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Haskell Laboratory for
Toxicology and Industrial Medicine
1090 Elkton Road
Newark, DE 19714

From: Robin C. Leonard
Epidemiology Program
[REDACTED]

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To: Barbara Dawson
Cc: [REDACTED]
Subject: C-8 Surveillance

I have looked at the results of the first sample of measurements from the C-8 surveillance project at Chambers Works. As would be expected for base-line samples, there is very little analysis that can be done at this point. It is possible, however, to note a few things about the distributions of the measurements.

Most of the samples had no detectable levels of fluoride ion. I think this indicates that we can assume a baseline of zero for fluoride ion in this group.

The sample measurements for C-8 ranged from below the limit of detection to 61 ppb. There is essentially no difference in the average measurement of C-8 for the operators, mechanics, and lab techs. The standard deviation for these groups, as well as the group as a whole, is very close to the average value. This indicates that there may be fairly large variation both between members of the group, and between samples from each individual. This underlines the importance of obtaining several samples from each of the study participants so that we have a better chance of understanding the sources of the variation in these measurements. This will be very important as we try to follow the disposition of these compounds throughout the cycle of campaign—non-campaign periods.

It is very important that we not overinterpret what is essentially baseline data. The design of the study requires that we wait for the the longitudinal (over time) measurements, both from the workers and from the environmental assays before we try to reach any conclusions about exposure compliance issues.

I hope this is helpful. Please call if you have any questions.

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