

SUBMITTED TO:

Joan Kessner
Bechtel Hanford
3350 George Washington Way, MS H0-25
Richland, WA 99352

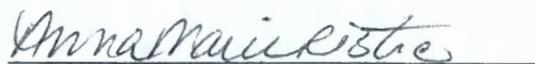
REFERENCE DATA:

Client Sample No.:	J00ND9 through J00NF0
P.O. No.:	Not Available
Sample Location:	628-1 White Bluffs burn pit
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	03-A-2300
DCL Sample ID No.:	03-14682 through 03-14683
Sample Receipt Date:	5/14/03
Analysis Date:	5/21/03



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 removed from the sample containers, dried, ground with a mortar and pestle, and sieved with 2-mm, 1-mm and a 0.5-mm screens before being mounted on a glass microscope slides. Each size fraction was examined under a stereomicroscope for fibrous materials. Mountings of the fibers observed and representative portions of the material were 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 portions of 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

*Some samples may contain fibers that are not visible by PLM and can only be discovered by electron microscopy techniques.
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 NIST.

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

Client: Bechtel Hanford
Location: 628-1 White Bluffs burn pit
Set ID: 03-A-2300

Client Sample ID:	J00ND9	J00NF0
DCL Sample ID:	03-14682	03-14683

Macroscopic Examination

Accepted/Rejected:	Accepted	Accepted
Homogeneity:	Homog.	Homog.
Color:	Brown	Brown
Texture:	Granular	Granular
Description:	Soil	Soil
Analysis:	PLM	PLM

Asbestiform Minerals

% Chrysotile:		
% Amosite:		
% Crocidolite:		
% Tremolite - Actinolite:		
% Anthophyllite:		
% Total Asbestos:	ND	ND

Other Materials

% Cellulose:		Trace
% Fiberglass:		
% Other Fibers:		
% Resin/Binder:		
% Non Fibrous:	>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.

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				B03-015-97		Page 1 of 1	
Collector Doug Bowers		Company Contact Renee Neilson		Telephone No. 521-2090		Project Coordinator KESSNER, JH		Price Code 8B	
Project Designation Remaining Sites Confirmation Sampling-Soil		Sampling Location 628-1 White Bluffs burn pit		SAF No. B03-015		Air Quality <input type="checkbox"/>		24 Hours	
Ice Chest No. <i>N/A</i>		Field Logbook No. EL-1578		COA C17HXU600C		Method of Shipment Fed Ex			
Shipped To DataChem Laboratories		Offsite Property No. <i>N/A</i>		Bill of Lading/Air Bill No. <i>8291-5245-5215</i>					
POSSIBLE SAMPLE HAZARDS/REMARKS					Preservation	None			
Special Handling and/or Storage					Type of Container	Whirl Pack			
					No. of Container(s)	1			
					Volume	5g			
						Asbestos-BULK-EPA			
SAMPLE ANALYSIS <i>03-A-2300</i>									
Sample No.	<i>03-</i>	Matrix *	Sample Date	Sample Time					
J00ND9	<i>14682</i>	SOIL	<i>5-12-03</i>	<i>1430</i>	<i>X</i>				
J00NF0	<i>14683</i>	SOIL	<i>5-12-03</i>	<i>1500</i>	<i>Y</i>				
CHAIN OF POSSESSION					SPECIAL INSTRUCTIONS				Matrix *
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		<i>7 day turn per A Ristic 5/14/03</i>	
<i>Doug Bowers</i>		<i>5-12-03/1645</i>		<i>RAF 3A 3728</i>		<i>5-12-03/1645</i>			
<i>RAF 3A 3728</i>		<i>5-13-03/1200</i>		<i>Fed Ex</i>		<i>5-13-03</i>			
<i>RAF 3A 3728</i>		<i>5-13-03/1200</i>		<i>Doug Bowers</i>		<i>5-17-03/1200</i>			
<i>Doug Bowers</i>		<i>5-13-03/1200</i>		<i>Fed Ex</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			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			