

TO: D.J. EMERY, A.K. CAMPBELL; H.E. PAXSON, H.E. LANE  
FROM: W. L. RICHARDSON

SUBJECT: AERIAL ARSENIC MONITORING

APRIL 19/72

TESTS CARRIED OUT: MARCH 2/72 TO APRIL 19/72

ONE MILE RADIUS OF STACK:

NORTH	0.41198	Mg	in	42 DAYS	} AVERAGE: 0.014734 Mg/day
SOUTH	0.67324	-	-	42 DAYS	
EAST	0.67994	-	-	37 DAYS	

ARSENIC FALLOUT: 0.00664 lbs/acre/day

TWO MILE RADIUS OF STACK:

NORTH	0.51504	Mg	in	35 DAYS	} 0.010868 Mg/day
SOUTH	0.38980	-	-	42 DAYS	
EAST	0.36148	-	-	42 DAYS	

~~ARE~~ ARSENIC FALLOUT: 0.00489 lbs/acre/day

W.L. RICHARDSON  
MILL CHEMIST

TEST CARRIED OUT MARCH 2/72 TO APRIL 19/72

ONE MILE RADIUS OF STACK:

NORTH	0.41148 Mgr	14	42 DAYS = .009797 Mgr/day	} .014734 Mgr/day
SOUTH	0.67324	✓	42 DAYS = .016029 Mgr/day	
EAST	0.67994	✓	37 DAYS = .018377 Mgr/day	

$$\text{ARSENIC FALLOUT: } \frac{.014734 \times 6272640}{1000 \times 453.6 \times 30.68} = 0.00664 \text{ lbs/pers/day}$$

TWO MILE RADIUS OF STACK:

NORTH	0.51504 Mgr	14	35 DAYS = .014715 Mgr/day	} .010868 Mgr/day
SOUTH	0.38980 Mgr	14	42 DAYS = .009281 Mgr/day	
EAST	0.36148 Mgr	14	42 DAYS = .008607 Mgr/day	

$$\text{ARSENIC FALLOUT: } \frac{.010868 \times 6272640}{1000 \times 453.6 \times 30.68} = 0.00489$$