

CONFIDENTIAL

Wayne

August 10, 1971

WAYNE

Dr. Robert M. Clyne

Blood Lead Comparison
MacGregor Lead Company

Mr. R. Biel - MacGregor
 Dr. P. Falk - Chicago
 Mr. R. V. Hagy - WI
 Mr. T. E. Hazell - EB
 Mr. W. T. Ries - EB
 Mr. J. A. Schmidlein - EB

Blood samples taken 7/26 and 7/29 for blood lead determinations show 14 lower than the last sample taken and 3 higher. ~~XXXXXXXXXX~~'s increased blood lead level is significant and he should be rechecked weekly. Also ~~XXXXXXXXXX~~ should be rechecked since no sample has been taken since 7/16/71 at which time his level was 0.094 mg.

As a rough guide we should consider doing blood leads on a 2 months basis on employees with lead levels under 0.070 mg., those 0.070 mg. up to 0.100 mg. monthly, and 0.100 mg. and above every 2 weeks. This would be in line with our sampling program at Willow Island and could be extended depending on our future experience.

MacGregor Lead Company supervision is to be commended for their efforts which have resulted in a general lowering of blood leads in the majority of the employees.

WHN:el

Walter H. Marley, Jr., M.D.

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LEAD IN BLOOD

(Results underlined in black are higher than acceptable limits)

Name	Date 7/2/71 mg lead/ 100 g blood	Date 7/8/71 mg lead/ 100 g blood	Date 7/16/71 mg lead/ 100 g blood	Date 7/20/71 mg lead/ 100 g blood	Date 7/29/71 mg lead/ 100 g blood	Date mg lead/ 100 g blood
Cross, E.						
Leake, C.						
Ortega,						
Dadko, C.						
Banasiak, John						
Coburn, R.						
Howard, A.						
Stanford, S.						
Segura, A.						
Maye, Leroy						
Maye, Edison						
*Jackson, R.						
Martin, C.						
Holton, D.						
Morales, D.						
Terzic, B.						
Davis, Aldolph						
Hawkins, C.						
Perz, C.						
Tate, S.						
Avila, J.						
Carite, T.						
Davis, Calvin						
Marvin, B.						
Lee, W.						
Powers, F.						
*Left company						

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July 28, 1971

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Dr. Robert M. Clyne

Blood Lead Comparison
MacGregor Lead Company

Mr. R. Biel - MacGregor
Dr. P. Falk - Chicago
✓ Mr. R. W. Nagy - WI
Mr. T. H. Masell - MS
Mr. W. T. Rice - MS
Mr. J. A. Schindler - MS

Received a phone call from Mr. R. W. Nagy, Willow Island. Results of ~~MacGregor~~ blood lead from General Motors Lab is .140 mg; corresponding result from West Allis Hospital was 0.095 mg.

Mr. Nagy discussed the method of doing blood leads with Dr. Conlon at the West Allis Hospital. They use atomic absorption as we do at Willow Island. However, in preparing the sample they use an acetic acid extraction method which Perkin-Elmer Co. used to recommend until it was discovered there was a lead loss somewhere in this method. Perkin-Elmer now recommends the extraction method we use at Willow Island.

In view of the above we continue to have full confidence in the blood lead results from the Willow Island lab, and see no need for further comparisons with any other laboratory at this time.

The above was discussed by phone with Mr. Biel, MacGregor Lead, and Dr. Falk in Chicago. Dr. Falk does not wish to have Mr. ~~MacGregor~~ return to work until his blood lead level reaches 80 micrograms. Dr. Falk is doing weekly blood leads on Mr. ~~MacGregor~~ as well as hemoglobin determinations. His most recent hemoglobin is 11.5 gms.

Walter H. Hurley, Jr., M.D.

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N14502.02

July 1, 1971

MEMORANDUM FOR

MR. J. E. HARRIS

1000 N. HARRIS
HARRIS TRADING COMPANY

Mr. J. E. Harris - MacGregor
Mr. J. G. Blackett - MI
Mr. A. J. Gray - MI
Mr. P. Falk - Chicago
Mr. W. Morley - MA
Mr. W. E. Smith - MI

In view of the discrepancy in the results between the West Allis Hospital (Wisconsin) and Willow Island Laboratories, a sample (Mr. [REDACTED] 7/16) was sent to the General Motors Industrial Hygiene Laboratories for the determination of lead content (Note: There was insufficient sample for a three way cross check). General Motors reported 0.14 mg Pb per 100 grams of blood vs. 0.25 (Willow Island) and 0.093 (West Allis Hospital) obtained on blood samples taken two weeks prior to the sample tested at General Motors. In view of the time factor, and previous results obtained at Willow Island, the 0.093 appears to be on the low side.

Dr. Conlon (West Allis Hospital Lab Director) was contacted by phone to discuss methods. Both laboratories use atomic absorption to determine the lead content of the treated blood samples. However, for treatment of the blood, West Allis Hospital uses the Berman method vs. the Hessel procedure at Willow Island. Both methods were obtained from Perkin & Elmer; but the Hessel method (used at Willow Island) has replaced the Berman procedure as the one recommended by Perkin & Elmer because Perkin & Elmer found the Berman method of treatment resulted in the loss of lead.

Studies at Willow Island show the recovery of lead by the Hessel method is excellent. Known blood control samples are run with each test.

If you desire any additional information, contact me.

A. W. Gray
A. W. Gray

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