Volume I Copy 1

WAYNE S. DAVIS

hackensack, n.j.

SECTION I

PROJECT NARRATIVE FOR JOB #50705 URS/DALTON PAS ENVIRONMENTAL ASSESSMENT

On 5/1-3/85, seven water samples, and eight sediment samples were received for analysis as listed in the N.Y.S.D.E.C. Superfund and Contract Laboratory Protocol, January, 1985. In addition to these analysis it was requested that Ammonia, Total Kjeldahl Nitrogen, Nitrate, Nitrite, Phenolics, Orthophosphate, Total Phosphorous, Dissolved Solids, Suspended Solids, and Total Organic Carbon be analyzed for on the seven water samples, and Phenolics analysis and grain size determination be performed on the eight sediment samples. It was agreed that these additional analysis would be performed in a manner that would approximate the contract laboratory protocol as closely as possible.

All fractions delivered for organics analysis were subsequently shipped to CompuChem Laboratories, Triangle Park, North Carolina. Work was completed in early June and the report assembled during the following two weeks.

Presented herein is all analytical data for the inorganic and wet chemistry (classical) parameters requested. I hope you find all in order. Please do not hesitate to call should you have any questions.

Sincerely,

GENERAL TESTING CORPORATION

Marshall Shannon

Marshall Shannon

general testing corporation
710 Exchange Street
Rochester, NY 14608

Date June 28, 1985

COVER PAGE

ANALYSIS DATA PACKAGE

Lab Name GENERAL TESTING CORP. Job No. 50705

RE: PAS ENVIRONMENTAL ASSESSMENT Q.C. Report No. 50705-1

SAMPLE NUMBERS

Lab ID No.	Lab ID No.
50705-A (PAS-WC-OS-3)	50705-G (PAS-WNC-DS-6)
50705-B (PAS-WC-US-1)	
50705-C (PAS-WNC-US-2)	
50705-D (PAS-WC-US-1A)	
50705-E (PAS-WNC-US-2A)	
50705-F (PAS-WNC-DS-4)	

Comments:

Footnotes:

NR - not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit. Report the value in brackets (i.e.,[10]. Indicate the analytical method used with P (for ICP/Flame AA) or F (for furnace).

U - Indicates element was analyzed for but not detected. Report with the dection limit value (e.g., 10U).

W - Indicates a value estimated or not reported due to the presence of interference. Explanatory not included on cover page.

S - Indicates value determined by Method of Standard Addition.

R - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

- - Indicates the correlation coefficient for method of standard addition is less than 0.995.

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM I

Sample No.

PAC-WC-05-3

Date June 28, 1985

WET CHEM ANALYSIS DATA SHEET

LAB NAME GENERAL TESTING CORP. JOB NO. 50705

AB SAMPLE ID. NO. 50705-A QC REPORT NO. 50705-1

Elements Identified and Measured

Concentration: Low X Medium

Matrix: Water X Soil Sludge Other

mg/L ot mg/kg dry weight (Circle One)

1. Ammonia	4.3	13.	
2. Tot. Kjeldahl Nitrogen	6.9	14.	
3. Nitrate	0.95	15.	
4. Nitrite	0.05	16.	
5. Phenolics	0.010	17.	
6. Ortho phosphate	0.05 u	18.	
7. total phosphorous	0.65	19.	
8. Dissolved solids	620	20.	
9. Suspended solids	3.3	21.	
10. Total organic carbon	9.9	22.	
11.		23.	
12.		24.	

Footnotes: Standard result qualifiers are used as defined on Cover Page.

Comments: Ammonia, TKN, Nitrate, Nitrite, all reported as N

Ortho phosphate and Total phosphorous reported as P

Lab Manager Michael K. Peng

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM I

Sample No.

PAS-WC-US-1

Date June 28, 1985

WET CHEM ANALYSIS DATA SHEET

LAB NAME GENERAL TESTING CORP. JOB NO. 50705

LAB SAMPLE ID. NO. 50705-B QC REPORT NO. 50705-1

Elements Identified and Measured

Concentration: Low X Medium

Matrix: Water X Soil Sludge Other

[aq/L] or mg/kg dry weight (Circle One)

1.	Ammonia	4.8	13.
2.	Tot. Kjeldahl Nitrogen	6.6	14.
3.	Nitrate	0.50	15.
4.	Nitrite	0.05 u	16.
5.	Phenolics	0.009	17.
6.	Ortho phosphate	0.05 u	18.
7.	Total phosphorous	0.05 u	19.
8.	Dissolved solids	620	20.
9.	Suspended solids	7.3	21.
10.	Total organic carbon	10.0	22.
11.			23.
12.			24.

Footnotes: Standard result qualifiers are used as defined on Cover Page.

Comments: Ammonia, TKN, Nitrate, Nitrite, all reported as N

Ortho phosphate and Total phosphorous reported as P

Lab Manager Michael K. Perry

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM I

Sample No.

PAS-WNC-US-2

Date June 28, 1985

WET CHEM ANALYSIS DATA SHEET

LAB NAME GENERAL TESTING CORP. JOB NO. 50705

LAB SAMPLE ID. NO. 50705-C QC REPORT NO. 50705-1

Elements Identified and Measured

Concentration: Low X Medium

Matrix: Water X Soil Sludge Other

(mg/L) or mg/kg dry weight (Circle One)

1.	Ammonia	0.46	13.
2.	Tot. Kjeldahl Nitrogen	0.54	14.
3.	Nitrate	0.40	15.
4.	Nitrite	0.05 u	16.
5.	Phenolics	0.007	17.
6.	Ortho phosphate	0.14	18.
7.	Total phosphorous	74	19.
8.	Dissolved solids	360	20.
9.	Suspended solids	4.0	21.
10.	Total organic carbon	10.8	22.
11.			23.
12.			24.

Footnotes: Standard result qualifiers are used as defined on Cover Page.

Comments: Ammonia, TKN, Nitrate, Nitrite, all reported as N

Ortho phosphate and Total phosphorous reported as P

Lab Manager Michael K. Perry

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM I

Sample No.

PAS-WC-US-1A

Date June 28, 1985

WET CHEM ANALYSIS DATA SHEET

LAB NAME GENERAL TESTING CORP. JOB NO. 50705

L B SAMPLE ID. NO. 50705-D QC REPORT NO. 50705-1

Elements Identified and Measured

Concentration: Low X Medium

Matrix: Water X Soil Sludge Other

mg/L or mg/kg dry weight (Circle One)

1.	Ammonia	0.37	13.
2.	Tot. Kjeldahl Nitrogen	0.20 u	14.
3.	Nitrate	0.10 u	15.
4.	Nitrite	0.05	16.
5.	Phenolics	0.006	17.
6.	Ortho phosphate	0.05	18.
7.	Total phosphorous	0.05 u	19.
8.	Dissolved solids	180	20.
9.	Suspended solids	4.2	21.
10.	Total organic carbon	6.3	22.
11.			23.
12.			24.

Footnotes: Standard result qualifiers are used as defined on Cover Page.

Comments: Ammonia, TKN, Nitrate, Nitrite, all reported as N

Ortho phosphate and Total phosphorous reported as P

Lab Manager Michael K. Peng

general testing corporation
710 Exchange Street
Rochester, NY 14606

FORM I

Sample No.

PAS-WNC-US-2A

Date June 28, 1985

WET CHEM ANALYSIS DATA SHEET

LAB NAME GENERAL TESTING CORP. JOB NO. 50705

LAB SAMPLE ID. NO. 50705- E QC REPORT NO. 50705-1

Elements Identified and Measured

Concentration: Low X Medium

Matrix: Water X Soil Sludge Other

mg/L or mg/kg dry weight (Circle One)

1.	Ammonia	0.62	13.
2.	Tot. Kjeldahl Nitrogen	0.74	14.
3.	Nitrate	0.19	15.
4.	Nitrite	0.05 u	16.
5.	Phenolics	0.007	17.
6.	Ortho phosphate	0.14	18.
7.	Total phosphorous	180	19.
8.	Dissolved solids	300	20.
9.	Suspended solids	5.0	21.
10.	Total organic carbon	10.9	22.
11.			23.
12.			24.

Footnotes: Standard result qualifiers are used as defined on Cover Page.

Comments: Ammonia, TKN, Nitrate, Nitrite, all reported as N

Ortho phosphate and Total phosphorous reported as P

Lab Manager Michael K. Perry

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM I

Sample No.

PAS-WNC-OS-4

Date June 28, 1985

WET CHEM ANALYSIS DATA SHEET

LAB NAME GENERAL TESTING CORP. JOB NO. 50705

LAB SAMPLE ID. NO. 50705-F QC REPORT NO. 50705-1

Elements Identified and Measured

Concentration: Low X Medium

Matrix: Water X Soil Sludge Other

mg/L or mg/kg dry weight (Circle One)

1.	Ammonia	0.72	13.
2.	Tot. Kjeldahl Nitrogen	1.3	14.
3.	Nitrate	1.0	15.
4.	Nitrile	0.05 u	16.
5.	Phenolics	0.008	17.
6.	Ortho phosphate	0.09	18.
7.	Total phosphorous	0.14	19.
8.	Dissolved solids	470	20.
9.	Suspended solids	3.5	21.
10.	Total organic carbon	11.5	22.
11.			23.
12.			24.

Footnotes: Standard result qualifiers are used as defined on Cover Page.

Comments: Ammonia, TKN, Nitrate, Nitrite, all reported as N

Ortho phosphate and Total phosphorous reported as P

Lab Manager Michael K. Perry

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM I

Sample No.

PA5-WNC-DS-6

Date June 28 , 1985

WET CHEM ANALYSIS DATA SHEET

LAB NAME GENERAL TESTING CORP. JOB NO. 50705

LAB SAMPLE ID. NO. 50705- G QC REPORT NO. 50705-1

Elements Identified and Measured

Concentration: Low X Medium

Matrix: Water X Soil Sludge Other

(mg/L) or mg/kg dry weight (Circle One)

1.	Ammonia	0.33	13.
2.	Tot. Kjeldahl Nitrogen	0.74	14.
3.	Nitrate	1.1	15.
4.	Nitrite	0.05 U	16.
5.	Phenolics	0.007	17.
6.	Ortho phosphate	0.07	18.
7.	Total phosphorous	35	19.
8.	Dissolved solids	470	20.
9.	Suspended solids	2.8	21.
10.	Total organic carbon	10.1	22.
11.			23.
12.			24.

Footnotes: Standard result qualifiers are used as defined on Cover Page.

Comments: Ammonia, TKN, Nitrate, Nitrite, all reported as N

Ortho phosphate and Total phosphorous reported as P

Lab Manager Michael K. Perry

Section II, Subpart C

QUALITY CONTROL (WET CHEMISTRY) FOR WATER SAMPLES 50705 A-G.

Quality Control data is presented in this subpart covering four basic areas of Quality Control.

1.) Form II: Initial and continuing calibration verification. Initial calibration is performed by analyzing a check sample of known quantity immediately following the analysis of calibration standards. The value obtained for the initial calibration check should be ± 10% of the known value. Continuing calibration is performed at a frequency of 5-10% in the same manner.

2.) Form III: Blank analysis. Reagent blanks (Deionized water containing all reagents used in the analysis) are run immediately following the analysis of calibration standards, and at a frequency of 5-10% throughout the analysis. When appropriate a preparation blank is analyzed which has been subjected to all prepatation procedures performed on the samples prior to analysis. All blanks should be less than the detection limits stated.

3.) Form V: Spiked Sample Recovery. During the course of an analytical run samples are selected at a tandom frequency of 10% to be spiked with a known amount of the analyte. In this way Matrix effects (constituents in the sample which bias the analysis in a positive or negative manner) are detected and steps may be taken to eliminate this effect. Recovery of spikes should be within the stated limits and if not the data fragged with an "R".

4.) Form VI: Duplicates. During the course of an analysis samples are selected at a random frequency of 10% for duplicate analysis. A % relative error is calculated for each and should not exceed the stated limits. Duplicates exceeding the limits are flagged with an *.

It should be noted that many of the analysis performed in our Wet Chemistry area are run on Auto Analysis Systems controlled by a computer which monitors blanks and continuing calibration standards, and takes this data into account when calculating sample values.

There were no major Quality Control problems encountered during the analysis of these samples. Several individual pieces of Quality Control data are flagged on report forms V & VI, but average run Quality Control performance was found to be acceptable.

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM II

Q. C. Report No. 50705-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION[3]

LAB NAME General Testing Corporation JOB NO. 50705

DATE June 28, 1985 UNITS mg/L

	Compound	Initial Calib.[1]			Continuing Calibration[2]					
		True Value	Found	%R	True Value	Found	%R	Found	%R	Method[4]
1.	Ammonia	1.90	1.82	95.7	1.00	1.02	102	1.05	105	E.P.A. 350.1
2.	TKN	5.28	5.20	98.5	3.00	2.65	88.3	2.78	92.7	E.P.A. 351.2
3.	Nitrate	1.43	1.53	107	1.00	0.97	97	0.97	97	E.P.A. 353.2
4.	Nitrite	1.00*	0.983	98.3	1.00	1.04	104			
5.	Phenolics	0.036	0.039	108	0.0700	0.0745	106	0.0663	94.7	E.P.A. 420.2
6.	O-PO4	0.350	0.331	94.6	1.00	1.01	101			E.P.A. 365.1
7.	T.-Phos.	1.37	1.48	108	1.00	0.946	94.6	0.900	90.0	E.P.A. 365.4
8.	Dis. Solids				1.37**	129	94.2			E.P.A. 160.1
9.	Sus. Solids				108**	101	93.5	102	94.4	E.P.A. 160.2
10.	TOC				6.1**	6.7	110	7.0	115	E.P.A. 415.1
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
21.										
22.										
23.										
24.										
Other:										

[1] Initial Calibration Source U.S.E.P.A. Check Samples

[2] Continuing Calibration Source Mid-range Standards
*Mid-range Standard Used
**U.S.E.P.A. Check Sample Used

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM III

Q. C. Report No. 50705-1

BLANKS

NAME General Testing Corporation JOB NO. 50705

DATE June 28, 1985 UNITS mg/l

Matrix Water

Preparation Compound	Initial Calibration Blank Value	Continuing Calbration Blank Value 1	2	3	4	Preparation Blank 1	2
1. Ammonia	<0.05	<0.05	<0.05	<0.05			
2. TKN	<0.20	<0.20	<0.20				
3. Nitrate	<0.05	<0.05	<0.05	<0.05	<0.05		
4. Nitrite	<0.05	<0.05					
5. Phenolics	<0.005	<0.005	<0.005				
6. O-PO_4	<0.05	<0.05					
7. T-Phos.	<0.05	<0.05	<0.05	<0.05			
8. Dis. Solids						<2.0	
9. Sus. Solids						<1.0	
10. TOC	<2.0	<2.0	<2.0				
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							
24.							

Other:

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM V

Q. C. Report No. 50705-1

SPIKE SAMPLE RECOVERY

B NAME General Testing Corporation

JOB NO. 50705

Parameter Ammonia

TE June 28, 1985

Units mg/l

Matrix Water

Sample I.D. #	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]
1. 50739B	100 ± 10	0.795	0.320	0.500	93.8
2. 504305A	100 ± 10	0.793	0.372	0.500	84.2 "R"
3. 50774A	100 ± 10	0.803	0.306	0.500	99.6
4.					
6.					
8.					
10.					
12.					
13.					
15.					
17.					
19.					
23.					
24.					

Other:

%R = [(SSR - SR)/SA] x 100

"R" - out of control

Comments: average sp

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM V

Q. C. Report No. 50705-1

SPIKE SAMPLE RECOVERY

LAB NAME General Testing Corporation JOB NO. 50705

Parameter TKN

DATE June 28, 1985 Units mg/l

Matrix Water

Sample I.D. #	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]
1. 50705G	100 ± 10	1.95	0.82	1.00	113"R"
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

Other:

%R = [(SSR - SR)/SA] x 100

"R" - out of control

Comments:

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM V

O. C. Report No. 50705-1

SPIKE SAMPLE RECOVERY

B NAME General Testing Corporation

JOB NO. 50705

Parameter Nitrate

TE June 28, 1985

Units mg/l

Matrix Water

Sample I.D. #	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]
1. 50705A	100 ± 15	1.19	1.02	0.200	85.0
2. H04305A	100 ± 15	0.355	0.183	0.200	86.0
3. 50680D	100 ± 15	0.196	<0.100	0.200	98.0
4. 50739A	100 ± 15	0.998	0.849	0.200	74.5 "R"
6.					
8.					
10.					
12.					
15.					
17.					
19.					
24.					
Other:					

%R = [(SSR - SR)/SA] x 100

"R" - out of control

Comments: average spike sample recovery was within limits.

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM V

Q. C. Report No. 50705-1

SPIKE SAMPLE RECOVERY

JOB NAME General Testing Corporation

JOB NO. 50705

Parameter Nitrite

DATE June 28, 1985

Units mg/l

Matrix Water

Sample I.D. #	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]
1. 50705F	100 ± 10	0.232	0.042	0.191	99.5
2. 50705	100 ± 10	0.240	0.022	0.200	109
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

Other:

[1] %R = [(SSR - SR)/SA] x 100

"R" - out of control

Comments:

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM V

Q. C. Report No. 50705-1

SPIKE SAMPLE RECOVERY

D NAME General Testing Corporation

JOB NO. 50705

Parameter Phenolics

TE June 28, 1985

Units mg/l

Matrix Water

Sample I.D. #	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]
1. 50744N	100 ± 10	0.0491	<0.0050	0.0495	99.1
2. 50770P	100 ± 10	0.0592	0.0100	0.0495	99.3
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
Other:					

%R = [(SSR - SR)/SA] x 100

"R" - out of control

Comments:

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM V

Q. C. Report No. 50705-1

SPIKE SAMPLE RECOVERY

JOB NAME General Testing Corporation JOB NO. 50705

Parameter Ortho-Phosphate

DATE June 28, 1985 Units mg/l

Matrix Water

Sample I.D. #	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]
1. 50705F	100 ± 15	0.272	0.091	0.191	94.8
2. 50705G	100 ± 15	0.236	0.072	0.200	82.0 "R"
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

Other:

%R = [(SSR - SR)/SA] x 100

"R" - out of control

Comments: average spike sample recovery was within limits

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM V

Q. C. Report No. 50705-1

SPIKE SAMPLE RECOVERY

JOB NAME General Testing Corporation JOB NO. 50705

Parameter Total Phosphorous

DATE June 28, 1985 Units mg/l

Matrix Water

Sample I.D. #	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]
1. 50845A	100 ± 10	1.30	0.845	0.495	92.1
2. 50705G	100 ± 10	0.786	0.336	0.495	90.9
3. 50862	100 ± 10	0.623	0.145	0.495	96.5
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
Other:					

[1] %R = [(SSR - SR)/SA] x 100

"R" - out of control

Comments:

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM V

Q. C. Report No. 50705-1

SPIKE SAMPLE RECOVERY

LAB NAME General Testing Corporation JOB NO. 50705

Parameter TOC

DATE June 28, 1985 Units mg/l

Matrix Water

Sample I.D. #	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]
1. 50744A	100 ± 10	15.4	4.5	10.0	109
2. 50744A	100 ± 10	15.3	4.5	10.0	108
3. 50705B	100 ± 10	17.1	9.1	8.0	100
4. 50705B	100 ± 10	17.8	9.1	8.0	109
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

Other:

%R = [(SSR - SR)/SA] x 100

"R" - out of control

Comments:

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM VI

Q. C. Report No. 50705-1

DUPLICATES

LAB NAME General Testing Corporation

JOB NO. 50705

Parameter Ammonia

DATE June 28, 1985

Units mg/l

Matrix Water

Sample I.D. #	Control Limit	Sample(S)	Duplicate (D)	RPD[2]
1. 50739B	11.0	0.320	0.319	0.31
2. G04305A	11.0	0.356	0.388	8.60
3. 50744A	11.0	0.306	0.460	40.2*
4.				
5.				
6.				
7.				
8.				
9.				
10.				
1.				
12.				
3.				
14.				
5.				
16.				
17.				
8.				
19.				
0.				
21.				
2.				
23.				
4.				
Other:				

*Out of Control

To be added at a later date.

