20 ≤ 30	>60 ≤ 70	>20 ≤ 30	>60 ≤ 70
% Non Fibrous:	>5 ≤ 10	>60 ≤ 70	>20 ≤ 30	>60 ≤ 70	>20 ≤ 30

ND = None Detected Trace = <1%

Special Prep Procedures: None.

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


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Microscopist

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8/24/07

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

Client: Washington Closure Hanford
Location: MO-829 Potential Asbestos
Set ID: 07-A-4706

Client Sample ID:	J15HL5	J15HL5	J15HL6	J15HL7	J15HL8
DCL Sample ID:	07-27130A	07-27130B	07-27131	07-27132	07-27133
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Homog.	Homog.	Homog.
Color:	Grey	Grey	Grey	Grey	Grey
Texture:	Flexible	Flexible	Crumbly	Crumbly	Crumbly
Description:	Covebase	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:		>1 ≤ 3			
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:	>20 ≤ 30	>60 ≤ 70			
% Non Fibrous:	>60 ≤ 70	>20 ≤ 30	>90 ≤ 100	>90 ≤ 100	>90 ≤ 100

ND = None Detected Trace = <1%

Special Prep Procedures: None.

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


Shawn Smythe
Microscopist

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8/24/07

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

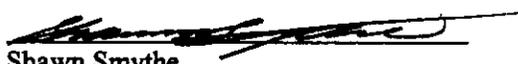
Client: Washington Closure Hanford
Location: MO-829 Potential Asbestos
Set ID: 07-A-4706

Client Sample ID:	J15HL9
DCL Sample ID:	07-27134
Macroscopic Examination	
Accepted/Rejected:	Accepted
Homogeneity:	Homog.
Color:	Black
Texture:	Resns/Crmby
Description:	Material
Analysis:	PLM
Asbestiform Minerals	
% Chrysotile:	>3 ≤ 5
% Amosite:	
% Crocidolite:	
% Tremolite - Actinolite:	
% Anthophyllite:	
% Total Asbestos:	>3 ≤ 5
Other Materials	
% Cellulose:	
% Fiberglass:	
% Other Fibers:	
% Resin/Binder:	>50 ≤ 60
% Non Fibrous:	>30 ≤ 40

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-006-149		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-829 Potential Asbestos		SAF No. RC-006		<i>7 Days</i> <i>8.22-07 / Day</i>												
Ice Chest No. <i>FED EX BOX</i>		Field Logbook No. EL-1516-11		COA RD4MXX2F00		Method of Shipment Fed Ex												
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. <i>A070305</i>		Bill of Lading/Air Bill No. SEE OSPC														
POSSIBLE SAMPLE HAZARDS/REMARKS <i>N/A</i>					Preservation	None												
Special Handling and/or Storage <i>N/A</i>					Type of Container	G/P												
					No. of Container(s)	1												
					Volume	5g												
					Asbestos-BULK-EPA													
SAMPLE ANALYSIS <i>07-A-4706</i>																		
Sample No	<i>07-</i>	Matrix *	Sample Date	Sample Time														
J15HK7	<i>27122</i>	OTHER SOLID	<i>8-22-07</i>	<i>1016</i>	<i>✓</i>													
J15HK8	<i>27123</i>	OTHER SOLID	<i>8-22-07</i>	<i>1030</i>	<i>✓</i>													
J15HK9	<i>27124</i>	OTHER SOLID	<i>8-22-07</i>	<i>1035</i>	<i>✓</i>													
J15HL0	<i>27125</i>	OTHER SOLID	<i>8-22-07</i>	<i>1038</i>	<i>✓</i>													
J15HL1	<i>27126</i>	OTHER SOLID	<i>8-22-07</i>	<i>1047</i>	<i>✓</i>													
CHAIN OF POSSESSION					SPECIAL INSTRUCTIONS					Matrix: *								
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		<i>Rush</i> Potential ACM					S=Soil SE=Soils ext 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					
<i>JR [Signature]</i>		<i>8-22-07 1300</i>		<i>KMS [Signature]</i>		<i>8-22-07 1300</i>												
<i>KMS [Signature]</i>		<i>8-22-07 1500</i>		<i>FED EX</i>														
<i>[Signature]</i>				<i>[Signature]</i>		<i>8/23/07</i>												
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		Title		Date/Time												
		<i>[Signature]</i>				<i>8/23/07/0993</i>												
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time												

