

4. Assuming that the high results given include the maximum error of four times, it then follows that the alpha activity is primarily the result of a high radium content. Because of radium's high relative biological effectiveness (RBE) Rule 304 C 1(a) states that activity caused by radium -266 and radium -228 shall not exceed 5 pCi/l; and
5. Rule 309 C 1(a)(1) states that monitoring requirements for radium -226 and radium -228 may be provided by gross alpha particle activity if such activity does not exceed 5 pCi/l at confidence of ninety-five percent.

Respectfully submitted,


Donald P. Satchell

I, Christan L. Moffett, Clerk of the Illinois Pollution Control Board, hereby certify that the above Concurring Opinion was filed on the 29th day of January, 1981.


Christan L. Moffett, Clerk
Illinois Pollution Control Board