ETHYL CORPORATION

INTER-OFFICE



To	A.E. Hutchinson	Address	BRP
From	Thomas L. Roberts	Address	BRT
Subject	Asbestos Survey - Central Shops	Date	March 30, 1978

On January 16, 1978, an asbestos survey was conducted at Central Shops. One personal breathing zone sample was collected on a machinist while cutting and machining transite pipe. This sample was collected with a Model G MSA air pump on standard 0.8μ membrane filter mounted in an open face filter holder. Samples were counted using 450X phase contrast illumination. Attached for your review is the test results.

This personal air sample shows a TWA exposure to asbestos of 8.83 fibers/cc >5 μ in length as outlined in 1910.1001. During this operation a great deal of dusting occurs and visibly contaminates the adjacent work areas. The present ventilation system is not adequate to handle the volume of dust created during this operation. This is noted in the build-up of dust that occurs in the surrounding area. In order to better control asbestos fibers to acceptable levels and isolate our asbestos handling, it is recommended that this equipment be moved into the carpenter shop and connected into the exhaust ventilation system there.

The following is a review of parts of the OSHA standard that may offer guidance in improving our present program:

1910.1001 (b)(2) - 8-hour TWA = 2 fibers/cc >5μ in length.

1910.1001 (c)(1) - Methods of compliance. Engineering controls and local exhaust ventilation. The present system needs improvement.

1910.1001 (c)(2) - Work practics. (i) Wet methods should be used where possible. (ii) Removal of asbestos containing materials from containers must be wetted, enclosed or ventilated to control dusting.

1910.1001 (d)(i) - Use of respirators is allowed only during the time period necessary to install proper engineering controls.

1910.1001 (d)(iv)- A written respiratory protection program must be developed and implemented.

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1910.1001 (d)(iv)(c)- Each employee assigned a respirator must be evaluated by a physician to determine his ability to use this protective equipment.

1910.1001 (g) - Caution signs must be posted in areas handling asbestos fibers and caution labels must be affixed to disposal bags.

1910.1001 (h) - Housekeeping - All external surfaces shall be kept free of accumulations of asbestos fibers.

A complete review of this standard is recommended for all those responsible for this program. As changes are made in asbestos handling system follow-up inspections will be conducted to determine the effectiveness of these modifications.

Please advise when this operation will be available for additional evaluation.

Thomas L. Roberts

Thomas L. Roberts
Industrial Hygienist

TLR:sbb
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ASBESTOS SURVEY

CENTRAL SHOPS

Name	Date	Location	Sample Time	TWA Asbestos Concentration
Vernon Triche, Emp. #BW 00992 Soc.Sec.#434-64-0714	1-16-78	Central Shops	455 min.	8.83 fibers/cc

TLV = 2.0 fibers/cc > 5 μ in length