

ILLINOIS POLLUTION CONTROL BOARD
August 5, 1982

VILLAGE OF GLASFORD,)
)
 Petitioner,)
)
 v.) PCB 82-42
)
 ILLINOIS ENVIRONMENTAL)
 PROTECTION AGENCY,)
)
 Respondent.)

CONCURRING OPINION (by J.D. Dumelle):

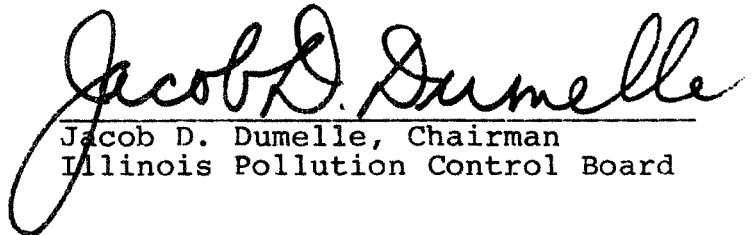
This variance authorizes fluoride levels of up to 4.0 mg/l in Glasford's drinking water.

An article in Science magazine of July 2, 1982 titled "Fluorides and the Changing Prevalence of Dental Caries" by Dr. Dennis H. Leverett describes increasing rates of dental fluorosis among children in communities not fluoridating their drinking water (p.29).


Dr. Leverett indicates that total fluoride is increasing in the diet. Because of this he feels that the 1.0 mg/l fluoride requirement recommended nationally in 1957 for drinking water ought to be re-examined and may, in fact, be now too high.

A series of articles in Environment in 1973 and 1974 by Prival and Fisher discuss "skeletal fluorosis," which in an extreme case, can be crippling.

The Board needs a study of total body burden of fluoride and on the prevalence of both dental fluorosis and skeletal fluorosis in Illinois.


Jacob D. Dumelle, Chairman
Illinois Pollution Control Board

I, Christan L. Moffett, Clerk of the Illinois Pollution Control Board, hereby certify that the above Concurring Opinion was filed on the 9th day of August, 1982.


Christan L. Moffett, Clerk
Illinois Pollution Control Board