



**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 J00JV2-J00JV5**

**Data Validator**



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Group#: 20030394  
Report Date 14-apr-2003  
bulk/rev.5

Page 1/5

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

**Phone 373-7403**

**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

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**Group #:** 20030394

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W03I000503	J00JV2	The following are the results of this test- Bulk Asbestos Layer 1		Cellulose	OBVIOUS%	sdb	03/24/03	03/24/03	03/26/03
				Chrysotile Asbestos	OBVIOUS%	sdb	03/24/03	03/24/03	03/26/03
				Fiberglass	TRACE %	sdb	03/24/03	03/24/03	03/26/03
		SAMPLE COMMENT---	Non-homogeneous soil with various-sized grey and white rocks						
		SAMPLE COMMENT---	and small pieces of black tar, reportedly from 126-B-3 Soil						
		SAMPLE COMMENT---	Sampling.						
W03I000504	J00JV3	The following are the results of this test- Bulk Asbestos Layer 1		Cellulose	TRACE %	sdb	03/24/03	03/24/03	03/26/03
				Fiberglass	TRACE %	sdb	03/24/03	03/24/03	03/26/03
		SAMPLE COMMENT---	Non-homogeneous tan soil with grey rocks, reportedly from						
		SAMPLE COMMENT---	126-B-3 Soil Sampling. No asbestos was found in this sample.						
W03I000505	J00JV4	The following are the results of this test- Bulk Asbestos Layer 1		Cellulose	OBVIOUS%	sdb	03/24/03	03/24/03	03/27/03
				Chrysotile Asbestos	TRACE %	sdb	03/24/03	03/24/03	03/27/03
				Fiberglass	TRACE %	sdb	03/24/03	03/24/03	03/27/03
		SAMPLE COMMENT---	Non-homogeneous tan soil with multi-sized grey and white						
		SAMPLE COMMENT---	rocks, reportedly from 126-B-3 Soil Sampling.						

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

**RQ=Result Qualifier** J - Estimated value.

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Bechtel Hanford, Inc.

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Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W031000506	J00JV5	The following are the results of this test- * Bulk Asbestos Layer 1							
		Cellulose		OBVIOUS%		sdb	03/24/03	03/24/03	03/31/03
		Chrysotile Asbestos		OBVIOUS%		sdb	03/24/03	03/24/03	03/31/03
	SAMPLE COMMENT---	Non-homogeneous tan soil with multi-sized grey rocks,							
	SAMPLE COMMENT---	reportedly from 126-B-3 Soil Sampling.							

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

RQ=Result Qualifier J - Estimated value.

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# WSCF ANALYTICAL COMMENT REPORT

Attention: J. Kessner MSIN: H0-25

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Sample #	Client ID	Lab Area	Test	Comment
W03I000503	J00JV2	VALGROUP LOGSAMP		Validated 4/14/03 by SD Bolling, IH Technical Manager. SAMPLES ACCEPTABLE FOR RECEIPT. REC'D BY K BEEBE AND LOGGED BY MK GRANT 3/24/03.
		TESTDATA	Bulk Asbestos Layer 1	Non-homogeneous soil with various-sized grey and white rocks and small pieces of black tar, reportedly from 126-B-3 Soil Sampling.
W03I000504	J00JV3	TESTDATA	Bulk Asbestos Layer 1	Non-homogeneous tan soil with grey rocks, reportedly from 126-B-3 Soil Sampling. No asbestos was found in this sample.
W03I000505	J00JV4	TESTDATA	Bulk Asbestos Layer 1	Non-homogeneous tan soil with multi-sized grey and white rocks, reportedly from 126-B-3 Soil Sampling.
W03I000506	J00JV5	TESTDATA	Bulk Asbestos Layer 1	Non-homogeneous tan soil with multi-sized grey rocks, reportedly from 126-B-3 Soil Sampling.

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

VALTEST - Test Validation  
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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