

SUGGESTIONS COVERING ADDED SURVEY WORK
TO BE DONE BY CHOPPIN AND WEST

1. On some days the wind is blowing in such a direction that any air pollution which might be in certain large areas adjacent to the plant would have to come from Esso. As an example, when the wind is blowing from the west, the people directly east of the central mechanical building and east of the area between this building and the main office would be receiving most of the pollutants (if any) from Esso. Again, if the wind is blowing from the southwest, the people east of the alcohol plants would be the same.

The plan would be to determine the various pollutants in a straight line from one of these locations on a day when the wind is blowing from the pre-determined significant direction. These analyses would be made at 3 or 4 distances from the plant and tabulated so as to indicate the location of the maximum concentrations of pollutants.

2. Having made the above analyses for varying wind velocities and covering most of the significant sections of the plant, a location could be decided upon to make an hourly check for 8 hours or longer if it appears necessary.
3. There are times when the wind is in such a direction and of such velocity that a number of plants effluents become additive. As an example, a strong wind from the north northwest blends the air effluents from Ideal, Consolidated Chemical, Kaiser, Ethyl, with some Esso units such as Knox Field Tank Field, Dewaxing Plants and the Catalytic Cracking units. It would seem desirable to do some work at these times to determine the maximum ground level concentrations and the distance they occur from the refinery with data to indicate the concentrations of any compounds where Esso might contribute.
4. Should we have complaints covering specific conditions such as H₂S odors, gasoline odors or lachrymators, samples might be obtained to indicate the part (if any) Esso is contributing.

J. E. MILLER

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Oil Conservation Dept.
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