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Test Report  
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10/4/02

D00824



**SUBMITTED TO:**

Joan Kessner  
Bechtel Hanford  
3350 George Washington Way, MS H0-25  
Richland, WA 99352

**REFERENCE DATA:**

Client Sample Nos.:	B120W3 through B120B9
P.O. Number:	Not Available
Sample Location:	Not Available
Sample Type:	MCE Air Filters
Method Reference:	Airborne Fibers by Phase Contrast Microscopy (PCM) NIOSH Method 7400, Fourth Edition, (dated 8/15/94)
Date Received:	9/26/2002
DCL Sample Set ID No.:	02-A-4652
DCL Sample Nos.:	02-27883 through 02-27888

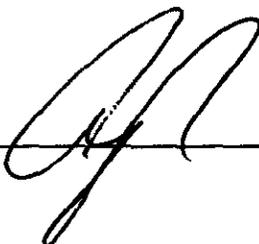
The samples indicated on the following data sheet(s) were analyzed in accordance with the NIOSH Method 7400 outlined in the NIOSH Manual of Analytical Methods (NMAM), Fourth Edition, dated 8/15/94. This method requires that samples have a minimum volume of 400 Liters on a single sample or on consecutive samples and that 2 field blanks (or 10% of the total samples, whichever is greater) be submitted with each set. The results reported are not field blank corrected. Blanks receive a 100-field count, and data are reported as Fibers/Field for use in background correction.

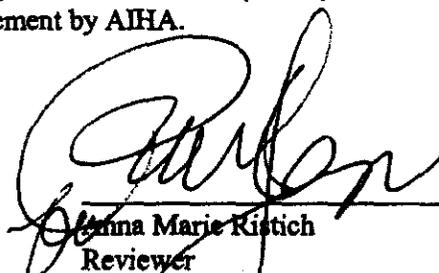
Results are tabulated on the following page(s). Results are reported in Fibers/mm<sup>2</sup>, Fibers per Filter and Fibers/mL (Fibers/cc). Concentrations in Fibers/mL are based on sample volumes or flow rates and times provided by the client. Results for all samples are based on the use of a 0.8-µm pore size, 25-millimeter diameter filter having an effective collection area of 385 mm<sup>2</sup>. Report applies only to portion(s) of sample(s) analyzed. Samples will be disposed of after 60 days unless otherwise instructed.

The limit of detection (LOD) for this method has been determined to be 7 Fibers/mm<sup>2</sup> for a sample volume of approximately 1200 Liters.

DataChem Laboratories adheres to the QA/QC guidelines set forth in this method that calls for 10% blind replicate analysis. The QA/QC officer maintains all QA/QC data at our laboratory.

DataChem Laboratories is American Industrial Hygiene Association (AIHA) accredited. Laboratory accreditation does not in any way constitute approval or endorsement by AIHA.

  
\_\_\_\_\_  
Alex Bell  
Analyst

  
\_\_\_\_\_  
Anna Marie Kistich  
Reviewer

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CINCINNATI OFFICE  
4388 GLENDALE-MILFORD ROAD  
CINCINNATI, OHIO 45242-3706  
513 733-5336, FAX 513 733-5347

WEST COAST OFFICE  
11 SANTA YORMA COURT  
NOVATO, CALIFORNIA 94945  
800 260-8071, FAX 415 893-9469

**DataChem Laboratories Phase Contrast Microscopy Test Report**

Client: Bechtel Hanford

Sample Location: Not Available

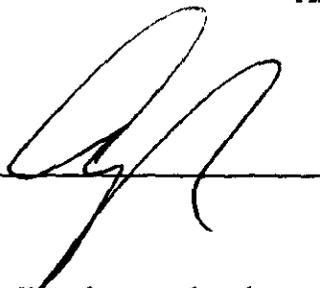
P.O. No.: Not Available

ANALYSIS INFORMATION								
Graticule Area (mm <sup>2</sup> ):	0.00817							
SAMPLE INFORMATION			SAMPLE RESULTS				LOD	
Client Sample Nos.	DCL Nos.	Vol. (L)	Fib/Field	Fib/mm <sup>2</sup>	Fib/Filter	Fib/mL	(Fib/mm <sup>2</sup> )	(Fib/mL)
B120W3	02-27883	370.00	0.025	<LOD	<LOD	<LOD	7	0.007
B120W4	02-27884	375.00	0.135	17	6,362	0.017	7	0.007
B120C5	02-27885	NA	0.000	<LOD	<LOD	NA	7	NA
B120C8	02-27886	NA	0.000	<LOD	<LOD	NA	7	NA
B120W7	02-27887	74.00	0.030	<LOD	<LOD	<LOD	7	0.036
B120B9	02-27888	75.00	0.020	<LOD	<LOD	<LOD	7	0.036

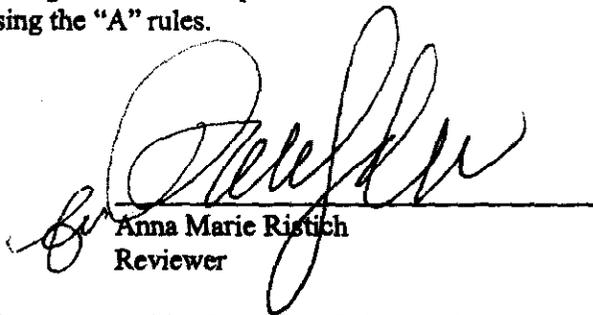
\*\*Comments: none.

