

**American Industrial Hygiene Association  
Bulk Asbestos Analytical Testing Program  
Results of Round A79-209  
7/15/2009**

Glen Nawrocki  
Wes-Har Asbestos Analytical & Consulting  
7025 Brewsler Drive West  
North Delta, British Columbia V4E1T9  
CANADA

Laboratory ID Number  
149340

Total Penalty Points 0  
Round Status P  
Program Status P

Lot Designation\Sample ID Numbers	A) 7535	B) 6752	C) 9313	D) 3154
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Analysis Results from Laboratory Number 149340				
Asbestos (%)	NONE (0)	CHRY (6)	CROC (2)	AMOS (5)
	NONE (0)	NONE (0)	NONE (0)	CHRY (3)
	NONE (0)	NONE (0)	NONE (0)	NONE (0)
Other Fibrous Materials (%)	CELL (91)	NONE (0)	NONE (0)	FBGL (72)
	NONE (0)	NONE (0)	OTHR TRA	NONE (0)
Nonfibrous Material (%)	ACID (7)	OTHR (38)	ACID (82)	ACID (72)
Penalty Points Assessed	0	0	0	0
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Analysis Results from Reference Laboratory One				
Asbestos (%)		CHRY (4)	CROC (2)	AMOS (4) CHRY (1)
Other Fibrous Materials (%)	CELL (95)	CELL (TRA)		FBGL (75) CELL (TRA)
Nonfibrous Material (%)	OTHR (5)	ACID (56) OTHR (40)	ACID (98)	OTHR (20)
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Analysis Results from Reference Laboratory Two				
Asbestos (%)		CHRY (3)	CROC (1)	AMOS (3) CHRY (1)
Other Fibrous Materials (%)	CELL (95) FBGL (1)			FBGL (90)
Nonfibrous Material (%)	OTHR (4)	OTHR (97)	ACID (99)	OTHR (6)
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Acceptable Quantitation Range (%)		CHRY (TRA-10)	CROC (TRA-5)	AMOS (TRA-25) CHRY (TRA-3)
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Summary of Results from all Laboratories				
Type One Asbestos		CHRY	CROC	AMOS
Type One Mean		3.7	5.7	4.2
Type Two Asbestos				CHRY
Type Two Mean				2.9
Type Three Asbestos				
Type Three Mean				
Other Asbestos Types Reported in Sample		AMOS, TREM	ACTN, AMOS, ANTH, CHRY, TREM	ACTN, ANTH, CROC, TREM
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ACTN=Actinolite	CHRY=Chrysotile	CELL=Cellulose	ACID = acid-soluble fraction, including but not limited to, calcite, gypsum, dolomite, magnesite, hydromagnesite, anhydrite, and bassanite	
AMOS=Amosite	CROC=Crocidolite	FBGL=Fiberglass/Mineral Wool	MICA=Micaceous Material	
ANTH=Anthophyllite	TREM=Tremolite	SYNT=Synthetic	OTHR=Other	
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Round Status:	P=Pass	F=Fail	TE = Temporarily Excused	
Program Status:	P=Proficient	NP=Nonproficient	NA = Not Applicable	
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**Table 4. Distribution of Penalty Point Totals Incurred**

	Total Penalty Points Incurred	Number of Laboratories
Passing Laboratories	0	100
	1 - 24	59
	25 - 49	21
	50 - 74	28
	75 - 99	7
Total Passing Laboratories		215
Failing Laboratories	100 - 124	2
	125 - 149	3
	150 - 199	2
	200 or more	3
Nonparticipants		14
Total Failing Laboratories		24
Excused Laboratories		1

**Table 5. Sample Classification, Asbestos Identification, and Semiquantitation Errors, by Test Sample Lot**

Sample Lot	Asbestos Content	Number of Errors, by Type			
		FN	FP	ID	SQ
A	-	----	1	----	----
B	+	2	----	1	4
C	+	1	----	26	75
D	+	1	----	45	44
Total Errors Incurred		4	1	72	123

FN = False Negative    FP = False Positive    ID = Asbestos Identification Error    SQ = Semiquantitation Error

## **Section V - Summary of the Test Round**

Of the 240 laboratories enrolled, 225 submitted results of analyses for the test round, for a response rate of 94%. This rate was consistent with the 94% average participation rate for the 56 previous test rounds conducted under the proficiency rating format. A laboratory not returning results was deemed “failing” (F) for the test round unless it had notified AIHA beforehand of its intent not to participate in the test round and provided a qualifying reason for the nonparticipation. One laboratory provided such notification to AIHA. Of the 225 participating laboratories, 223 (99%) submitted analysis results via RTI’s Web site for the program.

The 14 laboratories that did not submit results by the deadline date or have an AIHA-approved exemption were contacted by RTI to confirm their intent not to participate. One laboratory wishes to remain enrolled but will not submit results before Test Round 80. Three laboratories indicated that they would be disenrolling from the program. The other 10 laboratories did not reply to RTI’s voice messages or e-mails.

Tables 4 and 5 illustrate the total test round effort, as generated by the results of analyses submitted by participating laboratories. Table 4 shows the penalty point totals incurred by passing (P) and failing (F) laboratories based on the grading criteria described on page 13 of this report. A laboratory was rated F for incurring 100 or more penalty points or for not participating. The total numbers of P and F laboratories are also indicated. For the test round, 215 laboratories (90% of the total enrolled, 96% of the total participating) were rated P. Of the 24 F laboratories for the test round, 3 were rated so for incurring classification errors, with or without other error types, and 7 resulted from a combination of asbestos identification errors and/or semiquantitation errors, without classification errors. The 14 laboratories that did not submit results by the deadline or have an AIHA-approved exemption received F ratings for nonparticipation. This was not the first test round of participation for any of the 24 F laboratories.

Table 5 lists totals of false negatives, false positives, asbestos identification errors, and semiquantitation errors made by laboratories, by sample lot. False negatives and false positives are denoted by “FN” and “FP,” respectively; asbestos identification and

semiquantitation errors are denoted by “ID” and “SQ,” respectively. Totals of all error types incurred for the test round are shown at the bottom of the table.

The following evaluation criteria were used to assign these classification, identification, and semiquantitation errors:

<u>Proficiency Grading Criteria</u>	<u>Penalty Points</u>
Failing to submit analysis results	Automatic NP
Failing to report asbestos in a positive sample (FN)	100
Reporting 1% or greater asbestos in a blank sample (FP)	100
Failing to report the correct asbestos type, in a one-type sample (ID)	50
Failing to report second asbestos type, in a multi-type sample (ID)	50
Failing to report third asbestos type, in a multi-type sample (ID)	25
Reporting 1% or greater incorrect asbestos type (ID)	45/type
Reporting trace asbestos in a blank or trace incorrect asbestos type(s) in a positive sample	No penalty
Failing to report trace asbestos when RTI QC confirms it in all samples	25/type
Failing to report trace asbestos when RTI QC does not confirm it in all samples	No penalty
Per sample, first asbestos semiquantitation outside acceptance range	20
Per sample, second asbestos semiquantitation outside acceptance range	10
Per sample, third asbestos semiquantitation outside acceptance range	5