[2]RPD = [S - D /((S+D)/2] x 100

NC - Non calculable RPD due to value(s) less than CRDL

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM VI

Q. C. Report No. 50705-1

DUPLICATES

LAB NAME General Testing Corporation

JOB NO. 50705

Parameter TKN

DATE June 28, 1985

Units mg/l

Matrix Water

Sample I.D. #	Control Limit	Sample(S)	Duplicate (D)	RPD[2]
1. 50705G	20.0	0.742	0.896	18.8
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
1.				
12.				
3.				
14.				
5.				
.6.				
17.				
8.				
19.				
0.				
21.				
2.				
23.				
4.				
Other:				

*Out of Control
To be added at a later date.

[2]RPD = [S - D /((S+D)/2] x 100

NC - Non calculable RPD due to value(s) less than CRDL

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM VI

Q. C. Report No. 50705-1

DUPLICATES

LAB NAME General Testing Corporation

JOB NO. 50705

Parameter Nitrate

DATE June 28, 1985

Units mg/l

Matrix Water

Sample I.D. #	Control Limit	Sample(S)	Duplicate (D)	RPD[2]
1. 50705A	8.80	1.01	1.03	1.96
2. H04305A	10.0	3.64	3.68	1.09
3. 50680A	8.80	1.68	1.66	1.20
4. 50680D	8.80	<0.10	<0.10	NC
5. 50739A	8.80	0.862	0.836	3.06
6.				
7.				
8.				
9.				
10.				
1.				
12.				
3.				
14.				
5.				
.6.				
17.				
8.				
19.				
0.				
21.				
2.				
23.				
4.				
Other:				

*Out of Control
To be added at a later date.

[2]RPD = [S - D /((S+D)/2] x 100

NC - Non calculable RPD due to value(s) less than CRDL

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM VI

Q. C. Report No. 50705-1

DUPLICATES

LAB NAME General Testing Corporation

JOB NO. 50705

Parameter Nitrite

DATE June 28, 1985

Units mg/l

Matrix Water

	Sample I.D. #	Control Limit	Sample(S)	Duplicate (D)	RPD[2]
1.	50705F	10.0	<0.05	<0.05	NC
2.	50705G	10.0	<0.05	<0.05	NC
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
1.					
12.					
3.					
14.					
5.					
16.					
17.					
18.					
19.					
0.					
21.					
2.					
23.					
4.					
Other:					

'Out of Control
To be added at a later date.

[2]RPD = [S - D /((S+D)/2] x 100

NC - Non calculable RPD due to value(s) less than CRDL

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM VI

Q. C. Report No. 50705-1

DUPLICATES

LAB NAME General Testing Corporation

JOB NO. 50705

Parameter Ortho-Phosphate

DATE June 28, 1985

Units mg/l

Matrix Water

Sample I.D. #	Control Limit[1]	Sample(S)	Duplicate (D)	RPD[2]
1. 50705F	10.0	0.093	0.089	4.40
2. 50705G	10.0	0.073	0.070	4.20
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
1.				
12.				
3.				
14.				
5.				
16.				
17.				
9.				
19.				
0.				
21.				
2.				
23.				
4.				
Other:				

*Out of Control
To be added at a later date.

[2]RPD = [S - D /((S+D)/2] x 100

NC - Non calculable RPD due to value(s) less than CRDL

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM VI

Q. C. Report No. 50705-1

DUPLICATES

LAB NAME General Testing Corporation

JOB NO. 50705

Parameter Total Phosphorous

DATE June 28, 1985

Units mg/L

Matrix Water

Sample I.D. #	Control Limit	Sample(S)	Duplicate (D)	RPD[2]
1. 50845A	8.00	0.844	0.846	0.24
2. 50705G	20.0	0.346	0.327	5.65
3. 50862	20.0	0.146	0.144	1.38
4.				
5.				
6.				
7.				
8.				
9.				
10.				
1.				
12.				
3.				
14.				
5.				
16.				
17.				
9.				
19.				
0.				
21.				
2.				
23.				
4.				
Other:				

Out of Control

To be added at a later date.

[2]RPD = [S - D /((S+D)/2] x 100

NC - Non calculable RPD due to value(s) less than CRDL

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM VI

Q. C. Report No. 50705-1

DUPLICATES

I B NAME General Testing Corporation

JOB NO. 50705

Parameter Phenolics

I TE June 28 1985

Units mg/l

Matrix Water

Sample I.D. #	Control Limit	Sample(S)	Duplicate (D)	RPD[2]
1 50705G	20.0	0.0069	0.0070	1.44
2. 50744N	20.0	<0.005	<0.005	NC
3. 50770P	20.0	0.010	0.010	0.00
4				
5.				
6				
7.				
8				
9.				
10				
11.				
12				
13				
14.				
15				
16.				
17				
18.				
19				
20.				
21				
22.				
23				
24				

Other:

*O t of Control

1 To be added at a later date.

[2]RPD = [S - D /((S+D)/2] x 100

NC - Non calculable RPD due to value(s) less than CRDL

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM VI

Q. C. Report No. 50705-1

DUPLICATES

LAB NAME General Testing Corporation JOB NO. 50705

Parameter Dissolved Solids

DATE June 28, 1985 Units mg/l

Matrix Water

	Sample I.D. #	Control Limit[1]	Sample(S)	Duplicate (D)	RPD[2]
1	50705B	10.0	621	618	0.48
2.					
3					
4					
5.					
6					
7.					
8					
9.					
10					
11.					
12					
13					
14.					
15					
16.					
17					
18.					
19					
20.					
21					
22.					
23					
24					
Other:					

*Out of Control

1 To be added at a later date.

[2]RPD = [S - D /((S+D)/2] x 100

NC - Non calculable RPD due to value(s) less than CRDL

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM VI

Q. C. Report No. 50705-1

DUPLICATES

LAB NAME General Testing Corporation JOB NO. 50705

DATE June 28, 1985 Parameter Suspended Solids

Units mg/l

Matrix Water

Sample I.D. #	Control Limit	Sample(S)	Duplicate (D)	RPD[2]
1. 50705E	15.0	5.0	6.0	18.0*
2. 50739B	15.0	49	46	6.30
3. 50737C	15.0	42	42	0.00
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
Other:				

*Out of Control

[1] To be added at a later date.

[2] RPD = [S - D /((S+D)/2] x 100

NC - Non calculable RPD due to value(s) less than CRDL

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM VI

Q. C. Report No. 50705-1

DUPLICATES

LAB NAME General Testing Corporation JOB NO. 50705

Parameter TOC

DATE June 28 1985 Units mg/l

Matrix Water

Sample I.D. #	Control Limit	Sample(S)	Duplicate (D)	RPD[2]
1. 50705A	10.0	9.8	9.9	1.02
2. 50705B	"	10.0	9.9	1.01
3. 50705C	"	10.8	10.7	0.93
4. 50705D	"	6.2	6.3	1.60
5. 50705E	"	10.6	11.3	6.39
6. 50705F	"	11.4	11.6	1.74
7. 50705G	"	9.7	10.5	7.92
8. 50705B	"	9.1	9.1	0.00
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
Other:				

*Out of Control

1 To be added at a later date.

[2]RPD = [S - D /((S+D)/2] x 100

NC - Non calculable RPD due to value(s) less than CRDL

Section II, Subpart D

RAW DATA (WET CHEMISTRY) FOR WATER SAMPLES 50705 A-G.

Included in this subpart is raw data in the form of data sheets, computer printouts, recorder charts, standards preparation records, and distillation or digestion records. Raw data for several runs may be presented for a given parameter if more than one rnn was required in order to obtain data for all samples covered in this section.

Subpart D-1: AMMONIA

D-2: TOTAL KJEDAHL NITROGEN

D-3: NITRATE-NITRITE

D-4: NITRITE

D-5: PHENOLICS

D-6: ORTHO-PHOSPHATE

D-7: TOTAL PHOSPHOROUS

D-8: DISSOLVED SOLIDS

D-9: SUSPENDED SOLIDS

D-10: TOTAL ORGANIC CARBON

SECTION II
SUBPART D-1

RAW DATA FOR:

AMMONIA

general testing corporation

gtc

AUTO ANALYZER ANALYSIS: Ammonia

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR 3 sample only	N mg/l
1	2.0 ppm STD.								
2	BLANK								
3	.05 ppm STD.								
4	.10	"							
5	.20	"							
6	.50	"							
7	.70	"							
8	1.00	"							
9	1.50	"							
10	2.00	"	← deleted						
11	BLANK								
12	Nutrient Check Sample		EPA #4						1.82
13	"	"	"		EPA #3				.344
14		50680	A						.30
15		"	B						.71
16		"	C						1.88
17		"	D						.52
18		50687							
19		50739	A						.25
20		"	B				.320		.32
21		"	B	duplicate			.319		
22		"	B	spike (1)			.795		
23		"	C						.13
24		"	D						.22
25		"	E						.11
26		"	F						.43
27		"	G						.14
28		50684	A				.28	500	140
29		"	B				.66	500	330
30	Method BLANK								
31	BLANK Spike (2)						.198		
32	URS-Dalton	50705	A						
33	BLANK								
34	1.00 ppm STD.						1.02		
35	URS-Dalton	50705	B						
36	"	"	C						.46
37	"	"	D						.37
38	"	"	E						.62
39	"	"	F						.72
40	"	"	G						.33

(1) 50 ul 100ppm INTERMEDIATE STOCK Added TO 10 mls of Sample

(2) 20 ul " " " " " "

Repeat file NH3-94

general testing corporation

910

AUTO ANALYZER ANALYSIS: Ammonia

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB #	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR sample only	N mg/l
1		43015	A				.356		.36
2		"	A	duplicate			.388		
3		50739	B	Spike (1)			.795		
4		43015	A	Spike (1)			.793		
5		50687					.327	10	3.3
6		43015	B						.73
7		"	C						.30
8		"	D						.29
9		"	E						.34
10	BLANK	Spike	(.20 ppm) (2)				.214		
11		50744	A				.306	10	3.1
12		"	B				.472	100	47
13		"	C				.07	10	.70
14		"	D				.09	10	.90
15	BLANK								
16	1.00 ppm	STD.					1.04		
17		50744	E				.14	10	1.4
18		"	F					10	repeat
19		"	G				.21	10	2.1
20		"	H				.14	10	1.4
21		"	I				.29	10	2.9
22		"	J				.29	10	2.9
23		"	K				.14	10	1.4
24		"	L				.92	10	9.2
25		"	M				1.05	10	repeat
26		"	N				.17	10	1.7
27		50744	A	duplicate			.462	10	
28		"	B	Spike (1)			.803	10	
29	URS-DAITOM	50705	A				.43	10	4.3 ✓
30	"	"	B				.48	10	4.8 ✓
31	BLANK	Spike	(.20 ppm) (2)				.194		
32	BLANK								
33	1.0 ppm	STD.					1.05		
34		43015						100	repeat
35		50744	B				.472	100	47
36		"	F						1.3
37									
38									
39									
40									

Scott Gobel 5/6/85

Report file
NH3 - 91x

PRECISION:

	High Level	Low Level
Warning Limit:		
Critical Limit:		

First Value	Second Value	A-B	A+B	$\left(\frac{A-B}{A+B}\right)$	$\frac{A-B}{A}$ X 100
729-B .320	.319	.001	.320		0.3%
305-A .356	.388	.032	.372		8.6%
50744-A .306	.460	.154	.383		40%
more confident on this value					

SPIKED RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

False evaluation of reports

Sample Value	Spiked Value	Amount Added	Amount Recovery	% Recovery
0731B .320	.795	.50	.465	93.% micro
Blank < .05	.198	.200	.198	99.0%
305-B .372	.793	.50	.421	84.2% 50 micro R 1.05
Blank < .05	.214	.20	.214	107% EPA
50744A .305	.803	.50	.498	99.6% 50 micro
Blank < .05	.198	.20	.198	99.0%

EPA STANDARD RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

True Value	Analytical Value	% Recovery
1.90	1.82	95.7%
.280	.344	122%

Repeat W-3 Extra

RESULTS FROM RAW DATA FILE NH3-91X.RAW

DATE 5- 8-95 TIME 14:13

METHOD NAME - NH3 1 SAMPLES/HR. - 30
SAMPLE/WASH RATIO - 1.000 SAMPLES/REFERENCE - 20

REF STANDARD CONC. -	"A"	1.000	"B"	.000	"C"	.000	"D"	.000
CHECK SAMPLE CONC. -	"A"	1.900	"B"	.000	"C"	.000	"D"	.000

*** STANDARDS DATA ***

TRAY POS.	STD #	NH3	CHANNEL "B"	CHANNEL "C"	CHANNEL "D"
3	STD-1	3.171	.000	.000	.000
4	STD-2	5.902	.000	.000	.000
5	STD-3	11.359	.000	.000	.000
6	STD-4	27.951	.000	.000	.000
7	STD-5	38.530	.000	.000	.000
8	STD-6	54.343	.000	.000	.000
9	STD-7	77.617	.000	.000	.000
10	STD-8	96.939	.000	.000	.000

*** CHECK SAMPLE RAW RESULTS ***
CHECK SAMPLE I.D. NUMBER ----- N-4

11	BLANK SMPL	-.16704	100.00	100.00	100.00
12	CHECK SMPL	91.982	.00000	.00000	.00000

*** RAW DATA RESULTS ***

TRAY #	SMPL.#	NH3	CHANNEL "B"	CHANNEL "C"	CHANNEL "D"
13	13	19.5	.000	.000	.000
14	14	17.1	.000	.000	.000
15	15	39.2	.000	.000	.000
16	16	95.2	.000	.000	.000
17	17	29.4	.000	.000	.000
18	18	.108E+25	.000	.000	.000
19	19	14.3	.000	.000	.000
20	20	18.3	.000	.000	.000
21	21	16.3	.000	.000	.000
22	22	.334	.000	.000	.000
23	23	7.68	.000	.000	.000
24	24	12.6	.000	.000	.000
25	25	6.12	.000	.000	.000
26	26	24.7	.000	.000	.000
27	27	8.24	.000	.000	.000

*** RAW DATA RESULTS ***

TRAY #	SMPL.#	Ni%	CHANNEL "B"	CHANNEL "C"	CHANNEL "D"
28	28	15.9	.000	.000	.000
29	29	37.0	.000	.000	.000
30	30	.445	.000	.000	.000
31	31	11.6	.000	.000	.000
32	32	.108E+23	.000	.000	.000
33	Blank	.223	.100E+03	.100E+03	.100E+03
34	Ref Std.	55.3	.000	.000	.000
35	35	.108E+23	.000	.000	.000
36	36	3.01	.000	.000	.000
37	37	2.45	.000	.000	.000
38	38	3.95	.000	.000	.000
39	39	41.0	.000	.000	.000
40	40	19.6	.000	.000	.000
41	41	21.1	.000	.000	.000
42	42	22.9	.000	.000	.000
43	43	45.0	.000	.000	.000
44	44	44.9	.000	.000	.000
45	45	19.5	.000	.000	.000
46	46	41.8	.000	.000	.000
47	47	18.2	.000	.000	.000
48	48	17.6	.000	.000	.000
49	49	20.4	.000	.000	.000
50	50	15.0	.000	.000	.000
51	51	18.3	.000	.000	.000
52	52	.108E+23	.000	.000	.000
53	53	4.23	.000	.000	.000
54	54	5.79	.000	.000	.000
55	Blank	.000	.100E+03	.100E+03	.100E+03
56	Ref Std.	55.6	.000	.000	.000
57	57	8.13	.000	.000	.000
58	58	2.67	.000	.000	.000
59	59	12.4	.000	.000	.000
60	60	8.46	.000	.000	.000
61	61	17.3	.000	.000	.000
62	62	17.3	.000	.000	.000
63	63	8.18	.000	.000	.000
64	64	31.9	.000	.000	.000
65	65	1.95	.000	.000	.000
66	66	10.3	.000	.000	.000
67	67	27.2	.000	.000	.000
68	68	45.9	.000	.000	.000
69	69	25.4	.000	.000	.000
70	70	28.1	.000	.000	.000
71	71	11.7	.000	.000	.000

*** RAW DATA RESULTS ***

TRAY #	SMPL.#	NH3	CHANNEL "B"	CHANNEL "C"	CHANNEL "D"
73	Ref Std.	56.7	.000	.000	.000

RESULTS FROM REPORT FILE NH3-91X.RPT

DATE 5- 8-95 TIME 16:13

METHOD NAME - NH3 ; SAMPLES/HR. - 30
SAMPLE/WASH RATIO - 1.000 SAMPLES/REFERENCE - 20

REF STANDARD CONC. - "A" 1.000 "B" .000 "C" .000 "D" .000
CHECK SAMPLE CONC. - "A" 1.900 "B" .000 "C" .000 "D" .000

*** STANDARDS DATA ***

TRAY POS.	STD #	NH3	CHANNEL "B"	CHANNEL "C"	CHANNEL "D"
3	STD-1	.050	-1.000	-1.000	-1.000
4	STD-2	.100	-1.000	-1.000	-1.000
5	STD-3	.200	-1.000	-1.000	-1.000
6	STD-4	.500	-1.000	-1.000	-1.000
7	STD-5	.700	-1.000	-1.000	-1.000
8	STD-6	1.000	-1.000	-1.000	-1.000
9	STD-7	1.500	-1.000	-1.000	-1.000
10	STD-8	2.000	-1.000	-1.000	-1.000

*** CHECK SAMPLE RESULTS ***
CHECK SAMPLE I.D. NUMBER ------ N-4

12	CHECK SMPL	1.018	.000	.000	.000

*** CALIBRATION CURVES APPLIED ***

NH3 Y = .30740E-04 X^2 .16996E-01 X + .54501E-04

CHANNEL "B" Y = .00000 X^2 .00000 X + .00000

CHANNEL "C" Y = .00000 X^2 .00000 X + .00000

CHANNEL "D" Y = .00000 X^2 .00000 X + .00000

*** ANALYTICAL RESULTS ***

TRAY	SMPL.#	NH3	CHANNEL "B" % Drift	CHANNEL "C" % Drift	CHANNEL "D" % Drift
13	13	.744	.000	.000	.000
14	14	.301	.000	.000	.000
15	15	.710	.000	.000	.000
16	16	1.88	.000	.000	.000
17	17	.524	.000	.000	.000
18	18 >	2.17	.000	.000	.000
19	19	.249	.000	.000	.000
20	20	.320	.000	.000	.000
21	21	.319	.000	.000	.000
22	22	.844E-02	.000	.000	.000

