

WSCF
ANALYTICAL LABORATORY REPORT
ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

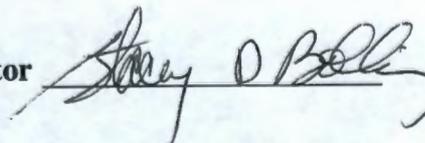
for

Bechtel Hanford, Inc.
MSIN H0-25
Richland, WA 99352

Attention: J. Kessner MSIN: H0-25

Survey ID J008Y2

Data Validator



This report may not be reproduced, except in its entirety without the written approval of the WSCF Laboratory.

Group#: 20021618
Report Date 3-dec-2002
bulk/rev.5

Fluor Hanford, Inc.
MSIN: S3-28
Richland, WA 99352

Phone 373-7403

Page 1/4

RECEIVED
APR 28 2003
EDMC



0059122

B01-055
WSCF0655

WSCF
ANALYTICAL LABORATORY REPORT
ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

Your samples have been analyzed for fiber content using polarized light microscopy and dispersion staining in accordance with Industrial Hygiene Laboratory Procedure LA-519-403, based on 40 CFR Part 763, Subpart E, App. E and EPA method EPA/600/R-93/116. The results are attached.

This method provides a visual estimate of the percentage of each fiber type present. It is a semiquantitative method intended to identify materials containing $>$ or $=$ 1% asbestos fibers.* Reported fiber percentages for samples and sample layers are based on the samples as received by the laboratory. The laboratory cannot verify that these values are representative of the original material sampled.

The Waste Sampling and Characterization Facility is accredited by the American Industrial Hygiene Association (AIHA) to analyze bulk samples for asbestos content. This accreditation does not constitute approval or endorsement of analytical results by AIHA.

If there are questions concerning this report, please contact the data validator listed on the cover page of this report.

* Because of the nonhomogeneous nature of soils, results will be reported using the following terms rather than percentages:

1. None - No asbestos fibers found.
2. Trace detectable - With extensive searching, a few fibers of the type indicated were found; concentration very low, well below 1%.
3. Obvious presence - Fibers easily found but overall concentration still low.
4. Significant presence - Fibers readily found; overall concentration may approach or exceed 1% level.

Polarized light microscopy (PLM) may not be the preferred method for identification of asbestos in floor tile. Most vinyl floor tiles marketed in the late sixties to mid-seventies contained asbestos milled so fine as to be below detection limits for PLM techniques. Tiles of that vintage, showing any detectable asbestos fibers should be considered to be asbestos-containing material. Non-detection of asbestos by PLM should not be considered conclusive proof that the tiles do not contain asbestos. Results for such samples will be reported as 'indeterminate'. Confirmatory analysis by TEM is strongly recommended.

WSCF ANALYTICAL LABORATORY REPORT

Attention: J. Kessner MSIN: H0-25

Group #: 20021618

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
----------	-----------	----------------	-------	--------	-------	---------	---------	----------	----------

W02I002738 J008Y2

The following are the results of this test- Bulk Asbestos Layer 1

	Crocidolite Asbestos	50-70 %		sdb	11/13/02	11/14/02	11/20/02
SAMPLE COMMENT---	Non-homogeneous blue-grey fibers coated with black granular						
SAMPLE COMMENT---	material, spots of rust, and small white rocks, reportedly						
SAMPLE COMMENT---	from 100B/C Site Remediation.						

RDL - Reporting Detection Limit RDL is $\geq 2 \times$ MDL

RQ=Result Qualifier J - Estimated value.

bulk/rev.5 This report may not be reproduced, except in its entirety without the written approval of the WSCF Laboratory.

Bechtel Hanford, Inc.

WSCF ANALYTICAL COMMENT REPORT

Attention: J. Kessner MSIN: H0-25

Group #: 20021618

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Validated 12/3/02 by SD Bolling, IH Technical Manager.
W021002738	J008Y2	LOGSAMP		SAMPLE ACCEPTABLE FOR RECEIPT. REC'D AND LOGGED BY MK GRANT 11/14/02.
		TESTDATA	Bulk Asbestos Layer 1	Non-homogeneous blue-grey fibers coated with black granular material, spots of rust, and small white rocks, reportedly from 100B/C Site Remediation.

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

This report may not be reproduced, except in its entirety without the written approval of the WSCF Laboratory.

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				B01-055-034		Page 1 of 1		
Collector DW Shea		Company Contact D.Shea		Telephone No. 373-6425		Project Coordinator KESSNER, JH		Price Code Data Turnaround		
Project Designation 100 B/C Area Effluent Pipeline & Proximity Site Remediation		Sampling Location Mystery pipe east of #5			SAF No. B01-055		Air Quality 7 Business D			
Ice Chest No.		Field Logbook No. EI-1548-2		COA R100BC2600		Method of Shipment Gov. vehicle				
Shipped To Waste Sampling & Characterization		Offsite Property No.			Bill of Lading/Air Bill No.					
POSSIBLE SAMPLE HAZARDS/REMARKS Possibly radiologically contaminated, Possible asbestos content Special Handling and/or Storage		Preservation		None						
		Type of Container		Marinelli						
		No. of Container(s)		1						
		Volume		750mL						
SAMPLE ANALYSIS				Asbestos						
Sample No.		Matrix *		Sample Date		Sample Time				
J008Y2 W025C02738		OTHER SOLID		11/13/02		0828		✓		
CHAIN OF POSSESSION				Sign/Print Names				SPECIAL INSTRUCTIONS		Matrix *
Relinquished By/Removed From <i>Fed Dushka Dushka</i>		Date/Time 11/13/02 1352		Received By/Stored In <i>W025C sample RMJA</i>		Date/Time 11/13/02 1352		Lab WO# DB3021 S=Soil SE=Sediment SO=Solid SI=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>100BC sample RMJA</i>		Date/Time 11/14/02 0902		Received By/Stored In <i>Dushka Dushka</i>		Date/Time 11/14/02 0902				
Relinquished By/Removed From <i>Dushka Dushka</i>		Date/Time 11/14/02 0923		Received By/Stored In <i>MK Grant / MK Grant</i>		Date/Time 11/14/02 0923				
Relinquished By/Removed From <i>Storage</i>		Date/Time 11/20/02 1120		Received By/Stored In <i>SD Bolling / Stacey D...</i>		Date/Time 11/20/02 1120				
Relinquished By/Removed From <i>SD Bolling / Stacey D...</i>		Date/Time 11/20/02 1400		Received By/Stored In <i>NH Storage</i>		Date/Time				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				
LABORATORY SECTION		Received By <i>MK Grant / MK Grant, IH Sample Custodian</i>				Title IH Sample Custodian		Date/Time 11-14-02 0923		
FINAL SAMPLE DISPOSITION		Disposal Method				Disposed By		Date/Time		