



Interoffice Communication

CONFIDENTIAL

To Recipients of TSR NO. 260-81-804-8
From Harrell T. Ford
Date May 20, 1981
Subject GCMS Analysis of Effluent Water Extracts

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The capillary column GCMS method used to do the analysis reported in TSR NO. 260-81-804-8 identifies and quantifies priority pollutants above >10 ppb levels more reliably than EPA Method 625. Persons intimate with the use of packed GC columns...a proviso of Method 625...both inside and outside EPA generally agree that capillary GC columns are superior to packed columns for separation of organic pollutants extracted from plant effluent waters. Inherrently, MS identifications become more positive as mixtures become less complex, therefore MS identifications of capillary separates are more positive than those from packed columns.

TSR NO. 260-81-804-8 also shows priority pollutants identified via MANYTP (see report) with calculated concentrations below 10 ppb. Though these identifications have not been verified manually as the >10ppb compounds reported have been verified, their actual presence in the sample is probable. All the data is available from magnetic tape for more detailed analysis should it be required at a later date.

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