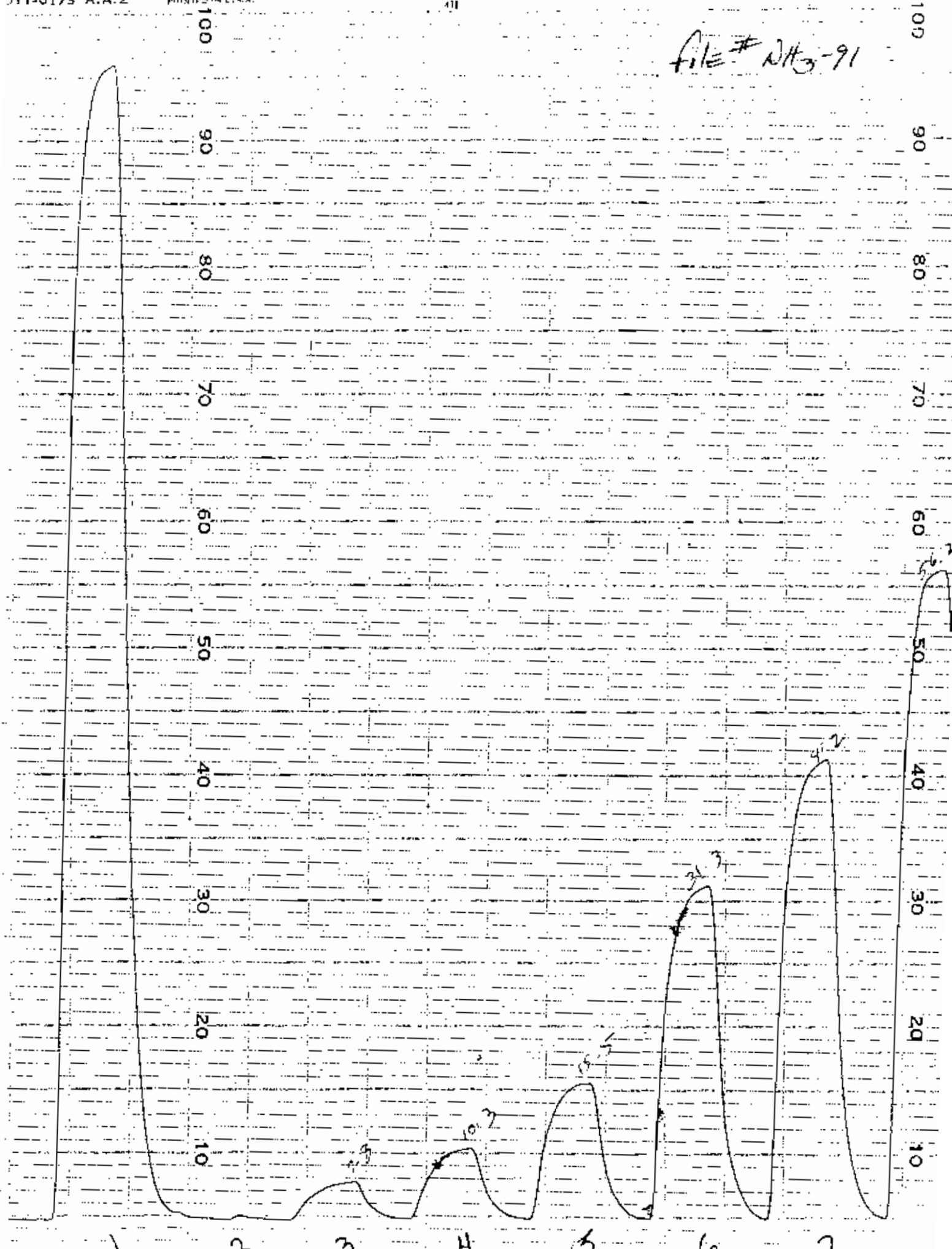
*** ANALYTICAL RESULTS ***

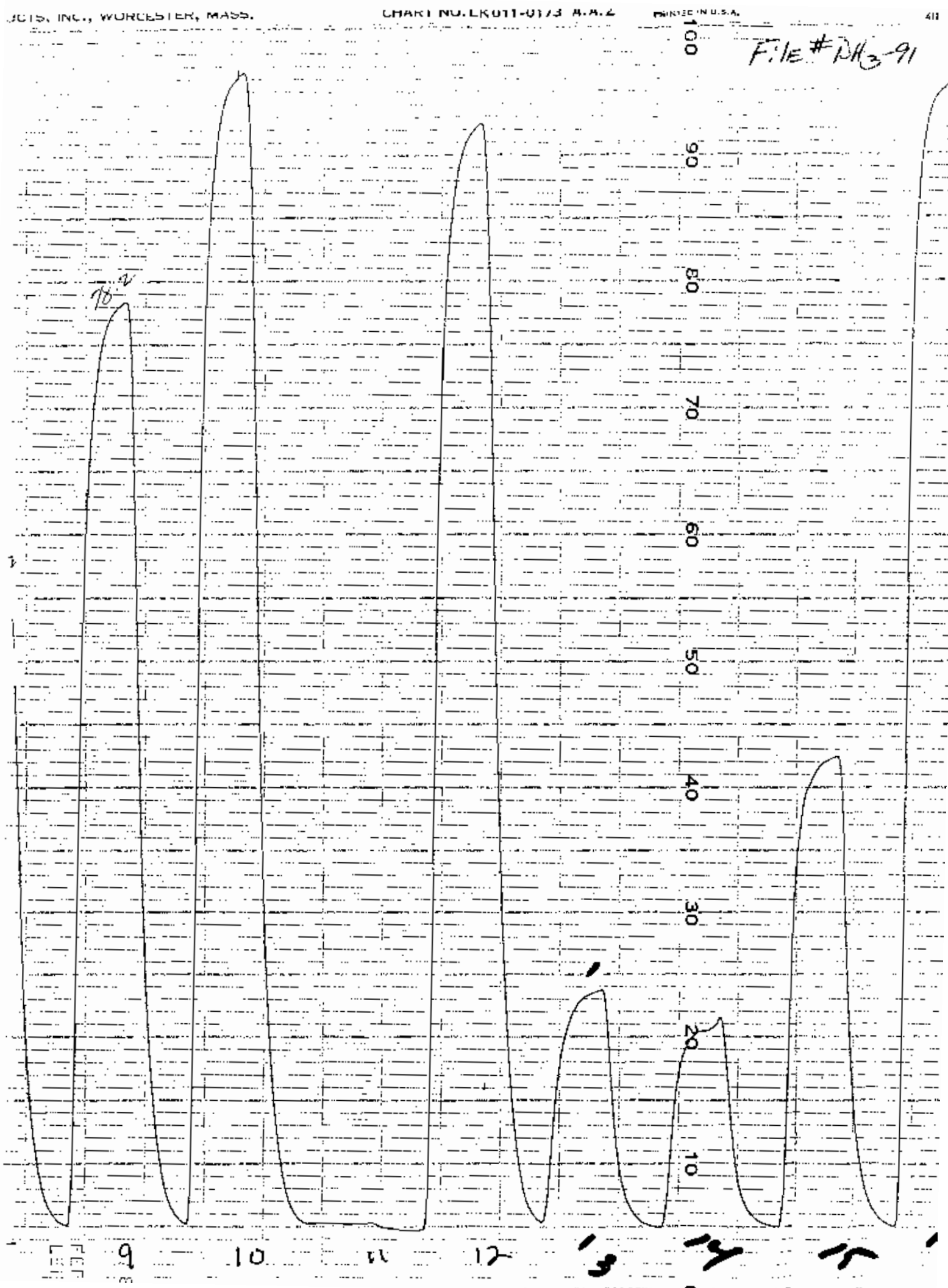
TRAY	SMPL.#		NH3	% Drift	CHANNEL "B"	% Drift	CHANNEL "C"	% Drift	CHANNEL "D"	% Drift
23	23		.133		.000		.000		.000	
24	24		.219		.000		.000		.000	
25	25		.106		.000		.000		.000	
26	26		.433		.000		.000		.000	
27	27		.142		.000		.000		.000	
28	2E		.275		.000		.000		.000	
29	29		.657		.000		.000		.000	
30	30		.102E-01		.000		.000		.000	
31	31		.198		.000		.000		.000	
32	32	>	2.13		.000		.000		.000	
34	Ref Std.		1.02	2.3	.000	.0	.000	.0	.000	.0
35	35	>	2.12		.000		.000		.000	
36	36		.482E-01		.000		.000		.000	
37	37		.369E-01		.000		.000		.000	
38	38		.620E-01		.000		.000		.000	
39	39		.720		.000		.000		.000	
40	40		.550		.000		.000		.000	
41	41		.356		.000		.000		.000	
42	42		.988		.000		.000		.000	
43	43		.795		.000		.000		.000	
44	44		.793		.000		.000		.000	
45	45		.327		.000		.000		.000	
46	46		.733		.000		.000		.000	
47	47		.302		.000		.000		.000	
48	48		.293		.000		.000		.000	
49	49		.342		.000		.000		.000	
50	50		.214		.000		.000		.000	
51	51		.306		.000		.000		.000	
52	52	>	2.09		.000		.000		.000	
53	53		.660E 01		.000		.000		.000	
54	54		.919E-01		.000		.000		.000	
56	Ref Std.		1.04	3.5	.000	.0	.000	.0	.000	.0
57	57		.135		.000		.000		.000	
58	58		.438E-01		.000		.000		.000	
59	59		.207		.000		.000		.000	
60	60		.140		.000		.000		.000	
61	61		.209		.000		.000		.000	
62	62		.290		.000		.000		.000	
63	63		.135		.000		.000		.000	
64	64		.917		.000		.000		.000	
65	65		.318E-01		.000		.000		.000	
66	66		.179		.000		.000		.000	
67	67		.462		.000		.000		.000	

*** ANALYTICAL RESULTS ***

TRAY	SMPL.#	NH3	% Drift	CHANNEL "B"	% Drift	CHANNEL "C"	% Drift	CHANNEL "D"	% Drift
70	70	.476		.000		.000		.000	
71	71	.194		.000		.000		.000	
73	Ref Std.	1.05	4.7	.000	.0	.000	.0	.000	.0

file # WH3-91

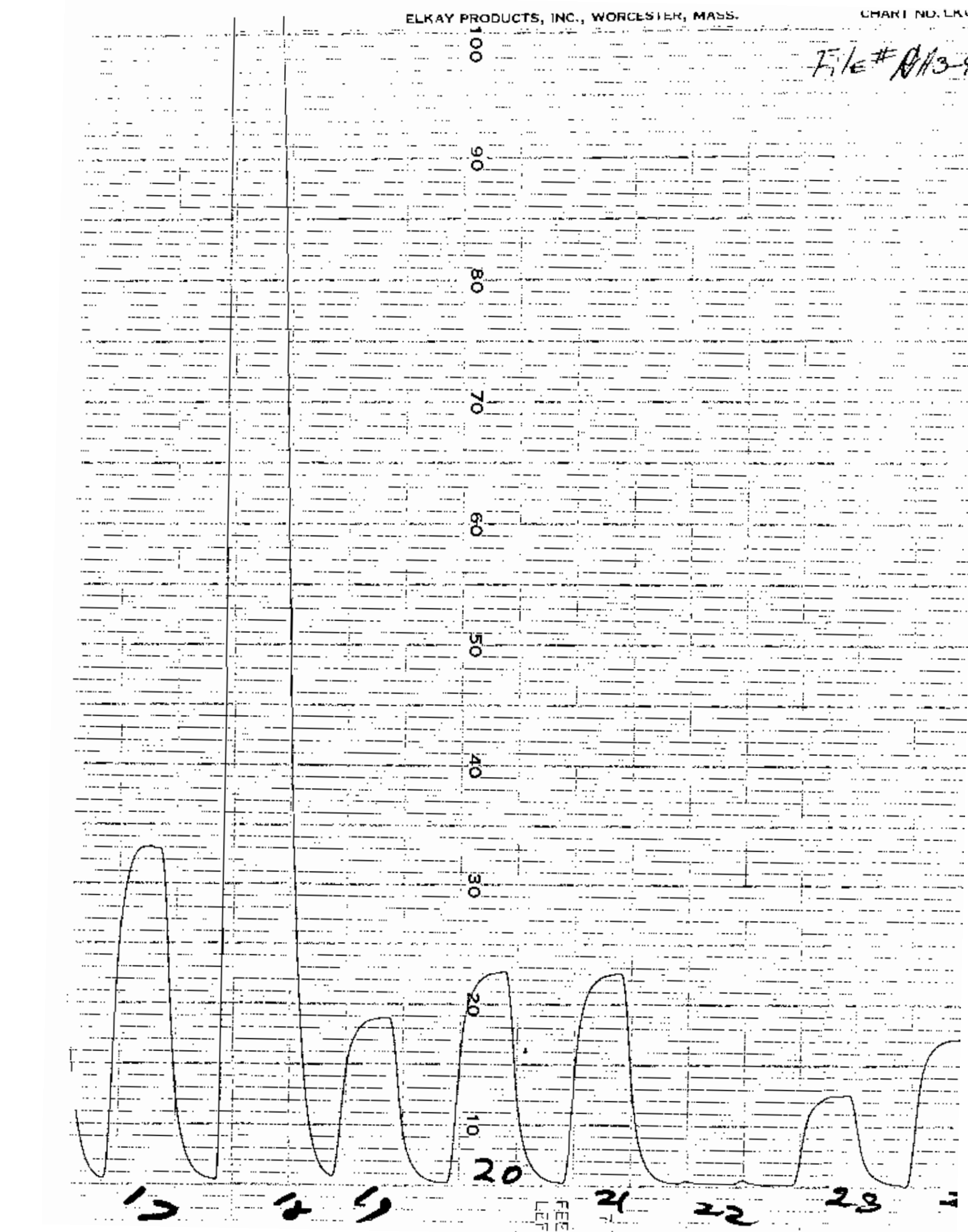



FILE # DH3-91
100
90
80
70
60
50
40
30
20
10
9
10
11
12
13
14
15

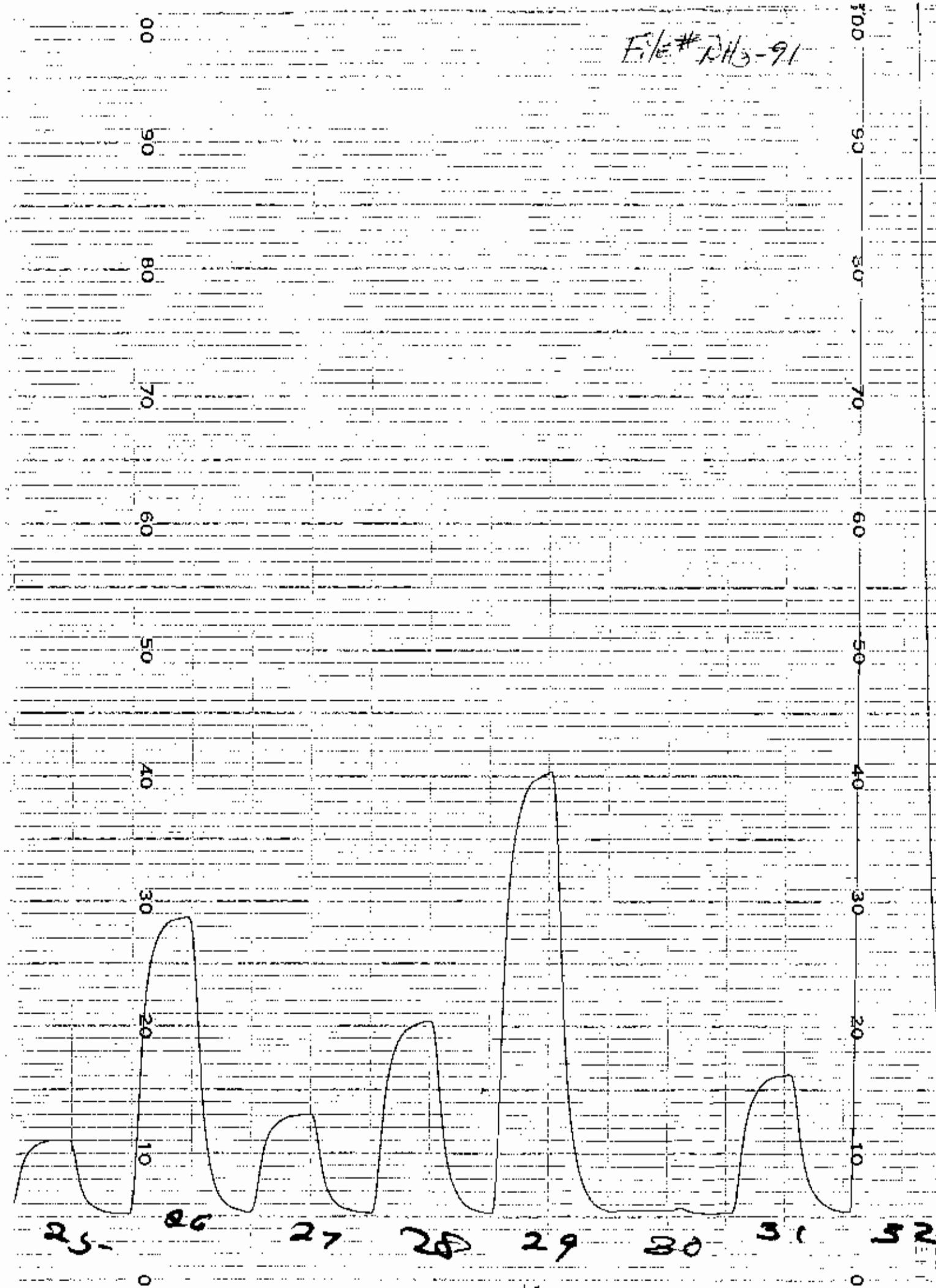
ELKAY PRODUCTS, INC., WORCESTER, MASS.

