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Laboratory Report

Cyprus Industrial Minerals Company

REPORT NO.: 4790-Asbestos REFERENCES: Bay Street
KEY: ENVIRONMENTAL
DATE OF REPORT: June 16, 1975
DATE OF WORK REQUEST/BY: 1/25/75-H.T. Mulryan
T. Baak
REPORTED BY: H. Scholtz
APPROVED BY:  CLASSIFICATION: H. T. Mulryan, M. F. Warner
A. P. Gentsch, L. D. Murino,
J. D. Mulryan, J. Felger,
T. Baak, C. J. Parmentier
D. L. Harris, H. Scholtz
STATUS: COMPLETE

SUBJECT: Samples from Bay Street marked C400, Lot 211, C500, Lot 209, M139, Lot 709, T076, Lot 116, F128, Lot 712, and Furnace Creek Lot 213.

OBJECTIVE: X-ray diffraction was used for asbestos detection.

<u>RESULTS:</u>	<u>Sample</u>	<u>% Tremolite</u>
	M139 Lot 709	0.1%
	C500 Lot 209	0.2%
	All other samples	N.D.

CONCLUSION: Only two of the samples showed traces of asbestos by X-ray diffraction.


H. Scholtz

HS/amv

Laboratory Report

Cyprus Industrial Minerals Company

REPORT NO.: 4790 Asbestos

REFERENCES: Bay Street

KEY: Environmental

DATE OF REPORT: 6/16/75

DATE OF WORK REQUEST BY: 4/21/75

REPORTED BY: HS

APPROVED BY:

STATUS:

Complete

SUBJECT: Samples from Bay Street marked C400 lot 211,
C 500 lot 209, M 139 lot 709, T076 lot 116, F128 lot 712, and
~~C 500 lot 209~~ Furnace Creek lot 213.

Objective: X-ray diffraction was used for asbestos detection.

sample	% Tremolite
M 139 lot 709	0.1 2
C 500 lot 209	0.2 2

Conclusion: only two of the samples showed
traces of asbestos by X-ray diffraction.

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Laboratory Report

Cyprus Industrial Minerals Company

REPORT NO.: 4790 Asbestos REFERENCES: Keeler
KEY: ENVIRONMENTAL
DATE OF REPORT: June 16, 1975
DATE OF WORK REQUEST/BY: 1/25/75-H. T. Mulryan
T. Baak
REPORTED BY: H. Scholtz
H. Scholtz
APPROVED BY: *DS* CLASSIFICATION: H. T. Mulryan, M. F. Warner,
A. P. Gentsch, T. Baak,
L.D. Murino, J. Felger, J. D.
Mulryan, D. L. Harris,
H. Scholtz
C.J. Parmentier
STATUS: COMPLETE

SUBJECT: Samples from Keeler marked HG055, Lot 117K, HG055, Lot 121K, HG075, Lot 119K, HG075, Lot 120, M139, Lot 118K, HMR29, Lot 555K, C400, Lot 552K, Trinity Superfine, Lot 554K, Sierrawhite IR, Lot 556K, and Sierralite, Lot 551K.

OBJECTIVE: X-ray diffraction was run on all samples for asbestos indications.

RESULTS: Samples % Tremolite

HG075 Lot 119K 0.1%

M139 Lot 118 0.3%

All other samples N.D.

CONCLUSION: Only two samples showed asbestos traces by X-ray diffraction.

H. Scholtz
H. Scholtz

HS/amv

CYPRUS

Laboratory Report

Cyprus Industrial Minerals Company

REPORT NO.: 4790 Asbestos

REFERENCES: Keeler

KEY: Environmental

DATE OF REPORT: 6/14/75

DATE OF WORK REQUEST/BY: 6/25/75/HIM, T, B. COPIES:

REPORTED BY: JS

APPROVED BY:

CLASSIFICATION:

STATUS: Complete

SUBJECT: Samples from Keeler marked HGO 55 lot 121K, HGO 55 lot 121K, HGO 75 lot 119K, HGO 75 lot 120, M139 lot. ~~OBJECTIVE~~ HMR 29 lot 555K, C 400 lot 552K, Trinity Agate lot 554K, Sierrawhite IR lot 556K, and Sierrawhite lot 551K.

Objective: Xray diffraction was run on all samples for asbestos indications.

Results: HGO 75 lot sample	% Tremolite
HGO 75 lot 119K	0.1%
M 139 lot 118	0.3%
All other samples	N.D.

Conclusion: only ~~two~~ two samples showed ~~two~~ asbestos traces by Xray diffraction.

