

INTER-OFFICE MEMO **TENNECO CHEMICALS, INC.**

TO H.B. Carr AT Burlington DATE March 15, 1971
FROM F.W. Kanzler AT Burlington COPY TO C.C. Cattell
SUBJECT BOD Analyses N.J. Quist
File

Reference: Memo H.B. Carr from F.W. Kanzler,
dated 3/3/71

As reported in the referenced memo, a set of AI and FCE samples were started for BOD analysis on 3/2/71. The samples were run beyond the five-day analysis period due to disagreement of results between the replication of the AI and FCE samples (Table I attached). No explanation can be given for the decrease in the rate of the BOD rise for AI 1 and FCE 3 samples. It is speculated, however, that at least in the case of AI 1, a nitrification of the sample took place.

The calculated five-day BOD values are:

AI 2	576
FCE 4	166

The ten-day BOD results showed the following calculated levels:

AI 2	678
FCE 4	206

The BOD reduction AI/FCE of the four-day samples showed 72.2%, while the ten-day results showed a 70.1% reduction. The corresponding COD value for the same samples were:

AI	550
FCE	270

Further BOD analyses will be performed with the aim of a better reproducibility of the results between a single sample.

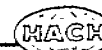
Fred W. Kanzler.
F.W. Kanzler

Attachment.

FWK/jt

TABLE I

SAMPLE NUMBER	1	2	3	4	5
PLOTTING CODE	x	o	□	o	-
SAMPLE SOURCE	AI 3-2-71	AI 3-2-71	FCE 3-2-71	FCE 3-2-71	SEED
SAMPLE VOLUME	157 SEED	157 SEED	157 SEED	157 SEED	157
SAMPLE DILUTION	1/4 10%	1/2 10%	1/4 10%	10%	1/2



HACH CHEMICAL COMPANY

DATE 3-2-71
 TIME 1600
 ANALYST _____

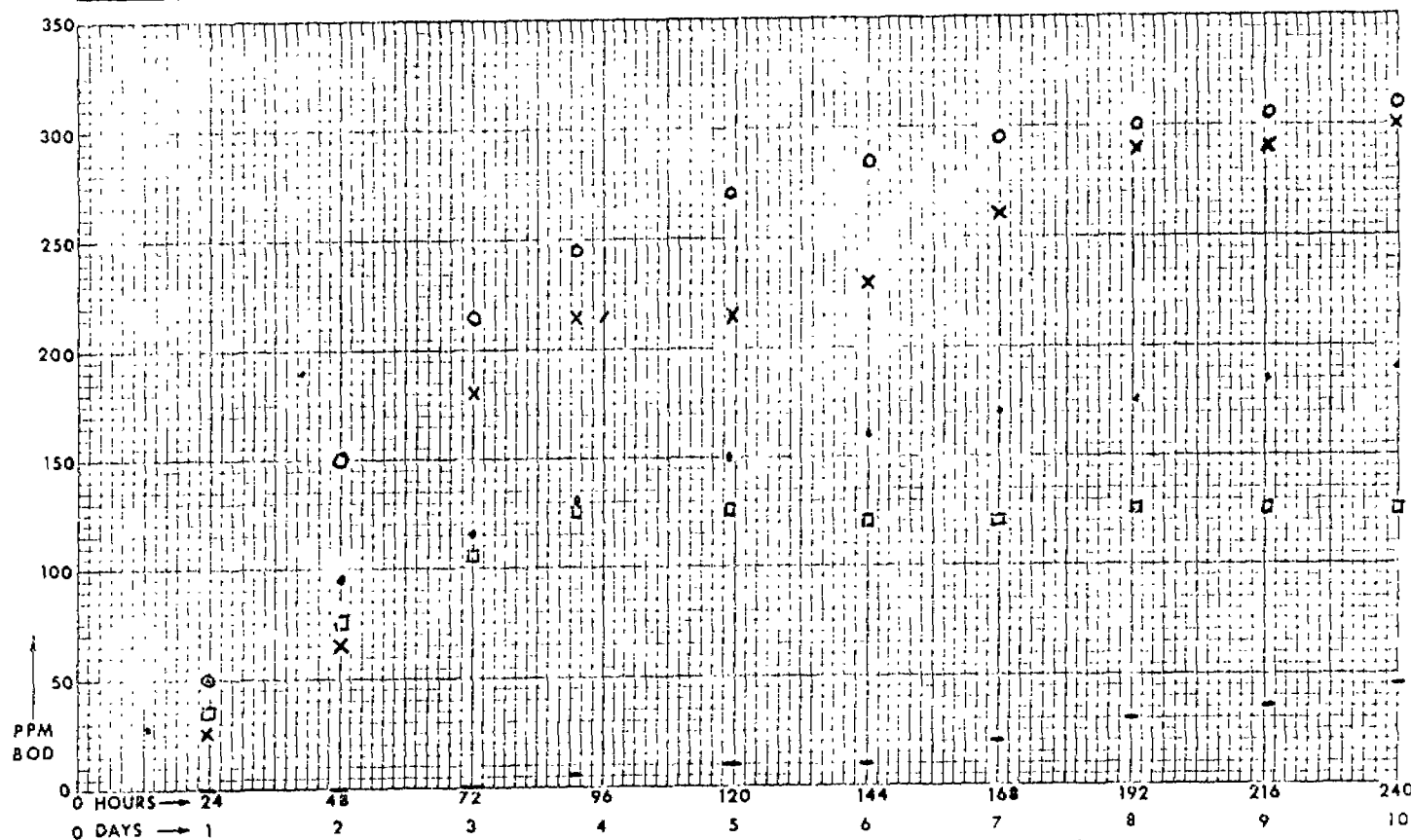


FIGURE 4

BOD DATA CHART

COLORITE 013669