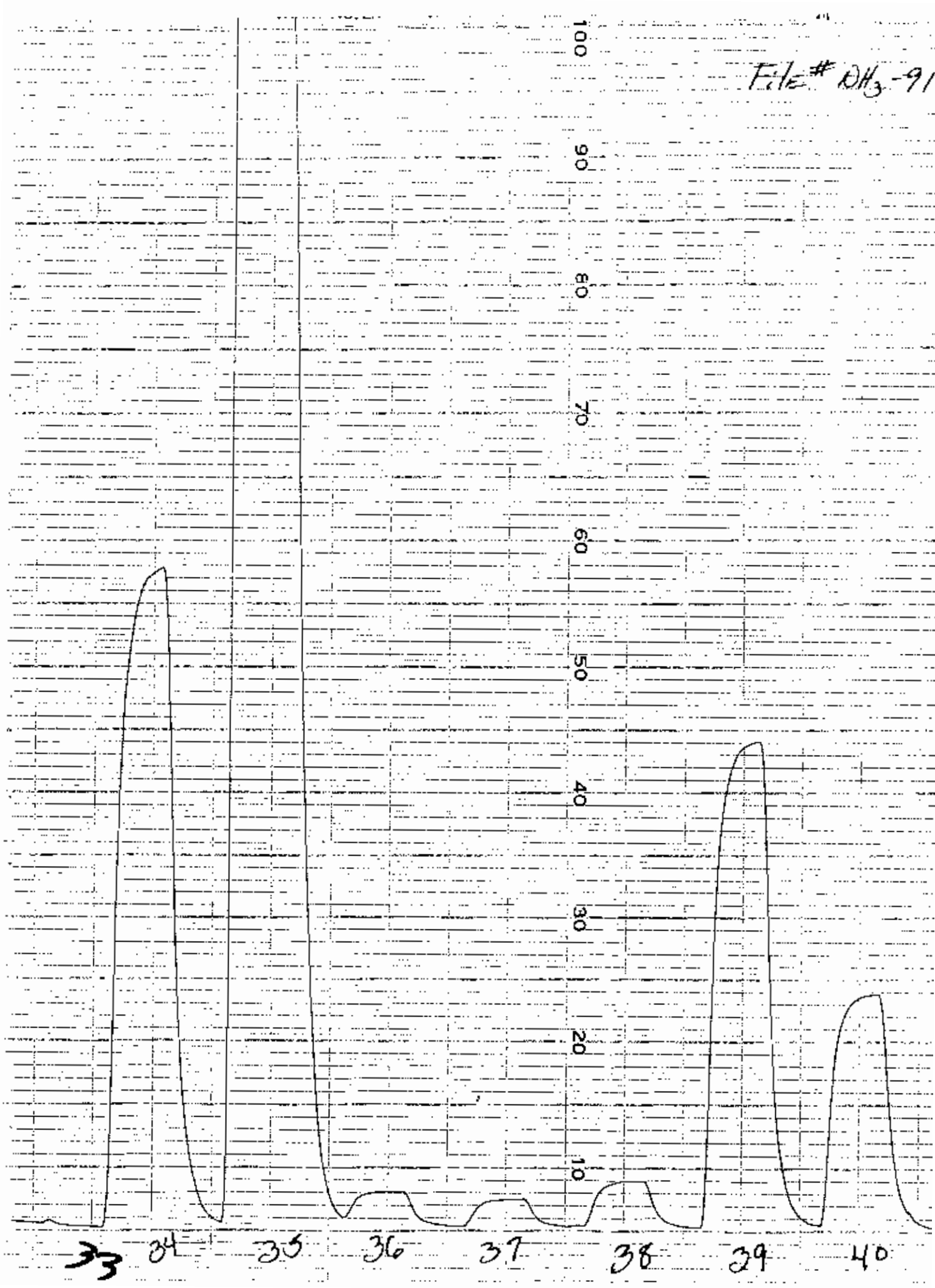
CHART NO. LK

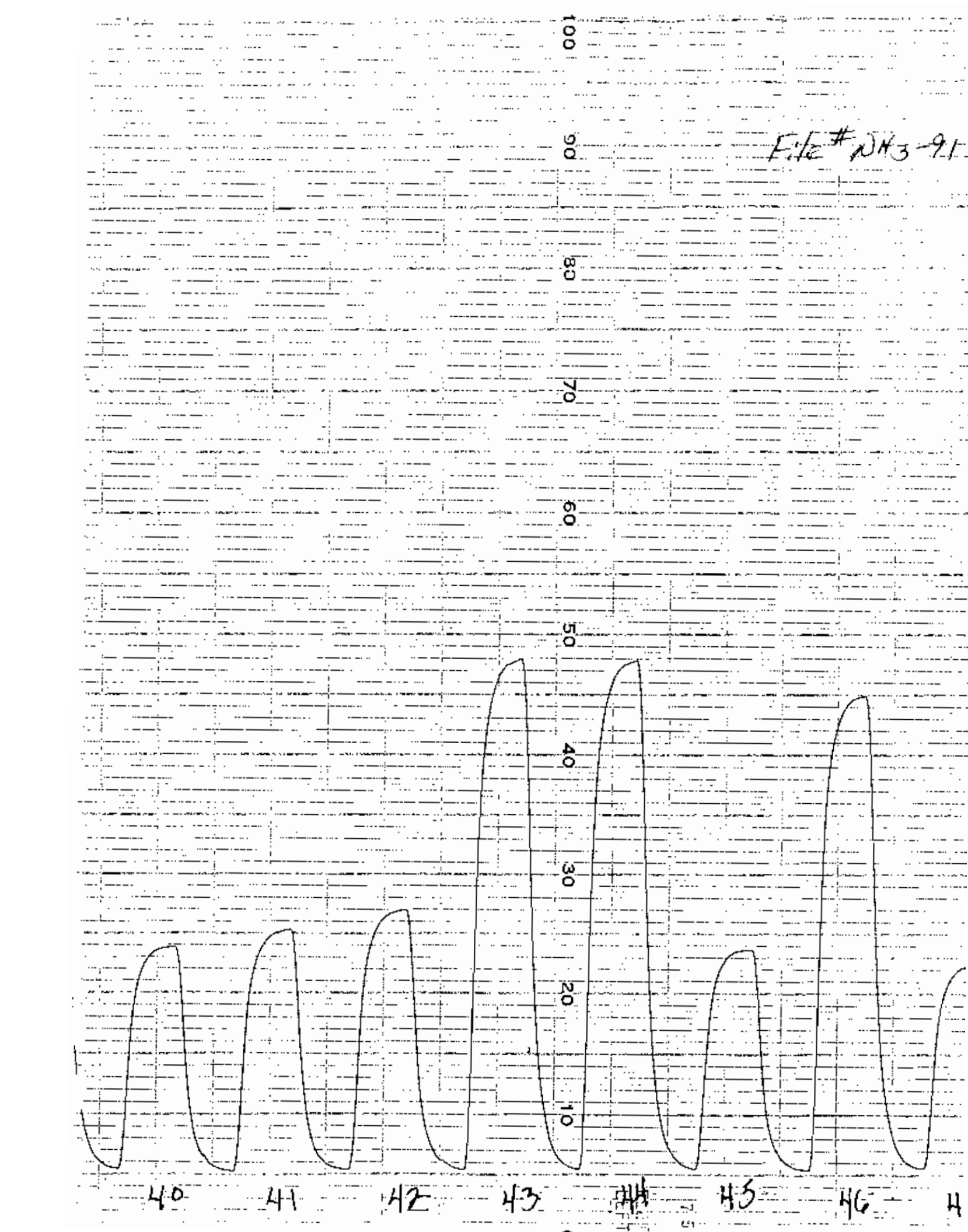
File # A#13-

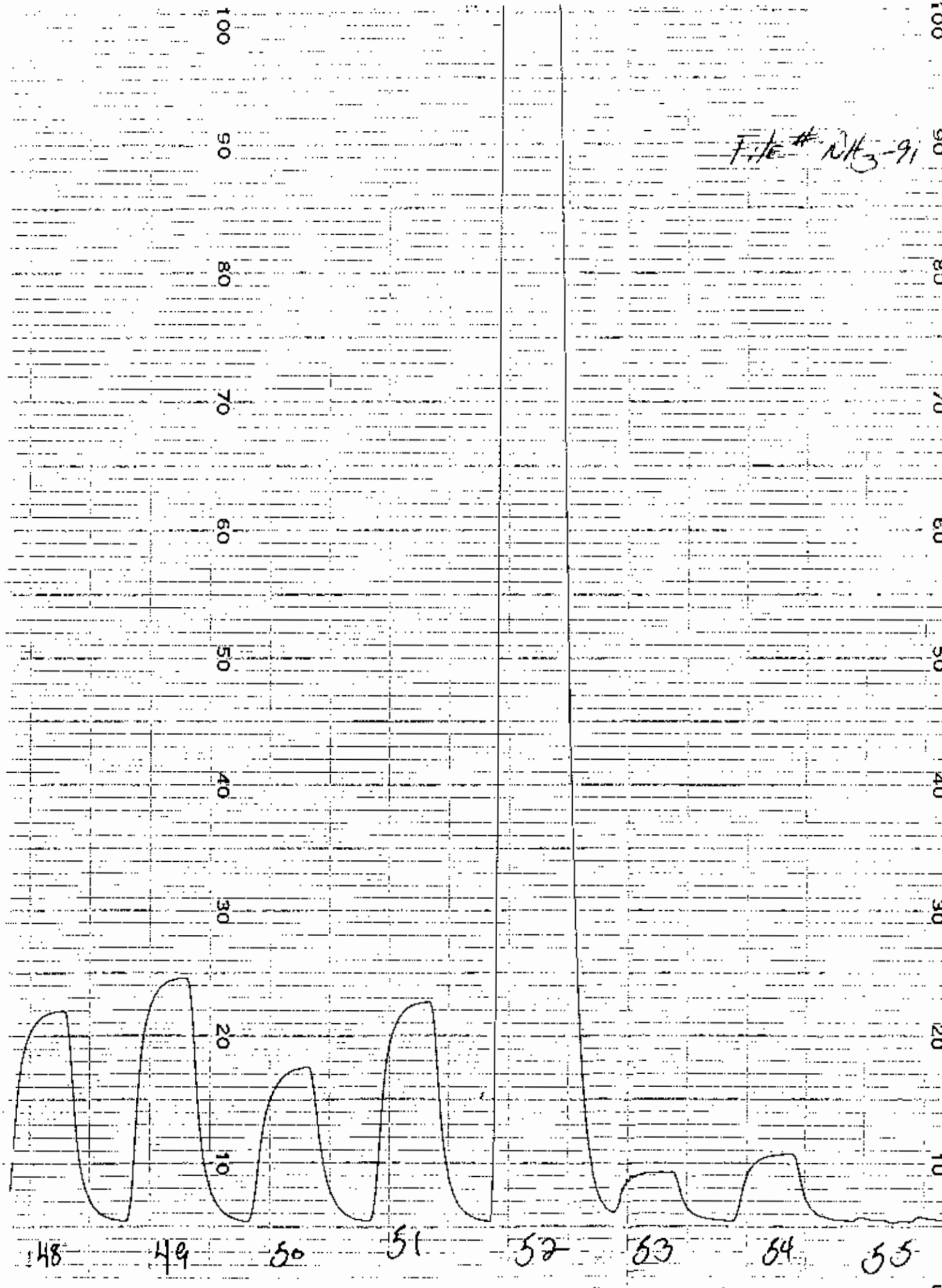


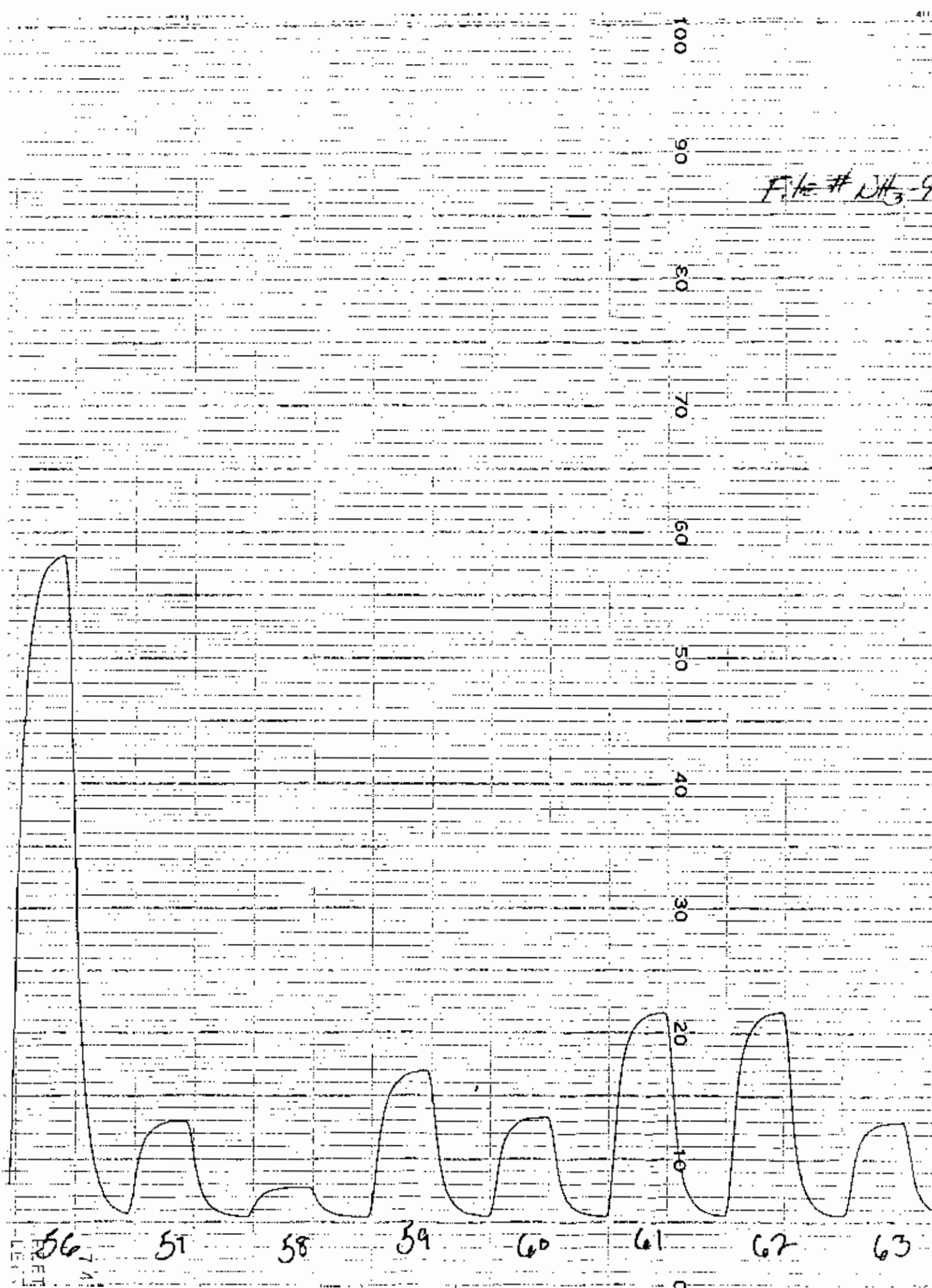
File # DH3-91

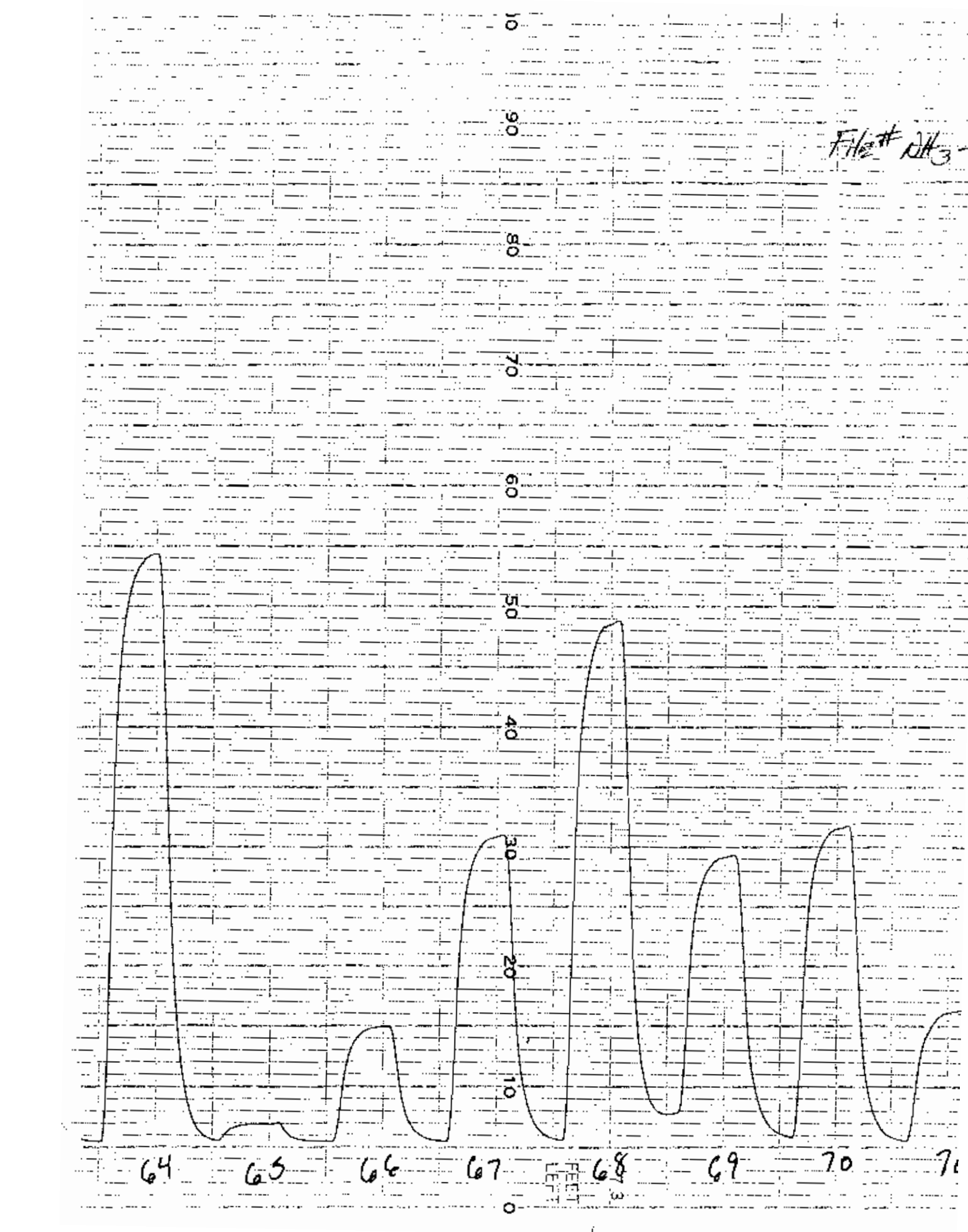



File # DH3-91
100
90
80
70
60
50
40
30
20
10
33
34
35
36
37
38
39
40


File # WH3-91
100
90
80
70
60
50
40
30
20
10
40
41
42
43
44
45
46


File # NH3-91
100
90
80
70
60
50
40
30
20
10
48
49
50
51
52
53
54
55


File # WH3-9
100
90
80
70
60
50
40
30
20
10
56
57
58
59
60
61
62
63


File # 1113
100
90
80
70
60
50
40
30
20
10
0
64
65
66
67
68
69
70
FEET
LEFT

F.I. # NH3 91
100
90
80
70
60
50
40
30
20
10
0
72
73

File # NH3-91

100
90
80
70
60
50
40
30
20
10
0

74 75 76

FEET

PRIMARY STANDARDS

ANALYSIS: Ammonia

STANDARD USED: 1 N HCl

ANALYST	DATE	WEIGHT	VOLUME DILUTED	PRESERVATIVE
KB	4/85	3.819 grams	1 Liter	—

SECTION II
SUBPART D-2

RAW DATA FOR:

TOTAL KJEDAHL NITROGEN

general testing corporation

9 1 0

AUTO ANALYZER ANALYSIS: TKN

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

65 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR (Sample only)	N mg/l	
1	5.0 ppm Std.				97.1	44.0				
2	BLANK				9.2	.0				
3	.20	"			16.5	12.5				
4	.50	"	delete		19.2	15.0				
5	.70	"	delete		24.1	20.0				
6	1.00	"			22.8	23.6				
7	2.00	"			45.5	41.5				
8	3.00	"			59.3	55.3				
9	4.00	"			78.1	74.0				
10	5.00	"			91.2	86.8				
11	BLANK				9.1	.0				
12	NUTRIENT #8	EPA CHECK	Sample		55.2	50.5	2.60	2	5.20	
13	"	#7	" "	"	14.9	10.9	.14		.14	
14		50604	A		39.0	34.7	1.62	100	160	
15		"	B		41.0	37	1.77	200	350	
16		50687			INTERFERENCE			10		
17	WRS-WATER	50705	A		23.2	19.4	.686	10	6.9	✓
18	"	"	B		23.2	19.1	.655	10	6.6	✓
19	"	"	C		21.0	17.3	.543		.54	✓
20	"	"	D		11.9	10.5	.121		<.20	✓
21	"	"	E		29.1	20.5	.742		.74	✓
22	"	"	F		33.5	30.0	1.33		1.3	✓
23	Method BLANK				13.2	10.0	.089		<.20	
24	BLANK Spike	(2) 1.0 ml			26.8	24.0	.959			
25	NUTRIENT #7	EPA CHECK	Sample		16.2	13.3	.295		.295	
26	WRS-WATER	50705	G		22.8	20.5	.742		.74	✓
27	"	"	G	duplicate	26.0	23.2	.896			
28	"	"	G	Spike (1)	42.3	40.0	1.95			
29	"	"	G	Spike (2)	30.5	-				
30		50753	A		11.8	7.8		20		
31		50759	A		11.9	7.8		20		
32		50209	A		14.7	13.1		5		
33	BLANK				7.4	0				
34	3.0 ppm Std.				51.5	51.0	2.65			
35		50789	C		over			10		
36	NUTRIENT #7	EPA CHECK	SAMPLE		14.9	14	337		.337	
37		50759	A	duplicate	14.5	13		20		
38		"	A	Spike	15.9			20		
39	BLANK				3.4	0				
40	3.0 ppm Std.				53.8	53.5	2.73		2.78	

(1) 100 ul 100 ppm Nicotinic Acid To 10 mls Sample.

(2) ul 100 ppm Adenosine Monophosphate To 10 mls Sample.

