

To D. Emery: Lab
From Assay
Subject Aerial Arsenic

Date Dec. 17-70
Ref.

Dec. 16	South	0.511 mg
	East	0.410 mg
	North	0.256 mg
	West	0.358 mg

OUT FOR 21 DAYS
Nov 24 - Dec 15 INCL.

Ave 0.38375 mg.

Monitors situated at cardinal points of compass on 1 mile radius from stack.

AVERAGE : 0.38375 mg As in 21 DAYS

AREA OF CONTAINER = $3.142 \times 3.125 \times 3.125$
= 30.68 Sq. ins.

\therefore AS FALLOUT : $0.38375 \text{ mg} / 21 \text{ days} / 30.68 \text{ Sq. ins.}$

= $\frac{0.01827381}{30.68} \text{ mg/day/sq. in.}$

= $\frac{0.01827381 \times 6,272,640}{30.68 \times 1000 \times 453.6} \text{ lbs/day/acre}$

= $\frac{114625}{13916448}$

= 0.0082 lbs As/DAY/ACRE

AREA OF SURROUNDING STACK : $1 \times 1 \times 3.14 \text{ sq. mi.}$

= $3.14 \times 640 \text{ ACRES}$

= $3.14 \times 640 \times 0.0082 \text{ lbs}$

→ = $164.787 \text{ lbs/DAY} \quad 16.4787 \text{ lbs/day.}$

OUT FOR 21 DAYS
Nov 21 - Dec 12, 1954.

Has 63,333.00

Amount: 63,333.00 in 21 days

Rate of Commission: 2.1% = 1,330.00

= 30.00 2.1% =

Net Amount: 63,333.00 / 1.0421 = 60,777.78

60,777.78 / 1.0421 = 58,333.33

58,333.33 / 1.0421 = 55,944.15

11,333.33

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