

WSCF 0198

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**WSCF**  
**ANALYTICAL LABORATORY REPORT**  
**ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT**

for

**Bechtel Hanford Inc**  
**Richland, WA 99352**

**Attention: S Trent/D Ayres MSIN: H9-03**

**Survey ID SAFB01-040**

**Data Validator** *Sherry D Balkis*

**RECEIVED**  
APR 02 2001  
**EDMC**



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Group#: 20010335  
Report Date 7-mar-2001  
bulk/rev.4

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:** S Trent/D Ayres MSIN: H9-03

**Group #:** 20010335

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
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W01I000425 B10020

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

Cellulose	<	1	%	edb	03/01/01	03/01/01	03/05/01
Fiberglass	<	1	%	edb	03/01/01	03/01/01	03/05/01
Chrysotile Asbestos		10-20	%	edb	03/01/01	03/01/01	03/05/01
Crocidolite Asbestos		5-10	%	edb	03/01/01	03/01/01	03/05/01

SAMPLE COMMENT--- Homogeneous grey pressed gasket material with blue-grey and  
 SAMPLE COMMENT--- white fiber bundles and rust on one side, reportedly from  
 SAMPLE COMMENT--- the 276-S Hexone Tanks in 200E area.

**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: S Trent/D Ayres MSIN: H9-03

Group #: 20010335

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Validated 3/7/01 by SD Bolling, IH Technical Manager.
W011000425	B10020	LOGSAMP		Received by K. Beebe and logged by SD Bolling 3/1/01.
		TESTDATA	Bulk Asbestos Layer 1	Homogeneous grey pressed gasket material with blue-grey and white fiber bundles and rust on one side, reportedly from the 276-S Hexone Tanks in 200E area.

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

VALTEST - Test Validation  
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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20010335

<b>Bechtel Hanford Inc.</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>			Page 1 of 1
Collector Doug Bowers	Company Contact Duane Jacques	Telephone No. 373-5299	Project Coordinator Steve Trent	Price Code 19-05	Data Turnaround
Project Designation 276-S Hexone Tanks	Sampling Location 276-S Hexone tank 200 area	SAF No. B01-040	Air Quality <input type="checkbox"/>		
Ice Chest No. ERC 96-082	Field Logbook No. EL1519	COA B276SX130C	Method of Shipment Gov Vehicle		
Shipped To WSCF	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A			

<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> Sample @ 550 cpm BX - DO with BXG @ 350 cpm BX  <b>Special Handling and/or Storage</b> Cool to 4 degrees C. B20 3-1-01	Preservation	none																		
	Type of Container	ag																		
	No. of Container(s)	1																		
	Volume	120 ml																		
<b>SAMPLE ANALYSIS</b>		Bulk asbestos EPA 600																		
Sample No. / WSCF #0	Matrix *	Sample Date	Sample Time																	
B10020 / W01000425	other solid	3-1-01	1320	X																

<b>CHAIN OF POSSESSION</b>		<b>Sign/Print Names</b>		<b>SPECIAL INSTRUCTIONS</b>				<b>Matrix *</b>
Relinquished By Doug Bowers	Date/Time 3-1-01/1435	Received By R Barber	Date/Time 3/1/01 1235	W0 # DO-10020-0203-01 DO1105				S=Soil SE=Sediment SO=Solid S=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Time WI=Wipe L=Liquid V=Vegetation X=Other
Relinquished By R Barber	Date/Time 3/1/01 1445	Received By SD Bolling	Date/Time 3/1/01 1445					
Relinquished By SD Bolling	Date/Time 3/1/01 1515	Received By Storage	Date/Time					
Relinquished By Storage	Date/Time	Received By SD Bolling	Date/Time 3/3/01 945					
Relinquished By	Date/Time	Received By	Date/Time					
Relinquished By	Date/Time	Received By	Date/Time					

<b>LABORATORY SECTION</b>	Received By	Title	Date/Time
<b>FINAL SAMPLE DISPOSITION</b>	Disposal Method	<b>REMAINING SAMPLE STORED AT WSCF ASBESTOS LAB FOR AT LEAST 3 MONTHS, THEN DISCARDED AS ASBESTOS WASTE</b>	