Date Analyzed: 5/13

QUALITY CONTROL

PRECISION:

	High Level	Low Level
Warning Limit:		
Critical Limit:		

	First Value	Second Value	A-B	A+B	$\frac{A-B}{A+B}$	$\frac{A-B}{A} \times 100$
"705"	.742	.896	.154	.819		18.5%

SPIKED RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

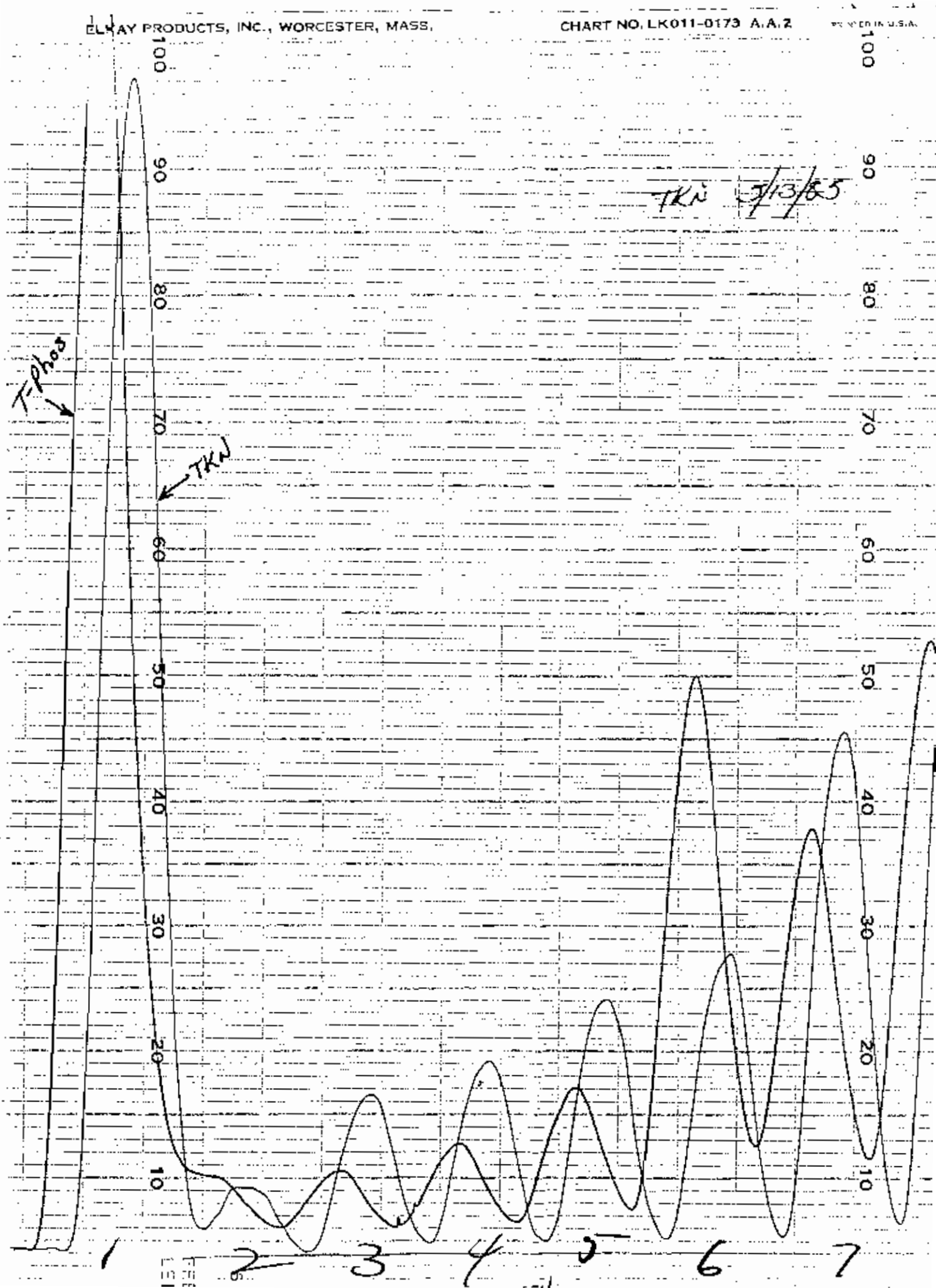
	Sample Value	Spiked Value	Amount Added	Amount Recovery	% Recovery
ANL	2.20	.959	1.00	.959	95.9%
"705"	.819	1.95	1.00	1.13	113%

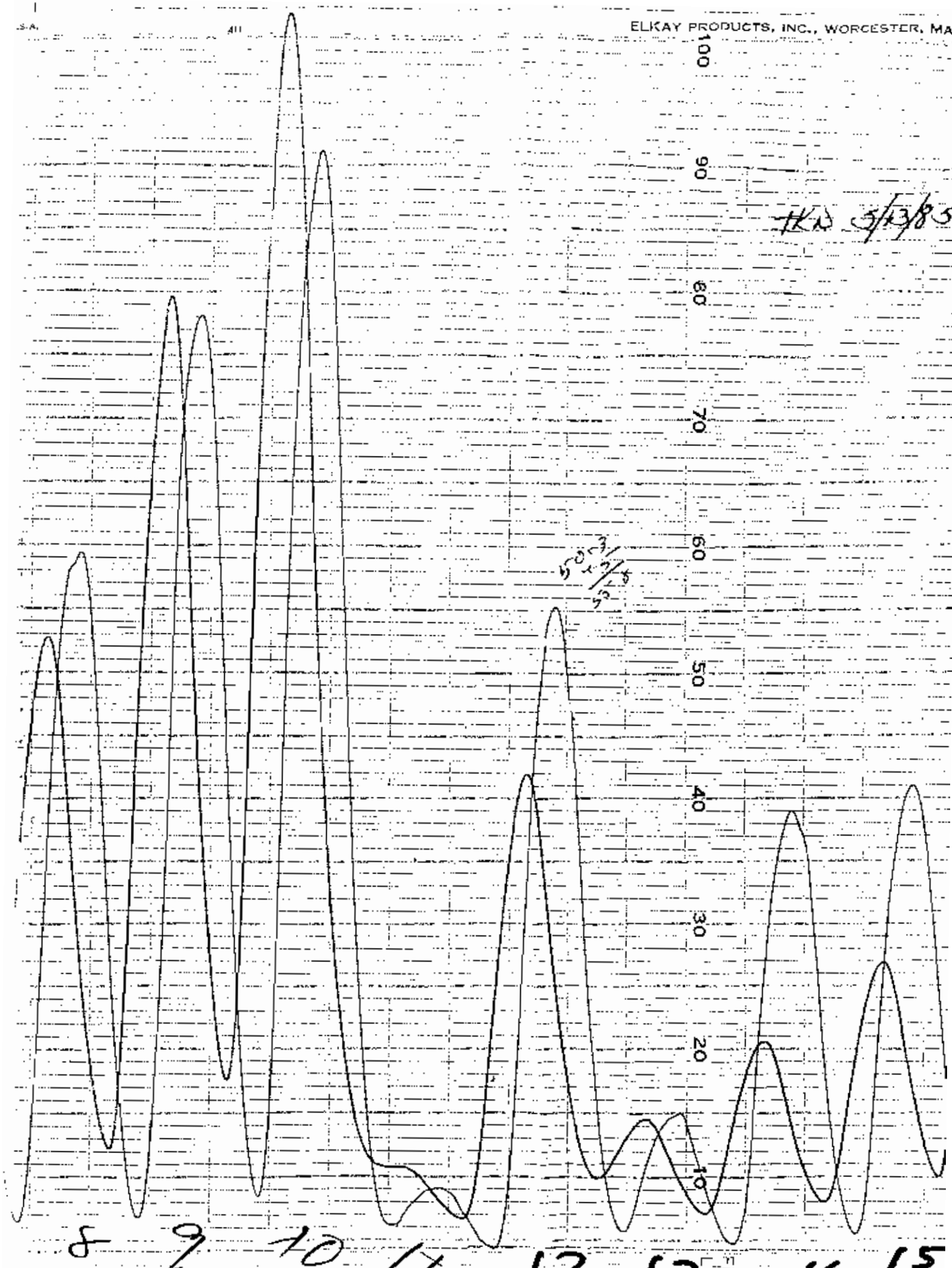
EPA STANDARD RECOVERY:

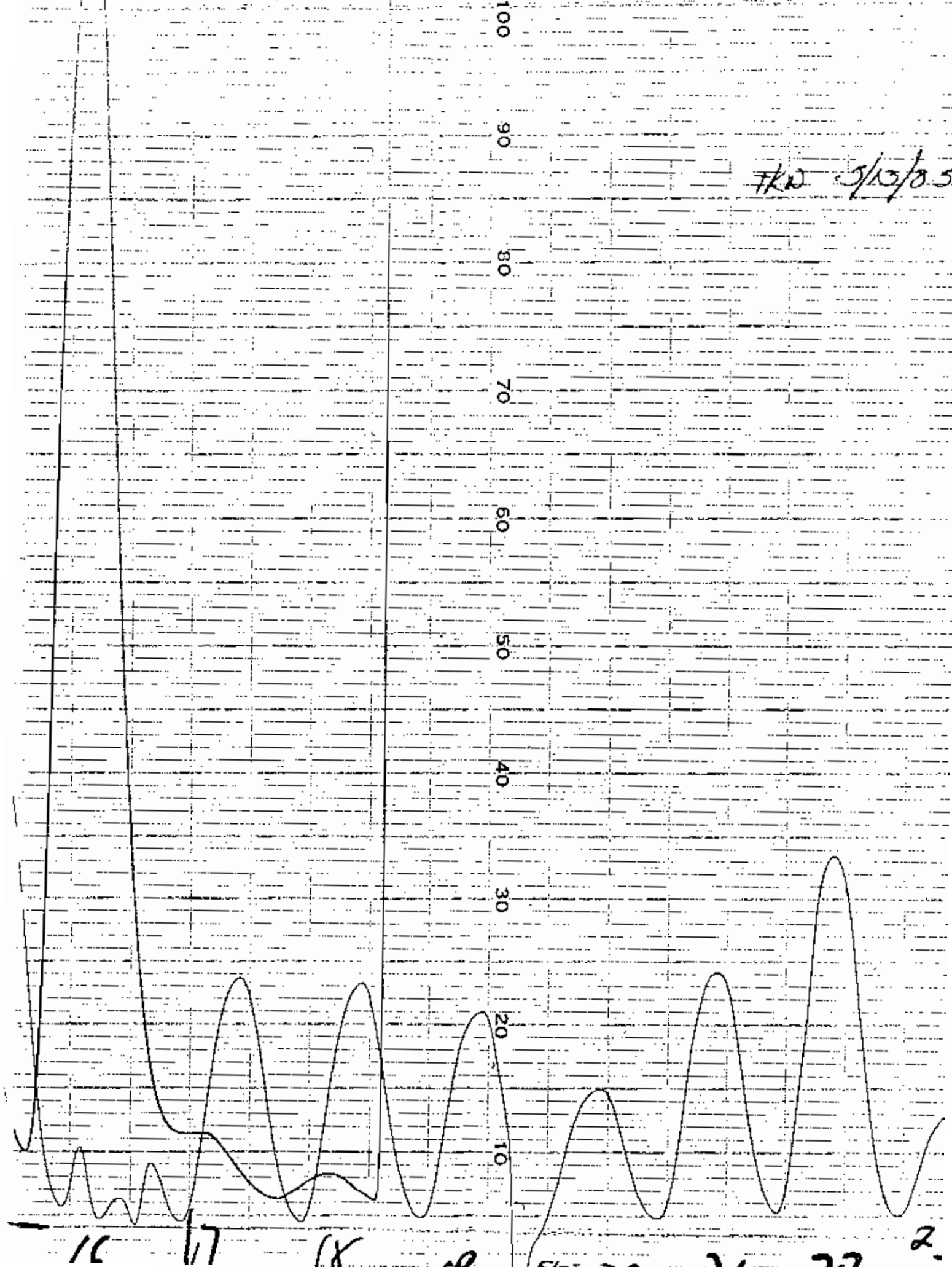
	UCL	UWL	LCL	LWL
High Level				
Low Level				

	True Value	Analytical Value	% Recovery
W-8	5.28	5.20	98.5%
W-7	.32	.14	45%
"	"	.295	92.1%
"	"	.337	105%

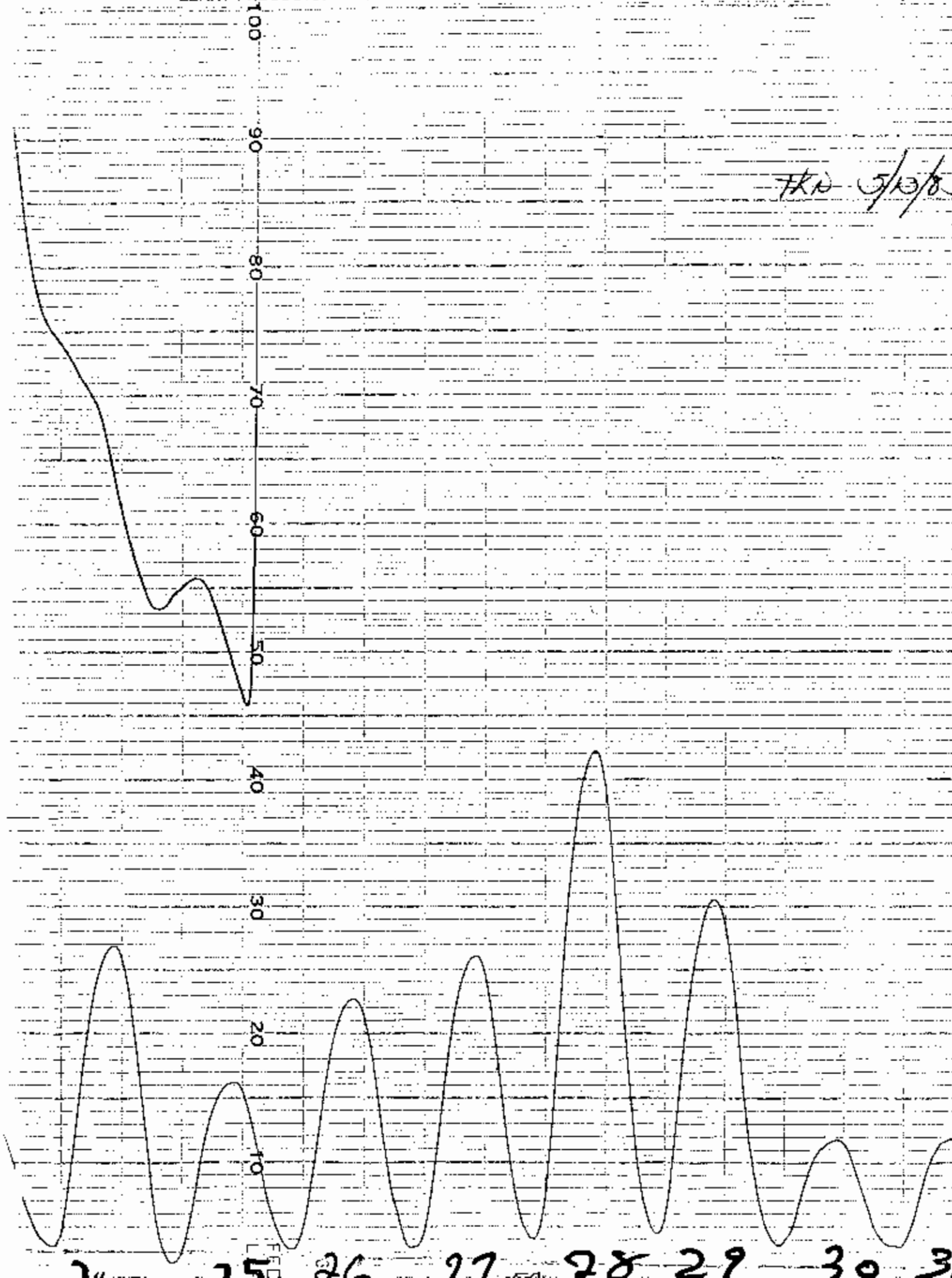
ELKAY PRODUCTS, INC., WORCESTER, MASS. CHART NO. LK011-0173 A.A.Z