\*NOTES: "NA" indicates no volume was given or the sample is a blank.  
All samples counted using the "A" rules.

Alex Bell  
Analyst



Anna Marie Ristich  
Reviewer



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Bechtel Hanford, Inc.		ERC/INDUSTRIAL HYGIENE CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						Page 1 of 2		
Collector: <b>Duffer J. Warden</b>	Company Contact <b>Samuel J. Moff</b> <i>9/24/02</i>	<b>Henry W. Ruby</b>			Telephone No. 373-5600	Project Coordinator <b>Trent, S.J.</b>		Data Turnaround <b>Normal</b>		
Payroll #: <b>73180</b>	Sampling Location <b>02-A-4652</b>				SAF No. B00-004; B00-005		Method of Shipment <b>Federal Express</b>			
Type of Sample: <b>Personal/excursion</b>					Bill of Lading/Air Bill No. <b>824518003015</b>					
Shipped To: <b>Data chem</b>										
POSSIBLE SAMPLE HAZARD/REMARKS <b>Asbestos</b>	Preservation (ie., cooling required, etc.)				No	No	No			
	Type of Container				Cassette	Baggy	Cassette			
	No. Of Containers				1	1	1			
Special Handling and/or Storage <b>N/A</b>	Volume				0	0	0			
SAMPLE ANALYSIS					Lead Airborne	Asbestos Bulk	Asbestos Airborne			
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L)	Comments						
B120W3	A	9-24-02	<del>74</del> <b>2.2</b>	Personal		X	27883			
B120W4	A	9-24-02	<del>74</del> <b>2.5</b>	Personal		X	27884			
B120C5	A	9-24-02	0	Blank		X	27885			
B120C8	A	9-24-02	0	Blank		X	27886			
B120W7	A	9-24-02	74	Excursion		X	27887			
SIGN / PRINT NAMES / USE MILITARY TIME										
Collected By: <b>Duffer J. Warden</b> DATE/TIME: <b>1535 9-24-02</b>		Collected By: <b>[Signature]</b> DATE/TIME: <b>1525 9/24/02</b>		SPECIAL INSTRUCTIONS All relevant COAs must be provided:  <b>R105HX Y F10</b>			MATRIX: S - SOLID SE - SEDIMENT SO - SOIL SL - SLUDGE W - WATER O - OIL A - AIR DS - DRUM SOLIDS DL - DRUM LIQUIDS T - TISSUE WI - WIFE L - LIQUID V - VEGETATION X - OTHER			
Collected By: <b>[Signature]</b> DATE/TIME: <b>0830 9-25-02 0700</b>		Collected By: <b>[Signature]</b> DATE/TIME: <b>0800 9-25-02</b>		ANALYSIS METHOD (SPECIFIC):  <b>N105H 7400</b>						
Collected By: <b>[Signature]</b> DATE/TIME: <b>0845 9-25-02</b>		Collected By: <b>[Signature]</b> DATE/TIME: <b>0830 9-25-02</b>								
Collected By: <b>[Signature]</b> DATE/TIME: <b>1230 9-25-02</b>		Collected By: <b>[Signature]</b> DATE/TIME: <b>0845 9-25-02</b>								
Collected By: <b>[Signature]</b> DATE/TIME: <b>1330 9/25/02</b>		Collected By: <b>[Signature]</b> DATE/TIME: <b>1250 9/25/02</b>								
LABOURATORY SECTION BHI-SH-202 (01/07/02)		Analyzed By: <b>[Signature]</b>					DATE/TIME: <b>9/26/02/1033</b>			

824518003015

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Bechtel Hanford, Inc.

Preservation (i.e., cooling required, etc.)

No No No

Type of Container

Cassette Baggy Cassette

No. Of Containers

1 1 1

Volume

0 0 0

SAMPLE ANALYSIS

Lead Airborne Asbestos Bulk Asbestos Airborne

SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L)	Comments	Lead Airborne	Asbestos Bulk	Asbestos Airborne
B12089 B12089-9-24-02	A	9-24-02	75	Excursion		X	29.888

REVIEWED BY:

\_\_\_\_\_

PRINT/SIGN NAME

DATE:

\_\_\_\_\_