

CENTRAL FILES NUMBER

File 44-11-134

Those eligible  
To read the  
Attached

Date 11-9-44

Subject CLINTON CHEMICAL WASTE  
SAMPLES

By B. C. Nylan

To J. G. Hamilton

Copy #2 *J. E. Smith*

*XT*

Before reading the document, sign the date below

Name	Date
<i>J. E. Smith</i>	<i>11/11/44</i>

Name	Date

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- 2. J. E. Wirth
- 3. B. C. Nylan
- 4. Reading File
- 5. Central File

# CLINTON LABORATORIES

P. O. BOX 1991

KNOXVILLE 11, TENNESSEE

This document consists of 2 pages and 0 figures.  
 No. 2 of 5 copies, Series A.

November 9, 1944

Dr. J. G. Hamilton  
 P. O. Box 528  
 Berkley, California

Dear Dr. Hamilton:

### CLINTON CHEMICAL WASTE SAMPLES

We are attaching a tabulation of the chemical and spectro-chemical analyses of constituents present in macroscopic quantities in W-5 waste liquor. As indicated in our letter of October 26 a sample was taken as soon as possible, however, due to the low level in W-6 it was necessary to sample the surface of W-5 prior to overflow. We feel this to be fundamentally representative of the analysis to be expected in the 10 gallon sample of W-6 discharge recently forwarded.

We note that the description of typical wastes shown in our letter of October 26 contains the heading "After Other Wastes". This should read "All Other Wastes". We hope this error has not caused undue difficulty in interpretation of our letter.

Very truly yours,

M. D. WHITAKER, DIRECTOR  
 CLINTON LABORATORIES

By B. C. Nylan  
 B. C. Nylan

CLASSIFICATION CANCELLED  
 DATE 8-13-64  
 For The Atomic Energy Commission  
H. B. Connel

Attaching: Declassification Branch

BCN/maw

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This document has been approved for release to the public by:

David R. Harris 5/28/95  
 Technical Information Officer ORNL Site Date

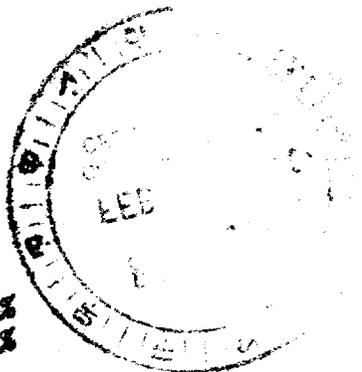
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Analysis of Feed to W-6 Tank

Ionic analysis of the sample representing material fed into W-6 tank, have been completed, and results are listed below.

Analytical results are based on the total sample submitted; that is, the total sample was agitated well before portions were drawn for chemical analysis.

Sp. Gr.	- 1.08
Total solids	- 11.2% (Non Volatile material)
Total solids as oxides	- 4.8%
PO <sub>4</sub>	- 1.4%
NO <sub>3</sub>	- 5.1%
CO <sub>3</sub>	- 0.5%
SO <sub>4</sub>	- 0.2%
Cl	- Nil
Na	- 3.3%
U	- 0.08%
Fe	- 0.03%
Zr	- 0.0002%
Bi	- 0.0004%
Ni	- Nil
Cr	- Nil



Spectrochemical Analysis

Al -	.01 - 1.0%
Bi -	<.01%
Ca -	.01 - 1.0%
Cr -	.01 - 1.0%
Fe -	.01 - 1.0%
K -	>1.0%
La -	.01 - 1.0%
Mg -	<.01%
Mn -	<.01%
Na -	>1.0%
Ni -	.01 - 1.0%
P -	.01 - 1.0%
Si -	.01 - 1.0%
U -	>1.0%
F -	.01 - 1.0%

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