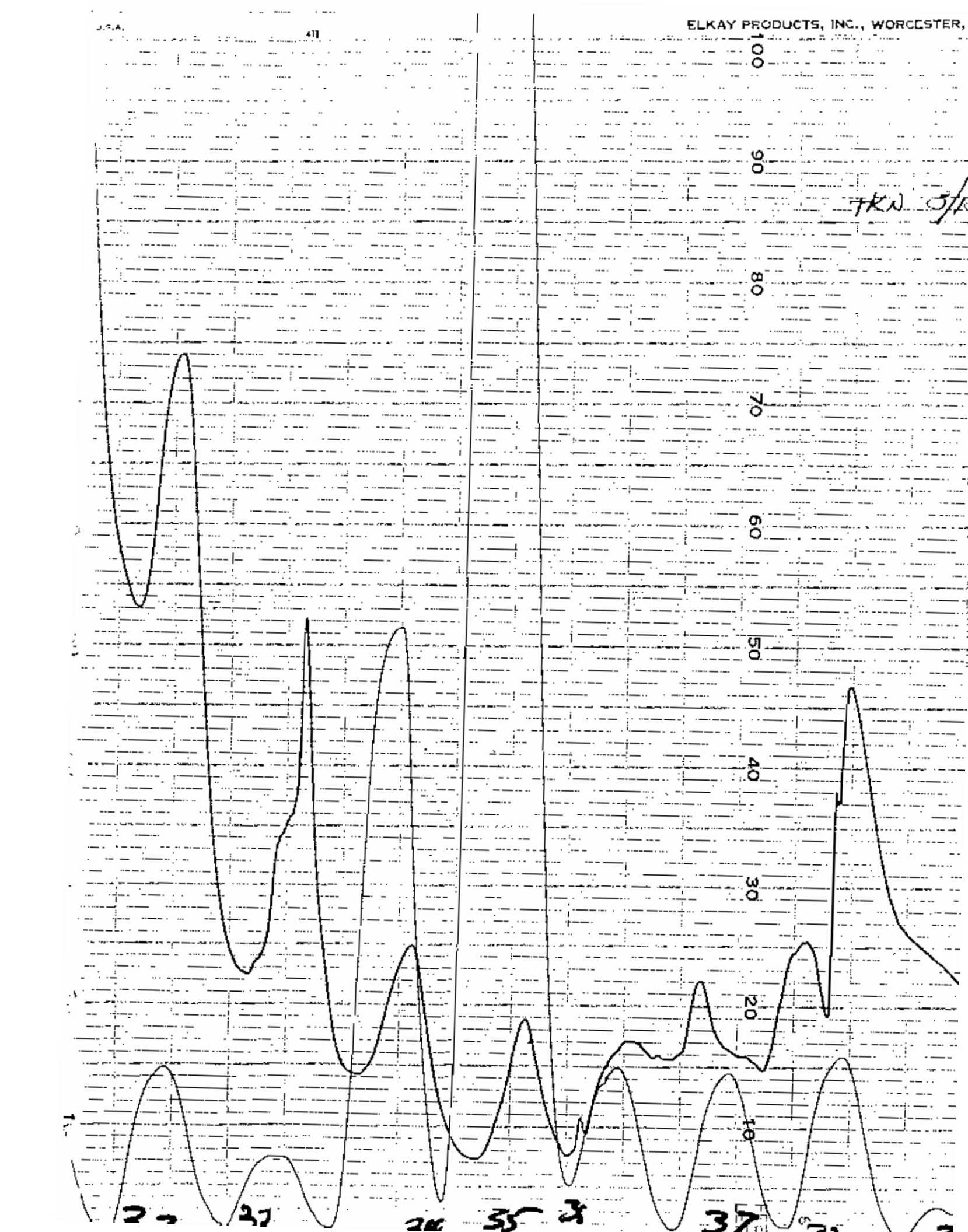


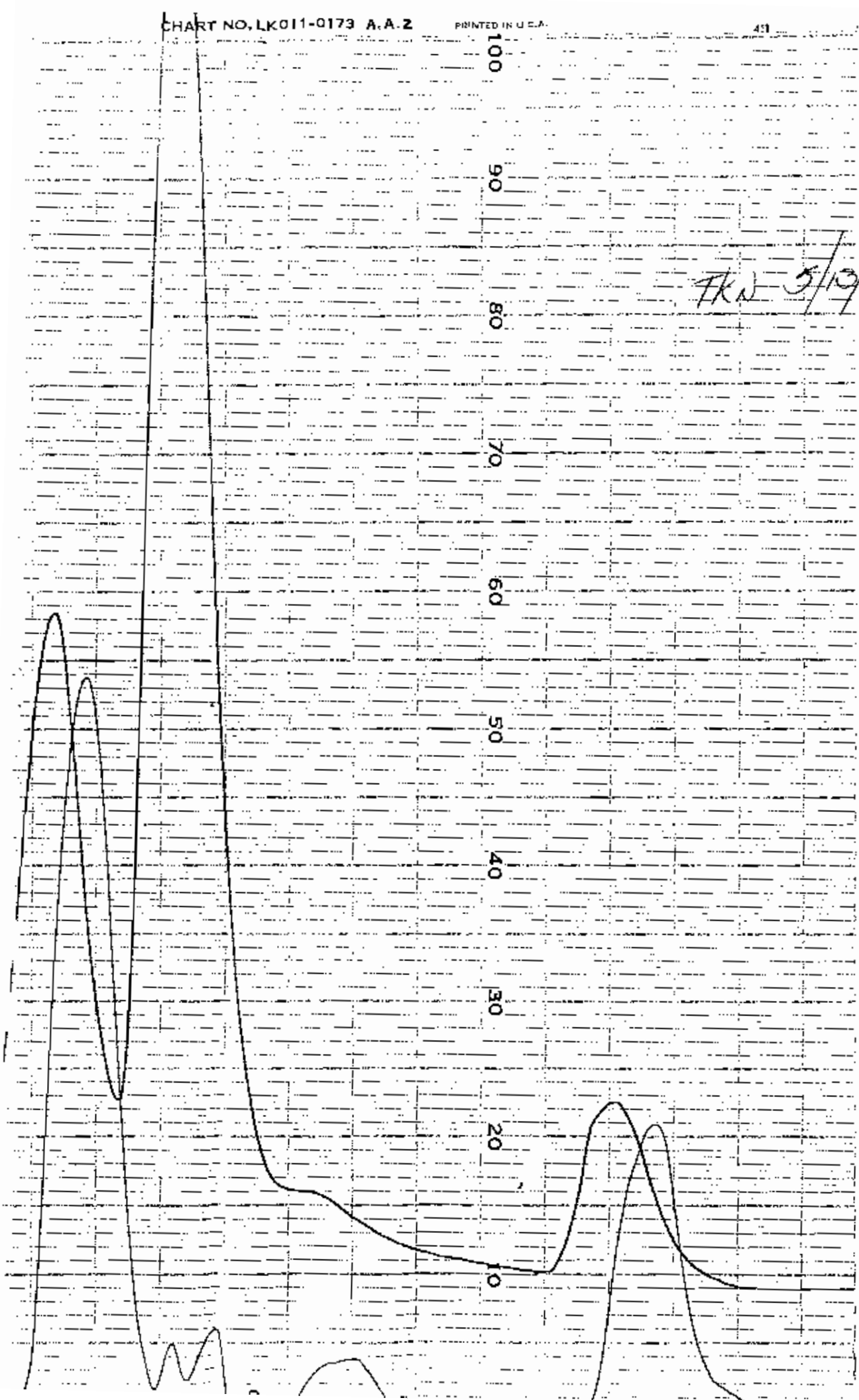

100
90
80
70
60
50
40
30
20
10
8 9 10 11 12 13 14 15


100
90
80
70
60
50
40
30
20
10
TKD 5/13/85

ELKAY PRODUCTS, INC., WORCESTER, MASS. CHART NO. LK011-0173 A.A.2







FKJ 5/13/65

SECTION II
SUBPART D-3

RAW DATA FOR:

NITRATE-NITRITE

general testing corporation

gtc

AUTO ANALYZER ANALYSIS: Nitrate, N[illegible]

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR	N mg/1
1 *	2.00 ppm	high standard		[illegible]					
2	Blank - DI				5.0				
3	.05 ppm	10 ppm standard		[illegible] +9.5 DI	6.5	← Deleted			
4	.10 ppm	Standard		[illegible] + 9ml DI	3.3				
5	.20 ppm	Standard		.2ml of 10 ppm + 9.8 DI	13.1				
6	.50 ppm	Standard		.5ml of 10 ppm + 9.5 DI	25.1				
7	.70 ppm	Standard		.7ml of 10 ppm + 9.3 DI	34.3				
8	1.00 ppm	Standard		1.0ml of 10 ppm + 9.0 DI	54.3				
9	1.50 ppm	Standard		1.5ml of 10 ppm + 8.5 DI	80.5				
10	2.00 ppm	Standard			97.0	← Deleted			
11	Blank - DI				2.5				
12	EPA check	sample nutrient #4			79.3			1.524	
13	Method Blank	- DI			2.2			< .05 ppm	
14	EPA - check	sample nutrient #3			10.4			.192	
15		50682		diluted 1:10	64.5			(10)	12 ✓
16		50726		diluted 1:10	64.5			(10)	12. ✓
17		50698			16.5				.31 ✓
18		50699			60.8				1.2 ✓
19		50700			off				—
20		50701			off				—
21	1.00 ppm standard-check				45.1			.875	
22		50684	A	diluted 1:500	18.7			500 .179	180 ✓
23		50684	Duplicate	A " "	16.1			" .155	
24		50684	B	" "	19.5			" "	190 ✓
25		4303	A	diluted 1:20	6.8			20 .184	3.7 ✓
26			Duplicate A	" "	9.7			20 .132	
27			Duplicate A	" "	9.7			" .355	
28			B	" "	13.4			"	
29			C	" "	3.8			"	3.0 ✓
30			D	" "	7.1			"	5.0 ✓
31			E	" "	19.3			"	3.6 ✓
32		50687			9.3				< .10
33	Blank - DI				2.0				
34	1.00 ppm standard - check				49.1				
35 **	Blank spike	- .2ml of stock + 9.8 DI			10.1			.220	
36		50681			76.7				1.4 ✓
37	Dalton	50705	A		49.7			1.01	1.0 ✓
38		50705	Duplicate A		54.5			1.03	
39 **		50705	spike A	- 9.8 ml sample	55.3			1.19	
40	↓	50705	B	w/.2ml spike	31.2				.50 ✓

rounded [illegible]

* stock = KNO_3 1000 ppm $\xrightarrow{1:10}$ 100 ppm $\xrightarrow{1:10}$ 10 ppm (diluted with D.I. water)

** spikes .2ml of 100 ppm KNO_3 diluted stock.

[illegible] new pipet tips

Analyst: Colleen [illegible]

Date: May 7, 1985

general testing corporation

gtc

cont.

AUTO ANALYZER ANALYSIS: Nitrate, NO3

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR	N mg/l
1	DALTON	50705	C		19.2				.90 ✓
2	DALTON	↓	D		2.8				< .10
3	DALTON		E		8.6				.19 ✓
4	DALTON		F		49.7				1.0 ✓
5	DALTON		G		52.6				1.1 ✓
6		50680	A		81.9			1.66	1.7 ✓
7			Duplicate A		82.9			1.68	
8			B		1.9			.056	**2 .10 ✓
9			C		2.3				< .10 ✓
10			D		2.5			.068 ✓	< .10 ✓
11			Duplicate D		1.6			.050	
12		↓	Spiked D - 2 standards		8.1			.196	
13		50739	A		42.2			.862	.86
14			Duplicate A		40.9			.836	
15	Blank - DI				1.1				
16	1.0 ppm standard check				49.1				
17		50739	Spike A	2 checks in	49.0			.998	1.0 ✓
18			B		37.2			.762	.76 ✓
19			C		45.2			.922	.92 ✓
20			D		41.6			.850	.85 ✓
21			E		44.6			.910	.91 ✓
22			F		33.9			.696	.70 ✓
23		↓	G		42.4			.866	.87 ✓
24		50744	A		10.6			.230	.23 ✓
25			B		2.9			.976	< .10 ✓
26			C		2.5				< .10 ✓
27			Duplicate C		2.6			< .10	
28			Spike C		11.4			.296	
29			D		2.9				< .10 ✓
30			F		1.6				< .10 ✓
31			G		3.3				< .10 ✓
32			H		1.9				< .10 ✓
33		↓	I		2.2				< .10 ✓
34	Blank - DI	2 checks	100 ppm	+ 9.8 DI	7.7			.192	
35		50744	J		2.3				< .10 ✓
36			K		1.5				< .10 ✓
37	Blank - DI	H2O check - Beaker			1.3				
38	1.0 ppm	standard - check			9.5				
39		50744	L	1.5 dilution	2.85			10	2.5 ✓
40		" "	M		low				< .10 ✓

*** < .10 ppm = lower than lowest detection limit of standards

Colleen Z. Kuper

May 7, 1985

general testing corporation

gtc

AUTO ANALYZER ANALYSIS: [illegible]

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR	N mg/l
1		50744	N		1.7				4.10 pp[illegible]
2	E.P.A check sample [illegible]			#4	55.7				
3		50700		0.1 [illegible] 1:10	19.83			(10)	41.1 ✓
4		50701		0.1 [illegible] 1:5	27.4			(5)	2.8 ✓
5		4365	B	0.1 [illegible] 1:10	4.3			(10)	.96 ✓
6		50757			44.3				.90
7	Blank DI				1.5				
8	100ppm Standard check sample				49.5				
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

Analyst: Colleen Keefer[illegible]
May 7, 1985

QUALITY CONTROL $NO_3 - NO_2$ 5/7/85

PRECISION:

	High Level	Low Level
Warning Limit:		
Critical Limit:		

	First Value	Second Value	A-D	A+B	$(\frac{A-D}{A+B})$	$\frac{A-D}{A}$ X 100
0684D	179	155	24	167		14.4%
305A	3.24	3.68	.04	3.66		1.1%
705A	1.01	1.03	.02	1.02		2.0%
0680A	1.68	1.66	.02	1.67		1.2%
D	<.10	<.10				
0744C	<.10	<.10				
0739-A	.862	.836	.026	.849		3.[illegible]%

SPIKED RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

	Sample Value	Spiked Value	Amount Added	Amount Recovery	% Recovery
305A	.183	.355	.20	.172	56%
BLANK	0	.192	.20	.192	96%
705A	1.02	1.19	.20	.17	85%
0680D	<.10	.196	.20	.196	98%
0739-A	.849	.999	.20	.15	75%

.999 .849 ...%

EPA STANDARD RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

True Value	Analytical Value	% Recovery
1.43	1.527	106.8%
.14	.19	137.8% ← CARRY OVER

180

19[illegible]

RESULTS FROM RAW DATA FILE N03-132.RAW

DATE 5- 8-85 TIME 9:15

METHOD NAME - NITRATE SAMPLES/HR. - 30
SAMPLE/WASH RATIO - 1.000 SAMPLES/REFERENCE - 20

REF STANDARD CONC. - "A"	.000	"B"	.000	"C"	1.000	"D"	.000
CHECK SAMPLE CONC. - "A"	.000	"B"	.000	"C"	1.430	"D"	.000

*** STANDARDS DATA ***

TRAY POS.	STD #	CHANNEL "A"	CHANNEL "B"	NITRATE	CHANNEL "D
3	STD-1	.000	.000	1.500	.000
4	STD-2	.000	.000	3.100	.000
5	STD-3	.000	.000	8.100	.000
6	STD-4	.000	.000	24.100	.000
7	STD-5	.000	.000	34.300	.000
8	STD-6	.000	.000	49.300	.000
9	STD-7	.000	.000	75.500	.000
10	STD-8	.000	.000	92.000	.000

*** CHECK SAMPLE RAW RESULTS ***
CHECK SAMPLE I.D. NUMBER ----- N-4

11	BLANK SMPL	.00000	.00000	2.5000	.00000
12	CHECK SMPL	.00000	.00000	79.300	.00000

*** RAW DATA RESULTS ***

TRAY #	SMPL.#	CHANNEL "A"	CHANNEL "B"	NITRATE	CHANNEL "D
13	13	.000	.000	2.20	.000
14	14	.000	.000	10.4	.000
15	15	.000	.000	24.5	.000
16	16	.000	.000	62.5	.000
17	17	.000	.000	14.5	.000
18	18	.000	.000	60.9	.000
19	19	.000	.000	.000	.000
20	20	.000	.000	.000	.000
21	21	.000	.000	45.1	.000
22	22	.000	.000	18.7	.000
23	23	.000	.000	16.1	.000
24	24	.000	.000	19.9	.000
25	25	.000	.000	9.80	.000
26	26	.000	.000	9.70	.000
27	27	.000	.000	18.4	.000

*** RAW DATA RESULTS ***

TRAY #	SMPL.#	CHANNEL "A"	CHANNEL "B"	NITRATE	CHANNEL "C
28	28	.000	.000	3.80	.000
29	29	.000	.000	8.19	.000
30	30	.000	.000	14.3	.000
31	31	.000	.000	9.70	.000
32	32	.000	.000	7.00	.000
33	Blank	.000	.000	1.10	.000
34	Ref Std.	.000	.000	49.1	.000
35	35	.000	.000	10.1	.000
36	36	.000	.000	70.7	.000
37	37	.000	.000	49.7	.000
38	38	.000	.000	50.5	.000
39	39	.000	.000	58.8	.000
40	40	.000	.000	24.2	.000
41	41	.000	.000	19.2	.000
42	42	.000	.000	2.80	.000
43	43	.000	.000	8.60	.000
44	44	.000	.000	49.7	.000
45	45	.000	.000	52.6	.000
46	46	.000	.000	81.9	.000
47	47	.000	.000	82.9	.000
48	48	.000	.000	1.90	.000
49	49	.000	.000	2.30	.000
50	50	.000	.000	2.50	.000
51	51	.000	.000	1.60	.000
52	52	.000	.000	6.90	.000
53	53	.000	.000	42.2	.000
54	54	.000	.000	40.9	.000
55	Blank	.000	.000	1.10	.000
56	Ref Std.	.000	.000	49.1	.000
57	57	.000	.000	49.8	.000
58	58	.000	.000	37.2	.000
59	59	.000	.000	45.2	.000
60	60	.000	.000	41.6	.000
61	61	.000	.000	44.6	.000
62	62	.000	.000	33.9	.000
63	63	.000	.000	42.4	.000
64	64	.000	.000	10.6	.000
65	65	.000	.000	2.90	.000
66	66	.000	.000	2.50	.000
67	67	.000	.000	2.60	.000
68	68	.000	.000	11.8	.000
69	69	.000	.000	2.90	.000
70	70	.000	.000	1.60	.000

*** RAW DATA RESULTS ***

TRAY #	SMPL.#	CHANNEL "A"	CHANNEL "B"	NITRATE	CHANNEL "D"
73	73	.000	.000	2.20	.000
74	74	.000	.000	8.70	.000
75	75	.000	.000	2.30	.000
76	76	.000	.000	1.20	.000
77	Blank	.000	.000	1.50	.000
78	Ref Std.	.000	.000	49.5	.000
79	79	.000	.000	.000	.000
80	80	.000	.000	.000	.000
81	81	.000	.000	1.70	.000
82	82	.000	.000	58.7	.000
83	83	.000	.000	19.9	.000
84	84	.000	.000	27.4	.000
85	85	.000	.000	4.30	.000
86	86	.000	.000	44.3	.000
87	Blank	.000	.000	1.50	.000
88	Ref Std.	.000	.000	49.5	.000

RESULTS FROM REPORT FILE N03-132.RPT

DATE 5- 8-95 TIME 9:15

METHOD NAME - NITRATE SAMPLES/HR. - 30
SAMPLE/WASH RATIO - 1.000 SAMPLES/REFERENCE - 20

REF STANDARD CONC. - "A" .000 "B" .000 "C" 1.000 "D" .000
CHECK SAMPLE CONC. - "A" .000 "B" .000 "C" 1.430 "D" .000

*** STANDARDS DATA ***

TRAY POS.	STD #	CHANNEL "A"	CHANNEL "B"	NITRATE	CHANNEL "D"
3	STD-1	-1.000	-1.000	.050	-1.000
4	STD-2	-1.000	-1.000	.100	-1.000
5	STD-3	-1.000	-1.000	.200	-1.000
6	STD-4	-1.000	-1.000	.500	1.000
7	STD-5	-1.000	-1.000	.700	1.000
8	STD-6	-1.000	-1.000	1.000	-1.000
9	STD-7	-1.000	-1.000	1.500	-1.000
10	STD-8	-1.000	-1.000	2.000	-1.000

*** CHECK SAMPLE RESULTS ***
CHECK SAMPLE I.D. NUMBER --- --- N-9

12	CHECK SMPL	.000	.000	1.527	.000

*** CALIBRATION CURVES APPLIED ***

CHANNEL "A" Y = .23016E-04 X^2 .57453E-01 X + .46802E 01

CHANNEL "B" Y = .00000 X^2 .00000 X + .00000

NITRATE Y = .11752E-05 X^2 .19267E-01 X + .40460E-01

CHANNEL "D" Y = .00000 X^2 .00000 X + .00000

*** ANALYTICAL RESULTS ***

TRAY	SMPL.#	CHANNEL "A"	% Drift	CHANNEL "B"	% Drift	NITRATE	% Drift	CHANNEL "D"	% Dri
13	13	.468E-01	.000			.547E-01	.000		
14	14	.468E-01	.000			.193	.000		
15	15	.468E-01	.000			1.25	.000		
16	16	.468E-01	.000			1.21	.000		
17	17	.468E-01	.000			.313	.000		
18	18	.468E-01	.000			1.18	.000		
19	19	.468E-01	.000			-.824E-02	.000		
20	20	.468E-01	.000			-.232E-02	.000		
21	21	.468E-01	.000			.875	.000		