CYPRUS

LABORATORY REPORT



DIVISION CYPRUS MINES CORPORATION TRENTON, N.J. 08606

REPORT NO.: 7790-10

REFERENCES:

KEY: Warm Springs
Beaverhead
DATE OF REPORT: Electron Micrographs
3/5/69

DATE OF WORK REQUEST/BY: Verbal TB COPIES: TB, DLH, CJP

REPORTED BY: C.J. Parmentier

APPROVED BY: T. Baak CLASSIFICATION: Confidential

STATUS: Pending

SUBJECT: Beaverhead/Warm Springs Talc

OBJECTIVE: Prepare Electron Micrographs for comparison study

SUMMARY:

Three different grinds of subject talcs were micrographed at 10,000 x and 50,000 x.

	<u>Warm Springs</u>	<u>Beaverhead</u>
Crude	Warm Springs crude	Beaverhead crude Lab #R-1183
325 mesh	C-400 Lot # 1028	Cascade
Vapor ultra fine	Warm Springs ultra fine (Mistron Superfrost)	Beaverhead vapor (Mistron Star)

The main difference between Warm Springs and Beaverhead talc was the presence of acicular particles on all Warm Springs samples.

C. J. Parmentier

CJP:sfs

Laboratory Report

Cyprus Industrial Minerals Company

REPORT NO: 4790-asbestos

REFERENCES:

KEY: Environmental

DATE OF REPORT: 9/4/75

DATE OF WORK REQUEST/BY: HTM

COPIES: HTM, APG, MFW, CRM,
RDL, DFK, JDM, HS, TB, AND CJP

REPORTED BY: H. Scholtz

APPROVED BY: 

CLASSIFICATION:

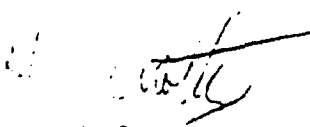
STATUS: Complete

SUBJECT: Eleven talc samples from Bay Street. See attached sheet for sample identification.

OBJECTIVE: X-ray diffraction for tremolite.

RESULTS: See attached sheet.

CONCLUSION: All samples are below the 0.5% tremolite specification.


H. Scholtz

HS:cp

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Attachment for Laboratory Report No: 4790-asbestos
Date of Report: 9/4/75

<u>Sample</u>	<u>Bay Street Lot #</u>	<u>% Tremolite</u>
T-0 76	731	0.2
M. Frost 128	732	ND
Mistron MSC	733	ND
M. Frost 128	734	ND
T-076	735	ND
T-076	736	ND
C400	242	ND
C400	243	ND
Panamint Crude	Car #10711	ND
Panamint Crude	Car #126150	ND
Panamint Crude	Car #108106	ND

TO: H.T. MULRYAN
FROM: P. COLVILLE
SUBJECT: 76-0127-CIM-BS
DATE: May 10, 1976

Report # 1 on Blanket Request

Two samples designated 336 B and 337 B were received and analyzed by X-ray diffraction by D.L. Harris with the following results:

- 336 B Talc with minor dolomite, very minor calcite and Mica, trace of chlorite. Tremolite was not detected. (<.1%)
- 337 B Talc with minor dolomite, very minor calcite and mica, trace of quartz, and chlorite. Tremolite probably ~.1%. This determination is very marginal and based on a slight rise in background where the tremolite peak occurs. Our detection level is .1% and this tremolite is barely detected.

Dr. Harris submitted these two lots to C.J. Parmentier for TEM photographs. Microscope observations confirm the X-ray data.

P. Colville

P. COLVILLE

PC/bb

cc: ESA, GSB, RCC, PC

Laboratory Report

Cyprus Research Company

2435 Military Avenue
West Los Angeles, California
Telephone 213) 478-0462

Filing No. 76-0127-CIM-BS

References:

Key: Talc - R.T. Vanderbilt

Date of Report: 5/04/76

Date of Work Request / By: 4/29/76/H.T.MULRYAN Copies:

Reported By: CJP

Approved By: PC

Classification: CCC

Status: SUPPLEMENT TO 76-0127-CIM-D.L. HARRIS

Subject: SEM of C-400 and C-500 Special Blend Talcs

Objective: To prepare micrographs which illustrate each talc sample morphology, and illustrate mineral fibers if present.

Foreword: Two talc samples were submitted by Dr. D. L. Harris, along with a copy of the attached work order. The samples were received labeled as special blends of C-400 and C-500, lot numbers 336 B and 337 B respectively.

These samples were prepared for scanning electron microscopy (SEM) by mixing a few milligrams of talc in ultrapure deionized water and dispersing with ultrasonic energy. A measured aliquot of the resultant dispersion was then applied to a SEM specimen stub, dried, and coated with a vacuum evaporated, thin layer of metal. SEM examination followed at magnifications ranging from 100 x to 10,000 x.

PLAINTIFF'S
EXHIBIT
CAM-20

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