

January 8, 1945

Dr. J. E. Wirth,
Medical Director,
Clinton Laboratories,
P. O. Box 1991,
Knoxville 11, Tenn.

Dear Dr. Wirth:

I am sending you herewith a report of the results obtained on the series of ten tubes used for the collection of lead from air samples.

I believe that you will find these results generally self explanatory, but perhaps it would be wise to comment briefly on the three excessively high results. You will note that reference is made to the fact that the caps on certain of the tubes appeared to be contaminated with metallic material. This does not permit us to disregard the significance of the high results, although it does cast some slight doubt upon #7 and #9. It so happens that #9 appears to be in keeping with #4, and therefore the factor of contamination need not be regarded as significant in the case of #9. Both of these results are quite high, but they are not particularly surprising to me in view of results we have obtained under conditions apparently somewhat similar. All in all it seems quite clear to me that there are evidences of excessive lead exposure in connection with certain of your operations. No doubt you are familiar with the standard of 1.5 mgs. per 10 cubic meters as the upper limit of safe exposure for regularly incurred occupational exposure.

For the sake of our own convenience I enclose herewith a bill to cover the actual cost of the services rendered in this series of observations.

Very truly yours,

Robert A. Kehoe, M. D.

RAK ef

Enc.

KE 0005327

KE 0005328

Electrolytic Precipator Samples Submitted by Clinton Laboratories, Knoxville

Analysis Number	Description	Volume Liters	Mg. Pb Found	Mg. Pb/10 M ³
44A-7145	#1 -- 3 pots being heated. Strong east wind. Precipitron at hood level 2" from edge.	1274	0.015	0.12
44A-7146	#2 -- At center of pouring table, 4 bricks being poured at a time, 3 pots heating. Gusty east wind.	1274	0.09	0.71
44A-7147	#3 -- Sawing 2-1/2" round stock. Precipitron at head height 24" to one side.	1274	0.012	0.09
44A-7148	#4 -- One man burning lead continuously in shack. Sample taken at level of worker's head.	1274	1.1	8.65
44A-7149	#5 -- 4 pots being heated. No wind. Instrument 1' from edge at hood height.	1274	0.03	0.23
44A-7150	#6 -- 2 heavy pieces being poured simultaneously. 4 pots heating. No wind. Precipitron on table.	1274	0.05	0.39
44A-7151	#7 -- Room closed; all doors shut; pouring 4 bricks; 1 pot heating. Instrument on table.	1274	0.44	3.45
44A-7152	#8 -- 1 pot being heated in enclosure; 1 door open; instrument near pot at head level.	1274	0.07	0.55
44A-7153	#9 -- 2 men burning lead simultaneously; doors and windows closed. Instrument at head level level 3' from work.	1274	3.42	26.8
44A-7154	#10 -- Blank	?	0.0006	

*Pieces of metal were noted on outside and inside of the rubber caps. Deposits of such pieces. Caps of #7, #9, and #10 appeared to be badly contaminated with this m

Samples Received: 12-2

*Mr. Cholde
Please will come in
not taking any time
Please return with report.*

CLINTON LABORATORIES

P. O. BOX 1991

KNOXVILLE 11, TENNESSEE

December 14, 1944

Dr. Robert A. Kehoe
College of Medicine
Eden Avenue
Cincinnati 19, Ohio

Dear Dr. Kehoe:

Under separate cover we are returning the ten tubes used in precipitron for collecting air samples. Below is a list under which conditions these samples were collected.

All Runs 15 Minutes at 3 C.F.M.

- ✓#1 - 3 pots being heated - strong, gusty east wind precipitron at hood level 2" from edge of hood.
- ✓#2 - Precipitron on center of pouring table while bricks were being poured 4 at a time, 3 pots heating. Gusty east wind.
- ✓#3 - While cutting 2 $\frac{1}{2}$ " round stock with circular saw inside of shack. Precipitron at head height 24" to one side. Opening shielded with plastic face shield.
- ✓#4 - In shack. One man burning lead continuously. Instrument at about position of workers head.
- ✓#5 - 4 pots being heated. Instrument 1 foot from edge at hood height. Practically no wind.
- ✓#6 - 2 heavy pieces being poured simultaneously. 4 pots heating. Precipitrons on table at head height. No. wind.
- ✓#7 - Pouring room enclosed. All doors shut. Instrument on table at head height. 4 bricks being poured. One pot heating.
- ✓#8 - 1 pot being heated in enclosure. Near pot at position of workers head. One door open.
- ✓#9 - 2 men burning lead simultaneously in shack. Instrument at head height 3 feet from work. All doors and windows closed.
- ✓#10 - Blank.

Very truly yours,



J. E. Wirth, M.D.
Medical Director

Robert A. Kehoe, M. D.
College of Medicine Eden Avenue
Cincinnati 19, Ohio

January 8, 1945

Clinton Laboratories,
P. O. Box 1991,
Knoxville 11, Tenn.

Attention: Dr. J. E. Wirth

Analysis for Lead of 10 samples

\$50.00

RE 0005330