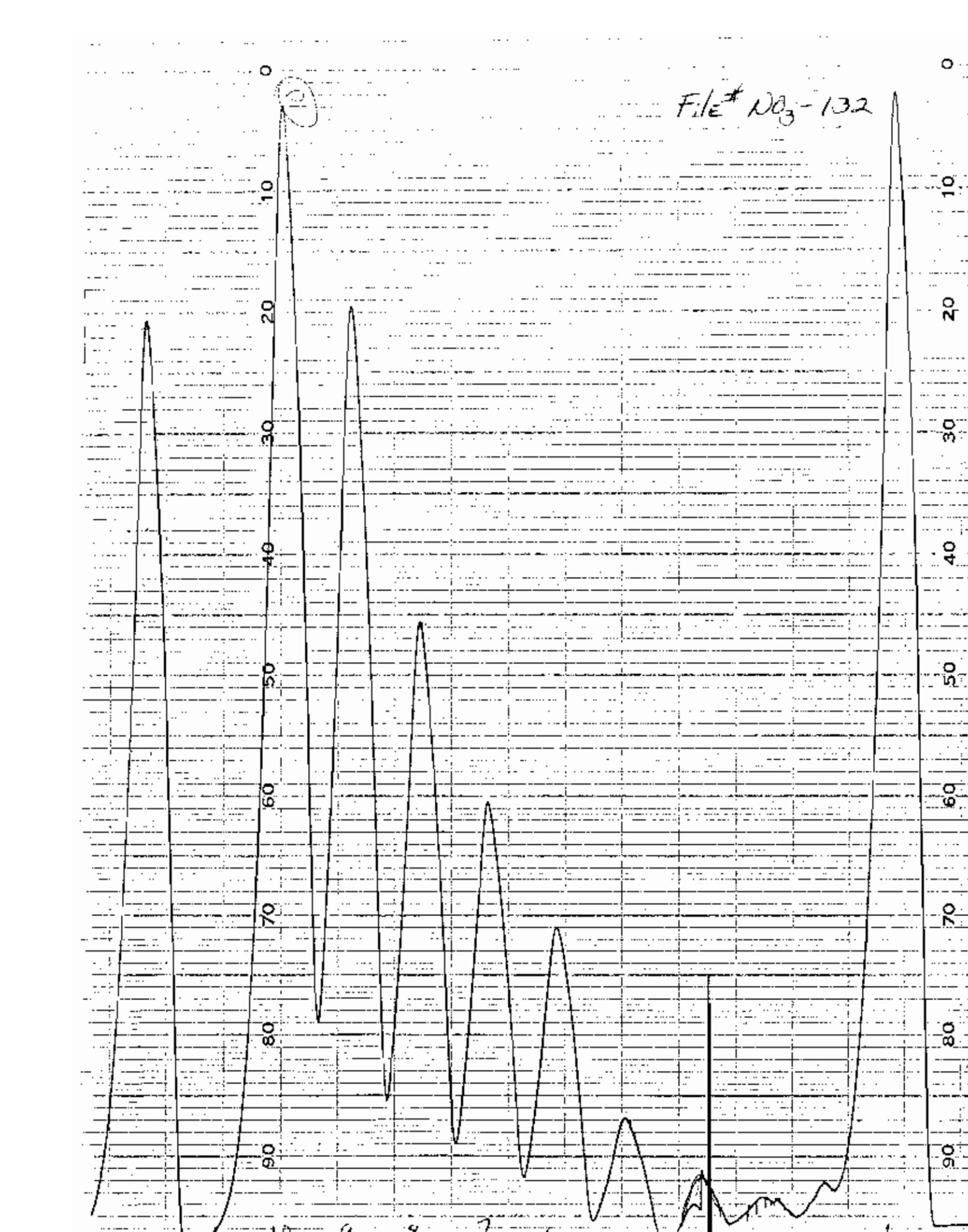
*** ANALYTICAL RESULTS ***

TRAY	SMPL.#	CHANNEL "A"	% Drift	CHANNEL "B"	% Drift	NITRATE	% Drift	CHANNEL "D"	% Dri
23	23	.466E-01		.000		.307		.000	
24	24	.468E-01		.000		.383		.000	
25	25	.468E-01		.000		.154		.000	
26	26	.468E-01		.000		.192		.000	
27	27	.468E-01		.000		.355		.000	
28	28	.469E-01		.000		.652E-01		.000	
29	29	.468E-01		.000		.151		.000	
30	30	.468E-01		.000		.272		.000	
31	31	.469E-01		.000		.176		.000	
32	32	.468E-01		.000		.305E-01		.000	
34	Ref Std.	.468E-01	.0	.000	.0	.968	-3.3	.000	
35	35	.469E-01		.000		.220		.000	
36	36	.468E-01		.000		1.45		.000	
37	37	.468E-01		.000		1.01		.000	
38	38	.468E-01		.000		1.03		.000	
39	39	.468E-01		.000		1.19		.000	
40	40	.468E-01		.000		.502		.000	
41	41	.468E-01		.000		.402		.000	
42	42	.468E-01		.000		.743E-01		.000	
43	43	.468E-01		.000		.190		.000	
44	44	.468E-01		.000		1.01		.000	
45	45	.468E-01		.000		1.07		.000	
46	46	.468E-01		.000		1.66		.000	
47	47	.468E-01		.000		1.68		.000	
48	48	.469E-01		.000		.564E-01		.000	
49	49	.468E-01		.000		.644E-01		.000	
50	50	.468E-01		.000		.694E-01		.000	
51	51	.468E-01		.000		.504E-01		.000	
52	52	.468E-01		.000		.196		.000	
53	53	.468E-01		.000		.562		.000	
54	54	.468E-01		.000		.936		.000	
56	Ref Std.	.468E-01	.0	.000	.0	.968	-3.3	.000	
57	57	.468E-01		.000		.998		.000	
58	58	.468E-01		.000		.762		.000	
59	59	.468E-01		.000		.922		.000	
60	60	.468E-01		.000		.850		.000	
61	61	.468E-01		.000		.910		.000	
62	62	.468E-01		.000		.696		.000	
63	63	.468E-01		.000		.866		.000	
64	64	.468E-01		.000		.234		.000	
65	65	.468E-01		.000		.763E-01		.000	
66	66	.468E-01		.000		.684E-01		.000	

69	69	.468E-01	.000		.763E-01		.000	

*** ANALYTICAL RESULTS ***

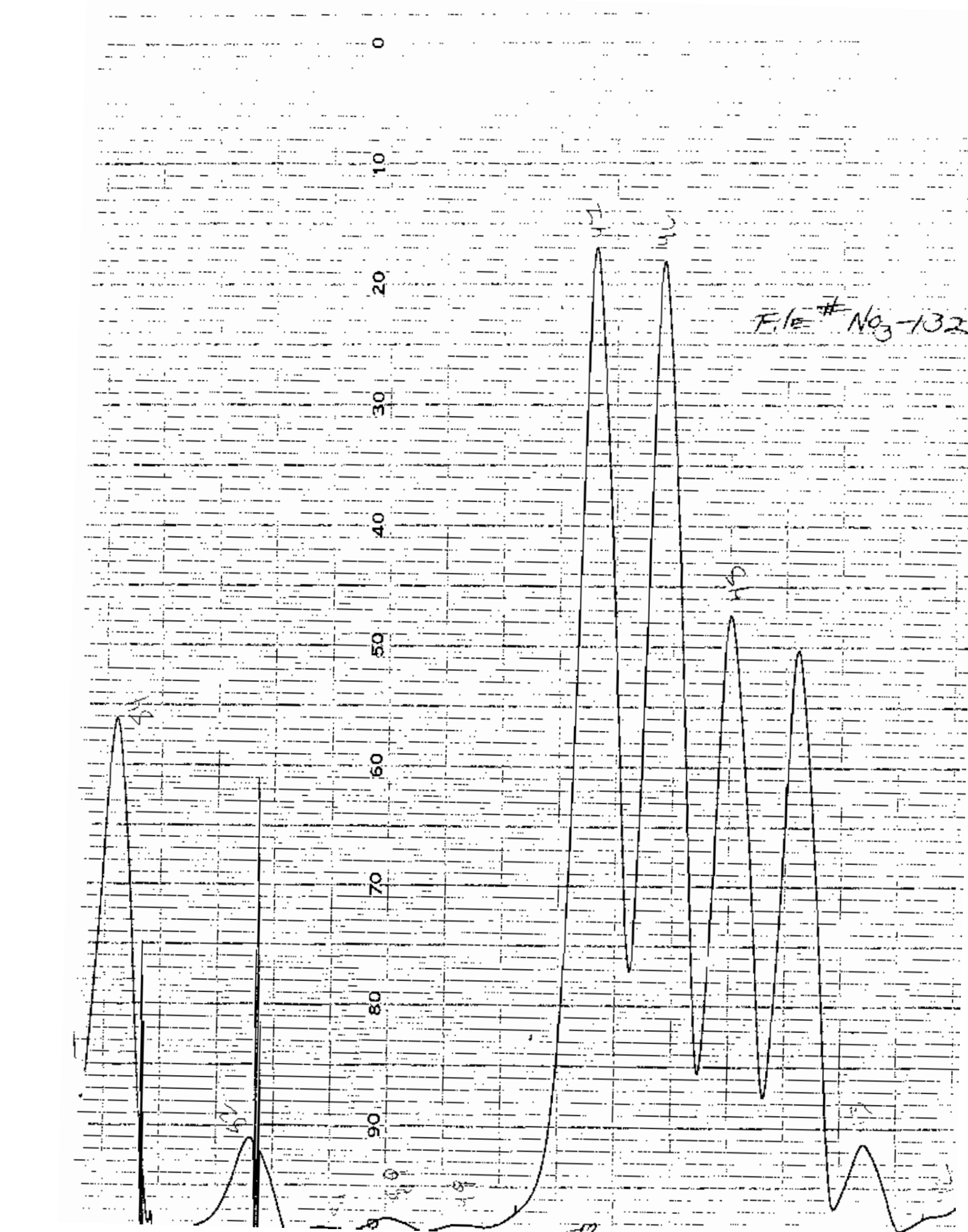
TRAY	SMPL. #	CHANNEL "A"	% Drift	CHANNEL "B"	% Drift	NITRATE	% Drift	CHANNEL "D"	% Dri
70	70	.468E-01		.000		.504E-01		.000	
71	71	.468E-01		.000		.643E-01		.000	
72	72	.469E-01		.000		.564E-01		.000	
73	73	.468E-01		.000		.624E-01		.000	
74	74	.469E-01		.000		.19%		.000	
75	75	.468E-01		.000		.646E-01		.000	
76	76	.468E-01		.000		.484E-01		.000	
78	Ref Std.	.468E-01	.0	.000	.0	.968	-3.3	.000	
79	79	.468E-01		.000		.106E-01		.000	
80	80	.468E-01		.000		.106E-01		.000	
81	81	.468E-01		.000		.444E-01		.000	
82	82	.469E-01		.000		1.10		.000	
83	83	.469E-01		.000		.406		.000	
84	84	.468E-01		.000		.557		.000	
85	85	.468E-01		.000		.943E-01		.000	
86	86	.468E-01		.000		.096		.000	
88	Ref Std.	.468E-01	.0	.000	.0	.968	-3.3	.000	


File # NO3 - 132
0
10
20
30
40
50
60
70
80
90

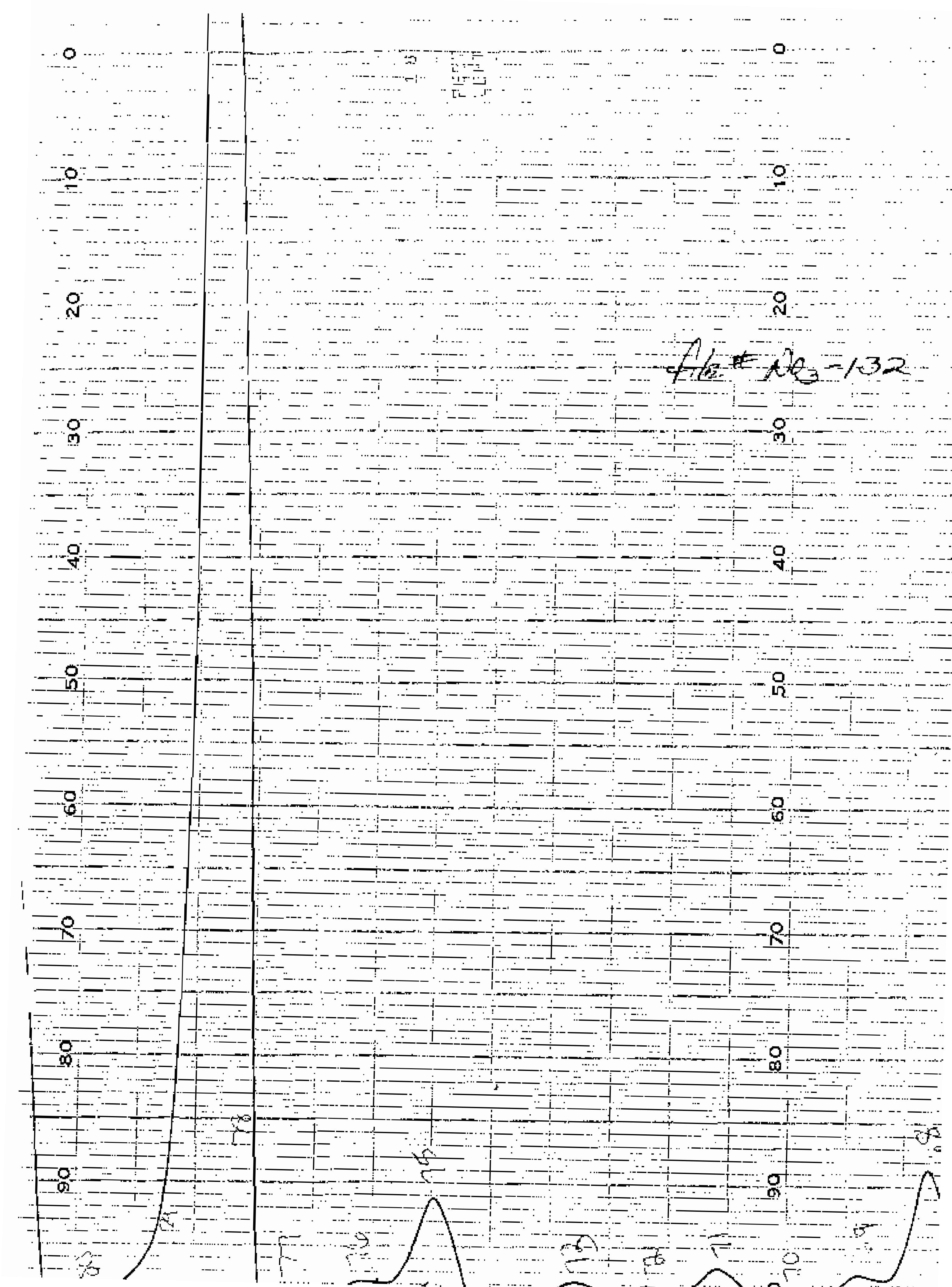
File # No 3 -132

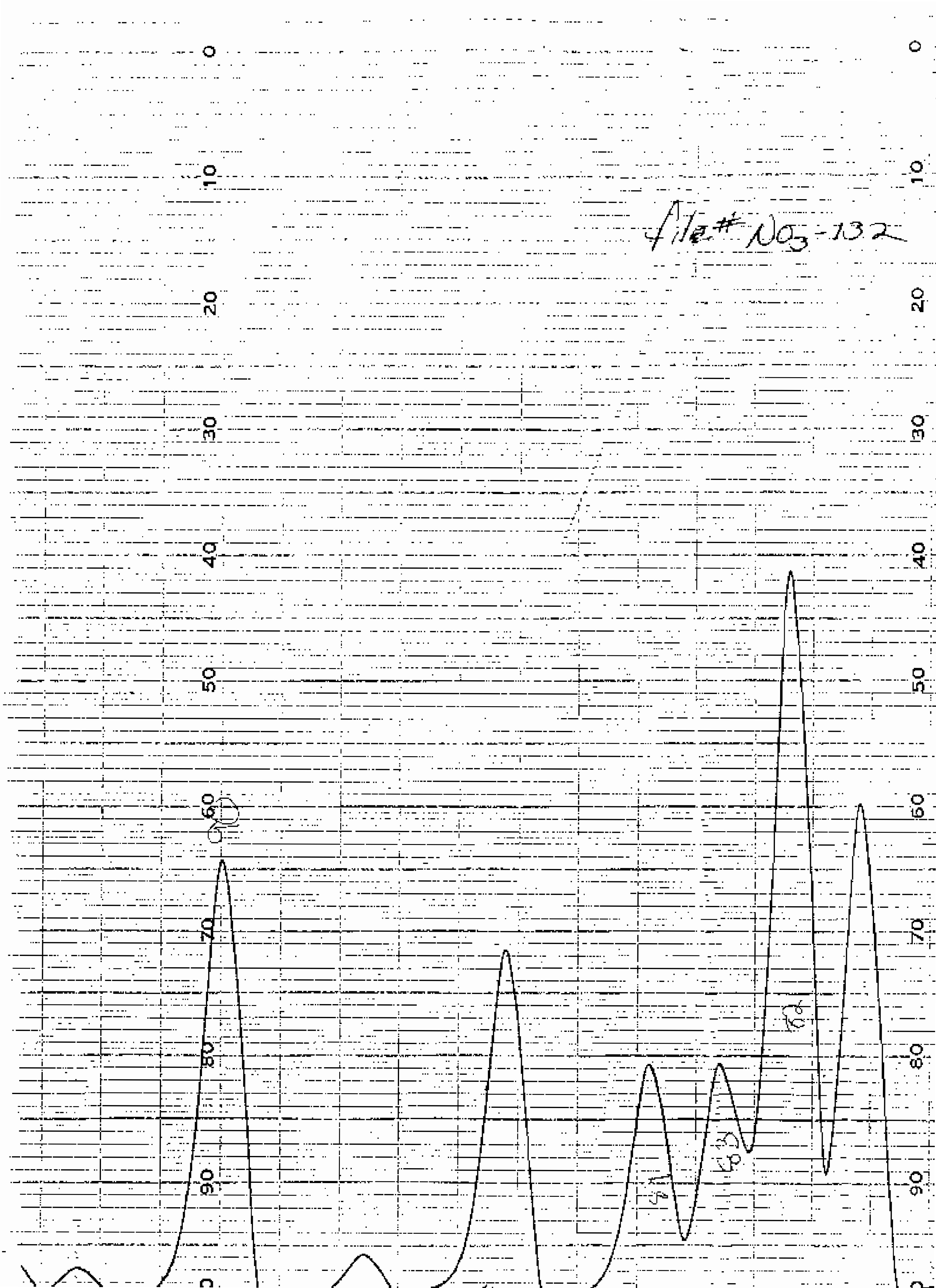
0
10
20
30
40
50
60
70
80
90

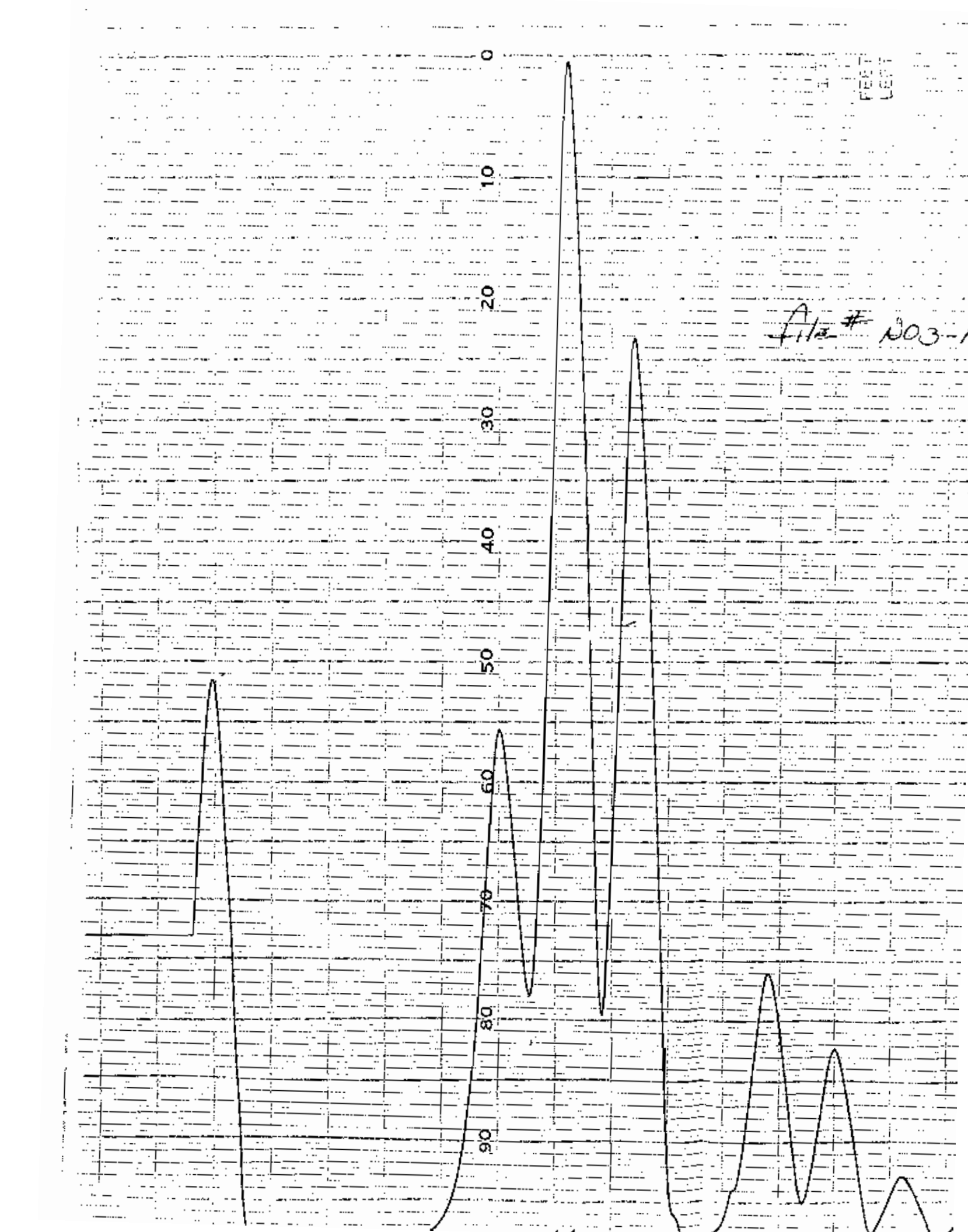
file # 103-132
0
10
20
30
40
50
60
70
80
90


