

**SAF-RC-006**  
**100-N Ancillary Facilities & 190-DR**  
**Other Solid Sampling for ERDF Waste**  
**Designation**  
**FINAL DATA PACKAGE**

**COMPLETE COPY OF DATA PACKAGE TO:**

Tom Edmundson

X5-50

KW 10/15/08

INITIAL/DATE

**COMMENTS:**

**SDG 20082141**

**SAF-RC-006**

Rad only

Chem only

Rad & Chem

Complete

Partial

**Waste Site(s): 181-NA Guard Tower**

**RECEIVED**  
OCT 20 2008  
**EDMC**

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

for

**Washington Closure Hanford (WCH)**  
**Richland, WA 99354**

**Attention: Joan Kessner MSIN: H4-21**

Survey ID *J17K85*

Data Validator

*Steve O'Neil*



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Group#: 20082141  
Report Date 14-oct-2008  
bulk/rev.7.2

Fluor Hanford, Inc.  
MSIN: S3-28  
Richland, WA 99352 Phone 373-7403

Page

*1/4*

*RC-006*

# 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.

Page 2/4

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# WSCF ANALYTICAL LABORATORY REPORT

Attention: Joan Kessner MSIN: H4-21

Group #: 20082141

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W08IM02529	J17K85	<u>The following are the results of this test- Bulk Asbestos Layer 1</u>							
			Cellulose	1.5	%	kit	10/09/08	10/09/08	10/10/08
			Fiberglass	1.5	%	kit	10/09/08	10/09/08	10/10/08
		<p>SAMPLE COMMENT--- Non-homogenous tan and off-white vinyl floor tile with  SAMPLE COMMENT--- black mastic. Per the chain-o-custody, this sample was  SAMPLE COMMENT--- collected from: 181-NA Guard Tower. Indeterminant for  SAMPLE COMMENT--- asbestos. TEM is recommended for floor tile.</p>							

# WSCF

## ANALYTICAL COMMENT REPORT

Attention: Joan Kessner MSIN: H4-21

Group #: 20082141

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Validated 10/14/08 by SD Bolling, IH Technical Manager.
W08IM02529	J17K85	LOGSAMP		Sample returned to customer on 10/13/08.
		TESTDATA	Bulk Asbestos Layer 1	Samples Rec'd on 10/09/08 & Logged on 10/10/08 by T Frazier.
				Ok: Upon Receipt. Media: Bulk.
				Non-homogenous tan and off-white vinyl floor tile with black mastic. Per the chain-of-custody, this sample was collected from: 181-NA Guard Tower. Indeterminant for asbestos. TEM is recommended for floor tile.

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

VALTEST - Test Validation  
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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Washington Closure Hanford 10/14/08		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-006-179	Page 1 of 1
Collector		Company Contact Tom Edmundson		Telephone No. 947-5192		Project Coordinator KESSNER, JH	
Project Designation 100-N Ancillary Facilities & 190-DR Other Solid Sampling f		Sampling Location 181-NA Guard Tower		SAF No. RC-006		Price Code 9K	
Ice Chest No. N/A		Field Logbook No. EL-1516-13		COA RD4MXX2F00		Data Turnaround 7 Days 3 day TCE 10/20/08	
Shipped To Waste Sampling & Characterization 20082141		Offsite Property No. NA		Method of Shipment Gov't Vehicle		Bill of Lading/Air Bill No. NA	
POSSIBLE SAMPLE HAZARDS/REMARKS Potential Asbestos		Preservation		None			
Special Handling and/or Storage NA		Type of Container		G/P			
		No. of Container(s)		1			
		Volume		10g			
SAMPLE ANALYSIS				Asbestos-BULK-EPA			
Sample No.	Matrix *	Sample Date	Sample Time				
J17K85 W081m02S29	OTHER SOLID	10-9-08	1600	✓			
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS		Matrix *	
Relinquished By/Removed From T. Edmundson 10-9-08 1600		Received By/Stored In TA Frazzini 10-9-08 1600				S=Soil SE=Settlement SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WL=Wipe L=Liquid V=Vegetation X=Other	
Relinquished By/Removed From Storage 10/10/08 0857		Received By/Stored In K.L. Thomas/K.L. Thomas 10/10/08 0857					
Relinquished By/Removed From Storage		Received By/Stored In SO Bolling 10/13/08					
Relinquished By/Removed From SO Bolling 10/13/08		Received By/Stored In J.E. B... 10-13-08					
Relinquished By/Removed From		Received By/Stored In					
Relinquished By/Removed From		Received By/Stored In					
LABORATORY SECTION	Received By	Title				Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By				Date/Time	

**Kessner, Joan H**

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**From:** Wendt, Kathleen M  
**Sent:** Wednesday, October 15, 2008 10:30 AM  
**To:** Kessner, Joan H  
**Subject:** Sample Location Wrong

Joan:

Per Dave Shea, the sample location on the chains for K1342 should say **120-D-2**, Verification I. They are listed on the chain as 120-D-2I, Verification I.

Didn't know if you needed to notify the lab . . . .

Thanks,

*Kathy Wendt*

Sample Management  
Phone: 372-9617 / MSIN: H4-21