

WSCF0386

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ANALYTICAL LABORATORY REPORT
ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

for

Bechtel Hanford, Inc.
Richland, WA 99352

Attention: J. Kessner MSIN: H0-25

Survey ID SAF# B01-113

Data Validator *Steve O'Brien*

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Group#: 20011579
Report Date 6-dec-2001
bulk/rev.4

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

WSCF ANALYTICAL LABORATORY REPORT

Attention: J. Kessner MSIN: H0-25

Group #: 20011579

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
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W011002051	B13F23	<p><u>The following are the results of this test-</u></p> <p style="margin-left: 40px;">Synthetic</p>	Bulk Asbestos Layer 1	<	1 %	adb	11/26/01	11/29/01	11/29/01
		<p>SAMPLE COMMENT-- Non-homogeneous tan soil with grey, tan, and white rocks, reportedly sampled from 200W/Well #C3803, 299-W15-42.</p> <p>SAMPLE COMMENT-- No asbestos fibers were detected in this sample.</p>							

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 #: 20011579

Sample #	Client ID	Lab Area	Test	Comment
WD11002051	B13F23	VALGROUP LOGSAMP TESTDATA	Bulk Asbestos Layer 1	Validated 12/6/01 by SD Bolling, IH Technical Manager. Received and logged by SD Bolling 11/29/01. Non-homogeneous tan soil with grey, tan, and white rocks, reportedly sampled from 200W/Well #C3803, 288-W15-42. No asbestos fibers were detected in this sample.

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

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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20011579

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			B01-113-60	Page 1 of 1
Collector Renee Nielson	Company Contact Virginia Rohay	Telephone No. 372-9100	Project Coordinator TRENT, SJ		Price Code 8N	Data Turnaround 14 Days
Project Designation PFP Well Installation Sampling and Analysis - Soil		Sampling Location 200 West; Well Number C3803, Well Name 299-W15-42 0'-2'		SAF No. B01-113	Air Quality <input type="checkbox"/>	
Ice Chest No. EPC99-050	Field Logbook No. EL-1562	COA T20ZP1D722	Method of Shipment Hand deliver - Govt. vehicle			
Shipped To Waste Sampling & Characterization		Offsite Property No. NA		Bill of Lading/Air Bill No. PPI		

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None											
	Type of Container	aG											
	No. of Container(s)	1											
	Special Handling and/or Storage	Volume	60mL										
SAMPLE ANALYSIS		Asbestos											

Sample No.	Matrix *	Sample Date	Sample Time										
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B13F23	WAI E002051	SOIL	11/26/01	2110	X								B13F06
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CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By <i>R. Nielson</i>	Date/Time 11/27/01 0442	Received By <i>STOAS EDIN</i>	Date/Time 11/27/01 0442
Relinquished By <i>STOAS EDIN</i>	Date/Time 11/29/01 0925	Received By <i>THOMASSEN PRODUCTIONS</i>	Date/Time 11/29/01 0925
Relinquished By <i>THOMASSEN PRODUCTIONS</i>	Date/Time 11/29/01 1000	Received By <i>SHAW D BELL</i>	Date/Time 11/29/01 1000
Relinquished By <i>SHAW D BELL</i>	Date/Time 11/29/01 1300	Received By <i>NA Storage</i>	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

SPECIAL INSTRUCTIONS

Samples stored in Ref.# at the 3728 Shipping Facility on / / .
 Collector not available to relinquish samples on / / for shipment.

Matrix *
 S=Soil
 SE=Settlement
 SO=Solid
 S=Sludge
 W=Water
 O=Oil
 A=Air
 DS=Drum Solids
 DL=Drum Liquids
 T=Tissue
 W=Wipe
 L=Liquid
 V=Vegetation
 X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time