

WSCF0464

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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 B99-024-046

Data Validator *Gregory D. Bell*

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JUN 10 2002
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MAR 2002

Group#: 20020347
Report Date 22-mar-2002
bulk/rev.4

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

Phone 373-7403

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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. Follow-up analysis by other techniques may be required.

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ANALYTICAL LABORATORY REPORT

Attention: J. Kessner MSIN: H0-25

Group #: 20020347

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W02I000422	B146P5	<u>The following are the results of this test- Bulk Asbestos Layer 1</u>							
			Fiberglass	2.5	%	sdb	03/13/02	03/13/02	03/18/02
			Cellulose	3.7	%	sdb	03/13/02	03/13/02	03/18/02
		SAMPLE COMMENT-- Non-homogeneous black fibrous tar with a few white rocks,							
		SAMPLE COMMENT-- reportedly from 233S/200W.							
W02I000423	B146P6	<u>The following are the results of this test- Bulk Asbestos Layer 1</u>							
			Fiberglass	2.5	%	sdb	03/13/02	03/13/02	03/18/02
			Cellulose	3.7	%	sdb	03/13/02	03/13/02	03/18/02
		SAMPLE COMMENT-- Non-homogeneous black fibrous tar with white rocks on one							
		SAMPLE COMMENT-- side, reportedly from 233S/200W.							
W02I000424	B146P7	<u>The following are the results of this test- Bulk Asbestos Layer 1</u>							
			Fiberglass	2.5	%	sdb	03/13/02	03/13/02	03/18/02
			Cellulose	3.7	%	sdb	03/13/02	03/13/02	03/18/02
		SAMPLE COMMENT-- Non-homogenous black fibrous tar with white rocks on one							
		SAMPLE COMMENT-- side, reportedly from 233S/200W.							

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

RQ=Result Qualifier J - Estimated value.

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Bechtel Hanford, Inc.

WSCF ANALYTICAL COMMENT REPORT

Attention:

J. Kessner MSIN: H0-25

Group #: 20020347

Sample #	Client ID	Lab Area	Test	Comment
W02I000422	B146P5	VALGROUP LOGSAMP TESTDATA	Bulk Asbestos Layer 1	Validated 3/22/02 by SD Bolling, IH Technical Manager. REC'D AND LOGGED BY MK GRANT 3/13/02. Non-homogeneous black fibrous tar with a few white rocks, reportedly from 233S/200W.
W02I000423	B146P6	TESTDATA	Bulk Asbestos Layer 1	Non-homogeneous black fibrous tar with white rocks on one side, reportedly from 233S/200W.
W02I000424	B146P7	TESTDATA	Bulk Asbestos Layer 1	Non-homogenous black fibrous tar with white rocks on one side, reportedly from 233S/200W.

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

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			B99-024-46	Page 1 of 1
Collector Doug Bowers	Company Contact Steve Trent	Telephone No. 372-9651	Project Coordinator TRENT, SJ		Price Code 9L	Data Turnaround 7 Days
Project Designation 233-S Plutonium Concentration Facility Process Areas - Other		Sampling Location 233-S 200 west	East roof		SAF No. B99-024	Air Quality <input type="checkbox"/>
Ice Chest No. EAC 96-082	Field Logbook No. EFL1133-10	COA R233SP2800		Method of Shipment Gov vehicle		
Shipped To Waste Sampling & Characterization		Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A			

POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos Special Handling and/or Storage	Preservation	None																		
	Type of Container	aG																		
	No. of Container(s)	1																		
	Volume	500mL																		
SAMPLE ANALYSIS		Asbestos																		

Sample No.	Matrix *	Sample Date	Sample Time																		
B146P5	WDDJ00422	OTHER SOLID	3-13-02	0740	X																
B146P6	423	OTHER SOLID	3-13-02	0750	X																
B146P7	424	OTHER SOLID	3-13-02	0758	X																
B146P8		OTHER SOLID																			
B146P9		OTHER SOLID																			

CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix * S=Soil SB=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue Wp=Wipe L=Liquid V=Vegetation X=Other	
Relinquished By/Removed From Doug Bowers		Date/Time 3-13-02/0950		Received By/Stored In MK Grant		Date/Time 3-13-02 0950			Stop analysis of remaining samples upon the first positive result. on these 3 samples
Relinquished By/Removed From Storage		Date/Time		Received By/Stored In SD Bolling		Date/Time 3/15/02			
Relinquished By/Removed From SD Bolling		Date/Time 3/18/02		Received By/Stored In Storage		Date/Time 1035			
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