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MUC-JH 270

P. O. Box 653
Richland, Washington
September 6, 1944

Mr. J. C. Stearns
P. O. Box 5207
Chicago, Illinois

Attention: W. Goldowski

Dear Dr. Goldowski:

I had hoped to answer your letter of August 12th by personal conversation during my recent visit to the Laboratory. However, I found you were on vacation at the time.

The attached table will give you a reasonably good idea of the composition of the river water as it is running at present. I believe you may be confident of the value given for the chloride content of the water since the results by the URM Group have been checked by two other independent groups: namely, the Corrosion Group in Chicago and the Analytical Section in Chemistry. It should be pointed out that the attached data do not represent the composition of the water as it finally reaches the AI tubes. This is not determined precisely as yet inasmuch as the water handling equipment is not thoroughly broken in and standardized. You will be interested in the fact that the chlorination treatment to prevent the algae growth does increase the chloride ion content to slightly over 1 ppm.

The Corrosion Section in the Technical Division should have in its files some information on the subject you are interested in. I am attempting to keep the Laboratory posted on these points and shall send information on water composition from time to time. I believe you could keep up to date most simply through inquiries to Mr. Bruggam.

Sincerely yours,

John P. Howe

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This document consists of

2 pages

1 of 1 pages

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The Corrosion Section files some information on the to keep the Laboratory posted on water composition from time most simply through inquiries

CLASSIFICATION CANCELLED

DATE 4-18-62

For The Atomic Energy Commission

H. B. Canale
Chief, Declassification Branch

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CHX - COLUMBIA
FILTERED RIVER WATER

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Season

March 21, '44 to June 21, '44

Comparison

Ave.

Max.

Min.

As Received

Turbidity as SiO_2	2	4.5	0
Suspended Solids	1.5	3.8	0.05
Loss on Ignition	0.5	1.4	1.0 (gain)
Non Volatile S.S.	1.0	2.6	0.0
Suspended SiO_2	0.2	0.8	0.0
Total Fe	0.10	0.7	0.01
Total Cu	0.027	0.087	0.007

Laboratory Filtered

Color A.P.H.U.	5	5	5
Math. Alk. as $CaCO_3$	0.0	0.0	0.0
M.O. Alk. as $CaCO_3$	58	68	48
Soap Hardness as $CaCO_3$	68	94	64
Dissolved Solids	98	123	85
Loss on Ignition	30	41	25
Non Volatile D.S.	68	82	52
Dissolved SiO_2	7	8	4
Dissolved Fe	0.00	0.20	0.00
Aluminum as Al			
Nickel as Ni	0.000	0.002	0.000
Calcium as Ca	23	27	18
Magnesium as Mg	6.0	8.0	5.0
Chlorides as Cl	0.6	1.6	0.02
Sulfates as SO_4	22	32	15

• All Analyses in ppm

Unauthorized person is prohibited by law

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DATE

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9 / 7 / 94

END