



ASBESTOS TEM LABORATORIES, INC.

**CAL ARB Method 435
Polarized Light Microscopy
Analytical Report**

Laboratory Job # 104-002

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ASBESTOS TEM LABORATORIES, INC

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U.S. Dept. of Commerce
NVLAP
CA DOHS ELAP

Feb/20/2003

Mr. Jack Anderson
ABC Consultants
5499 West "A" Street
Burlingame, CA 94111

RE: LABORATORY JOB # 104-002
Polarized light microscopy analytical results for 2 bulk sample(s).
Job Site: E & E Aggregate
Job No.: HH-112

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with the California Air Resources Board (ARB) Method 435 for the determination of asbestos in serpentine aggregate samples.

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. Samples which appear to contain moisture are heated in an oven at approx. 350 deg. C. until dry. The dry samples are placed back into the negative air hood and are observed at low magnification using a binocular stereomicroscope to allow gross characterization of the material. The material is then run through a PEP 150 Jaw Crusher, where it is reduced to ~1/8" pea size gravel and then through a PEP 100 Pulverizer until the sample material is a nominal 200 mesh particle size. A representative sampling of the material is selected and eight separate mounts are made on glass microscope slides with drops of refractive index oil and coverslips. The prepared slides are placed under a polarizing light microscope where standard mineralogical techniques are used to analyze the various materials present, including asbestos. Quantification of asbestos concentration is obtained using the standard CAL ARB Method 435 point count protocol. For samples observed not to contain asbestos, a visual estimation technique is used as described in the method. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

Sincerely Yours,

Lab Manager
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, without the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

POLARIZED LIGHT MICROSCOPY

ANALYTICAL REPORT

Contact: Mr. Jack Anderson	Samples Submitted: 2	Report No. 34735
Address: ABC Consultants 5499 West "A" Street Burlingame, CA 94111	Samples Analyzed: 2	Date Submitted: Nov-20-02
	Job Site / No.	Date Reported: Nov-25-02
E & E Aggregate: HH-112		

SAMPLE ID	POINTS COUNTED	ASBESTOS %	TYPE	LOCATION / DESCRIPTION
1	7	1.75	Chrysotile	Pile # 1
Lab ID # 104-002-001	400 - Total Points			Chrysotile asbestos detected.
2	0	<0.25	Chrysotile	Pile # 2
Lab ID # 104-002-002	400 - Total Points			Chrysotile fibers observed in the non-counted portion of the sample.
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			

Lab Manager _____

Analyst _____