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ASBESTOS FOUND IN DULUTH WATER

E.P.A. Links Fibers in Lake
to Industrial Discharge

By JANE E. BRODY

The Environmental Protection Agency disclosed yesterday that "high concentrations" of potentially dangerous asbestos fibers had been found in the drinking water of Duluth and surrounding Minnesota communities that use Lake Superior for their water supply.

The source of the fibers, the agency said, is believed to be the discharge of waste from the Reserve Mining Company, a taconite processing plant that has been embroiled in an anti-pollution suit for several years.

The company, whose plant in Silver Bay, Minn., 55 miles northeast of Duluth, has been dumping 67,000 tons of taconite tailings into the lake daily for 16 years, called the charges unfounded and said there was no indication that the tailings presented any hazard to the drinking water.

While there is no health effect known to be associated with the ingestion of asbestos fibers, the Federal agency recommended that communities using Lake Superior water find alternative sources of drinking water for very young children.

In studies over the last two decades, Dr. Irving J. Selikoff, an expert on environmental medicine at Mount Sinai Hospital here, showed that the inhalation of asbestos fibers can cause a chronic lung disease called asbestosis and cancer of the lungs, stomach and colon.

In an interview yesterday, Dr. Selikoff said his laboratory had identified the asbestos fibers in the Duluth water as being the same type (amosite) that has been implicated in half the deaths among workers in a Paterson, N.J., asbestos plant. These workers experienced three times the expected death rate from cancer of the gastrointestinal tract.

"It can be assumed that anyone who inhales asbestos fibers also ingests them, but there have been no pure studies of the effects of ingestion in humans," Dr. Selikoff said.

Dr. Lawrence Plumlee, a physician on the staff of E.P.A., said that limited studies in animals have indicated that when asbestos is placed in the stomach, it rapidly enters the blood stream and is widely distributed to tissues throughout the body.

The agency said it had asked the Reserve Mining Company, Dr. Selikoff to determine within 60 days the average accumulation of asbestos fibers in the tissues of residents of the Duluth area. Using tissue obtained at an autopsy, Dr. Selikoff and his colleagues from Mount Sinai will compare asbestos accumulation in residents with that of asbestos workers and of persons believed to have minimal exposure to the persistent mineral fibers.

Dr. Selikoff and Dr. E. J. Hammon of the American Cancer Society have already begun outlining studies to determine whether the residents of the Duluth area might have had ready shown evidence of asbestos-related health effects.

But even if no definite potential health effect can be readily defined, the finding of asbestos particles in the water supply is expected to strengthen the Government's case against

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