0
10
20
30
40
50
60
70
80
90
File # No3-132

0
10
20
30
40
50
60
70
80
90
file # X03-132


File # NO3-132


File# NO3-132


0
10
20
30
40
50
60
70
80
90
File # 903-

PRIMARY STANDARDS

ANALYSIS: NITRATE

STANDARD USED: KNO_3

ANALYST	DATE	WEIGHT	VOLUME DILUTED	PRESERVATIVE
KB	1/2/85	7.218g KNO_3	1 liter	chloroform 2mls

SECTION II
SUBPART D-4

RAW DATA FOR:

NITRITE

1115 5/2/85

general testing corporation

gtc

AUTO ANALYZER ANALYSIS: NITRATE

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR	N mg/l
1	2.00 ppm								
2	BLANK								
3	.05 ppm std								
4	.10								
5	.20								
6	.50								
7	.70								
8	1.00								
9	1.50								
10	2.00								
11	BLANK								
12	1.00 ppm std.							(99.5%)	.995
13	Influent	5070.5	A						.05
14			B						4.2
15			C						<.05
16			D						.05
17			E						<.05
18			F					(.042)	<.05
19			F dup					(.041)	
20			F spk (.20 ppm)		*			(.232)	
21	BLANK-	50.Kc		"	*			(.198)	
22	CMHP	50726		"					<.05
23	BLANK								
24	1.00								
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

* 20 ul 100 ppm Stock To 10 mls Sample

CK 5-2-85

5/2/85

PRECISION:

	High Level	Low Level
Warning Limit:		
Critical Limit:		

	First Value	Second Value	A-B	A+B	$(\frac{A-B}{A+B})$	$\frac{A-B}{A} \times 100$
405-F	6.05	6.05	--	--	---	--

SPIKED RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

	Sample Value	Spiked Value	Amount Added	Amount Recovery	% Recovery
405-F	.042	.232	.0191	.0190	99.5%

* 2nd J

UCL	UWL	LCL	LWL

% Recovery

From the desk of

A .0190 g Diff = .0191

B .0192 g

Weight of water delivered from pipetor set at 20 ul

M Shaw 5/2/85

RESULTS FROM RAW DATA FILE NO2-8XX.RAW

DATE 5- 2-85 TIME 14:54

METHOD NAME - NO2 SAMPLES/HR. = 30
SAMPLE/WASH RATIO = 1.000 SAMPLES/REFERENCE = 10

REF STANDARD CONC. = "A" .000 "B" .000 "C" 1.000 "D" .000
CHECK SAMPLE CONC. = "A" .000 "B" .000 "C" 1.000 "D" .000

*** STANDARDS DATA ***

TRAY POS.	STD #	CHANNEL "A"	CHANNEL "B"	NITRITE	CHANNEL
3	STD-1	.000	.000	2.037	.000
4	STD-2	.000	.000	4.343	.000
5	STD-3	.000	.000	9.426	.000
6	STD-4	.000	.000	24.806	.000
7	STD-5	.000	.000	34.918	.000
8	STD-6	.000	.000	47.547	.000
9	STD-7	.000	.000	71.444	.000
10	STD-8	.000	.000	91.950	.000

*** CHECK SAMPLE RAW RESULTS ***
CHECK SAMPLE I.D. NUMBER ----- STD#6

11	BLANK SMPL	100.00	100.00	.84990	100.00
12	CHECK SMPL	.00000	.00000	48.496	.00000

*** RAW DATA RESULTS ***

TRAY #	SMPL.#	CHANNEL "A"	CHANNEL "B"	NITRITE	CHANNEL
13	50705-A	.000	.000	2.80	.000
14	50705-B	.000	.000	2.06	.000
15	50705-C	.000	.000	1.17	.000
16	50705-D	.000	.000	.360	.000
17	50705-E	.000	.000	-.107E-01	.000
18	50705-F	.000	.000	2.32	.000
19	705-FDUP	.000	.000	2.25	.000
20	705-FSPK	.000	.000	12.4	.000
21	BLK-SPK	.000	.000	10.1	.000
22	BLK-SPK	.000	.000	-.427E-01	.000
23	Blank	.100E+03	.100E+03	-.962	.100E+
24	Ref Std.	.000	.000	47.1	.000

RESULTS FROM REPORT FILE NO2--BXX.RPT

DATE 5- 2-95 TIME 14:54

METHOD NAME -- NO2 SAMPLES/HR. - 30
SAMPLE/WASH RATIO - 1.000 SAMPLES/REFERENCE -- 10

REF STANDARD CONC. - "A"	.000	"B"	.000	"C"	1.000	"D"	.000
CHECK SAMPLE CONC. - "A"	.000	"B"	.000	"C"	1.000	"D"	.000

*** STANDARDS DATA ***

TRAY POS.	STD #	CHANNEL "A"	CHANNEL "B"	NITRITE	CHANNEL
3	STD-1	-1.000	-1.000	.050	-1.000
4	STD-2	-1.000	-1.000	.100	-1.000
5	STD-3	-1.000	-1.000	.200	-1.000
6	STD-4	-1.000	-1.000	.500	-1.000
7	STD-5	-1.000	-1.000	.700	-1.000
8	STD-6	-1.000	-1.000	1.000	-1.000
9	STD-7	-1.000	-1.000	1.500	-1.000
10	STD-8	-1.000	-1.000	2.000	-1.000

*** CHECK SAMPLE RESULTS ***
CHECK SAMPLE I.D. NUMBER ---- STD#6

12	CHECK SMPL	.000	.000	.983	.000

*** CALIBRATION CURVES APPLIED ***

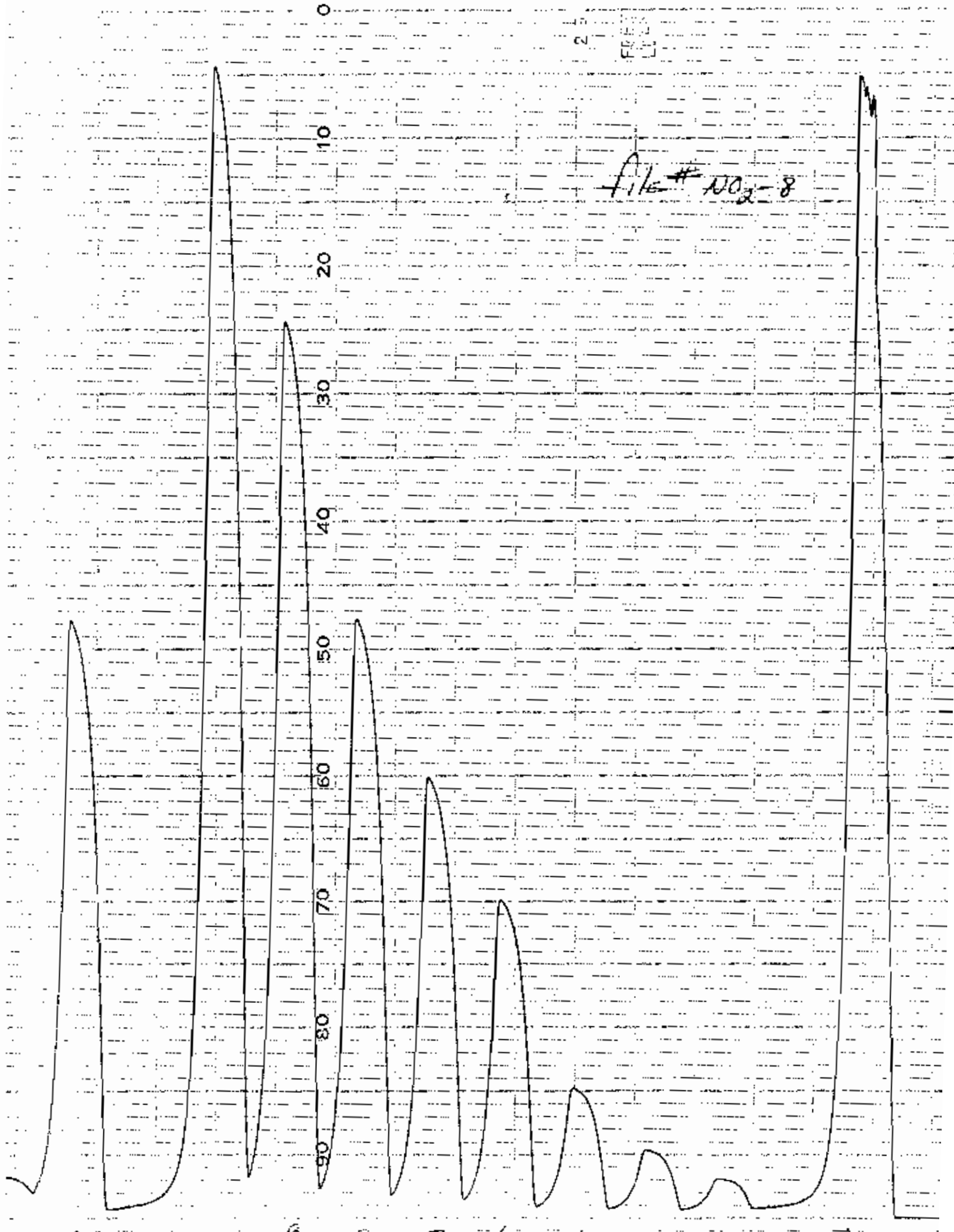
CHANNEL "A"	Y =	.00000	X^2	.00000	X + .00000
CHANNEL "B"	Y =	.00000	X^2	.00000	X + .00000
NITRITE	Y =	.27209E-04	X^2	.18998E-01	X + .14825E-01
CHANNEL "D"	Y =	.00000	X^2	.00000	X + .00000

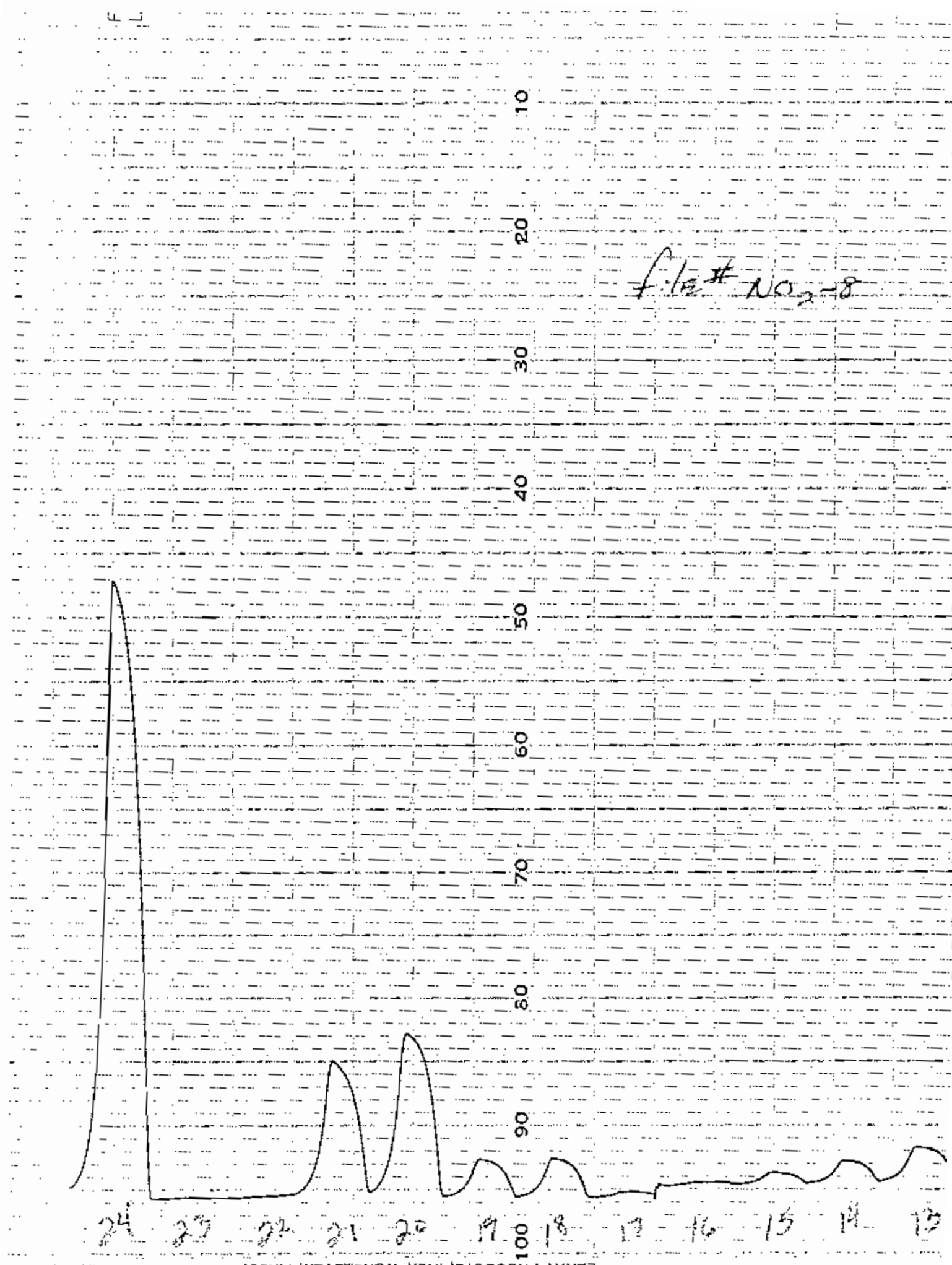
*** ANALYTICAL RESULTS ***

TRAY	SMPL.#	CHANNEL "A" % Drift	CHANNEL "B" % Drift	NITRITE % Drift	CHANNEL "I % I
13	50705-A	.000	.000	.516E-01	.000
14	50705-B	.000	.000	.375E-01	.000
15	50705-C	.000	.000	.205E-01	.000
16	50705-D	.000	.000	.531E-02	.000
17	50705-E	.000	.000	-.138E-02	.000
18	50705-F	.000	.000	.420E-01	.000
19	705-FDUP	.000	.000	.407E-01	.000
20	705-FSPK	.000	.000	.232	.000
21	BLK-SPK	.000	.000	.188	.000

*** ANALYTICAL RESULTS ***

TRAY	SMPL.#	CHANNEL "A"	% Drift	CHANNEL "B"	% Drift	NITRITE	% Drift	CHANNEL "D"	% Drif
24	Ref Std.	.000	.0	.000	.0	1.04	3.4	.000	.


0
10
20
30
40
50
60
70
80
90
file # 002-8


file # NO2-8
10
20
30
40
50
60
70
80
90
100
25 24 23 22 21 20 19 18 17 16 15 14 13
ELKAY PRODUCTS, INC., WORCESTER, MASS.
CHART No. LF

general testing corporation

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

910 K. Bunker 5/6/85

AUTO ANALYZER ANALYSIS: Nitrite

Corr. .999

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR	N mg/l
1	2.00								
2	Blank				5.1				
3	.05				7.5				
4	.10				9.9				
5	.20	None Detected			14.7				
6	.30				29.1				
7	.70				36.6				
8	1.00				52.5				
9	1.50				74.5				
10	2.00				94.8				
11	Blank				5.0				
12	1.00				52.5			1.03	
13	Dalton.	50705	G		7.1			.023	<.05
14			G d		7.0			.021	<.05
15			G spk (.2ppm)		16.9			.240	
16	method Blank				5.0				
17	Blank + spk (.2ppm)				14.7			.191	
18	Blank				5.0				
19	1.00				52.0				
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

K. Bunker
5/6/85

QUALITY CONTROL 102 5/6/85

PRECISION:

	High Level	Low Level
Warning Limit:		
Critical Limit:		

First Value	Second Value	A-B	A+B	$(\frac{A-B}{A+B})$	$\frac{A-B}{A} \times 100$
<.05	<.05				

SPIKED RECOVERY:

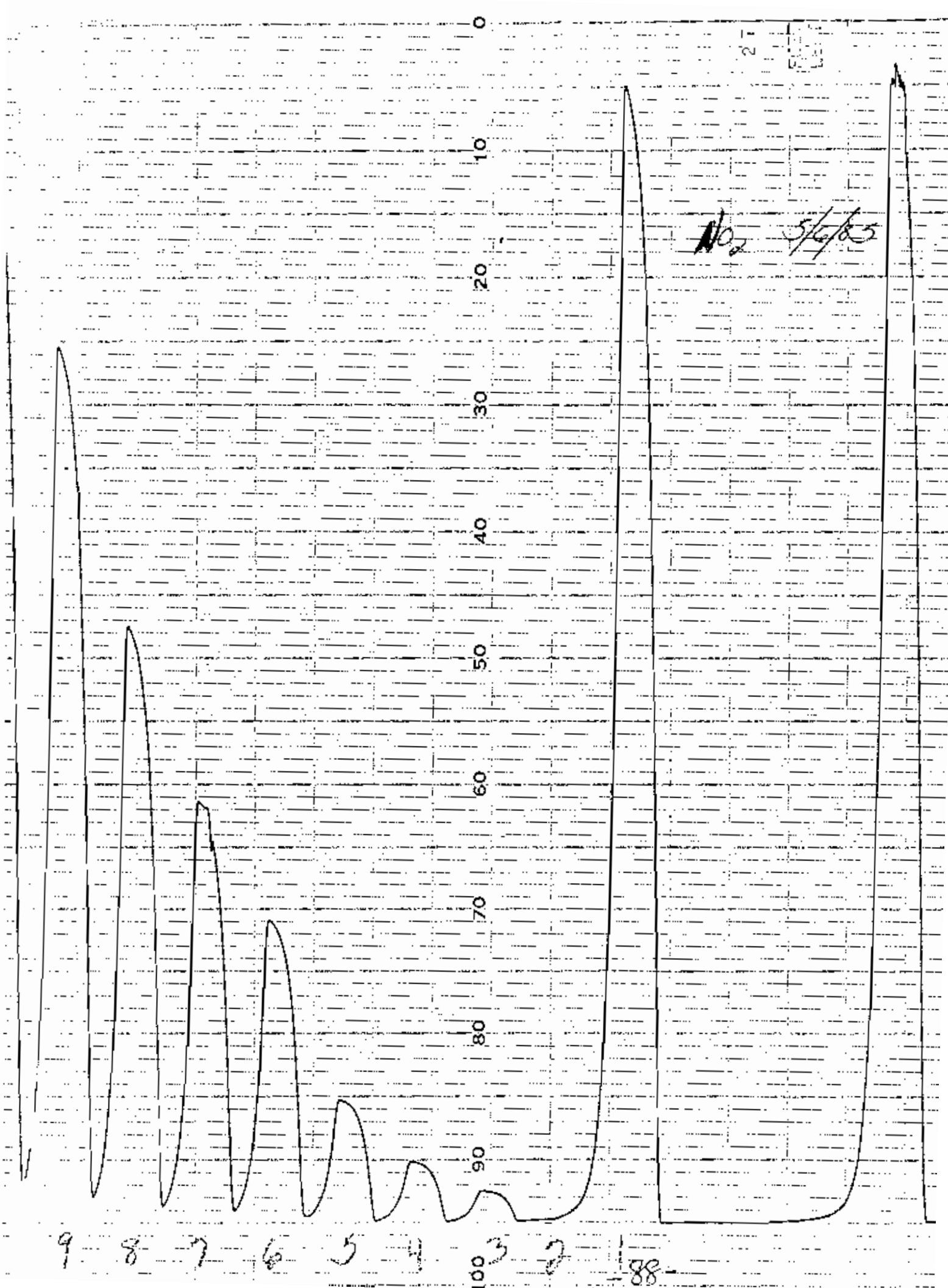
	UCL	UWL	LCL	LWL
High Level				
Low Level				

Sample Value	Spiked Value	Amount Added	Amount Recovery	% Recovery
<.05 .022	.240	.200	.218	109%
ANK 0	.191	.200	.191	95.5%

EPA STANDARD RECOVERY:

	UCL	UWL	LCL	LWL
None Available High Level				
Low Level				

True Value	Analytical Value	% Recovery
1.00	1.028	102.8%


0
10
20
30
40
50
60
70
80
90
100
NO2 5/6/85
9 8 7 6 5 4 3 2 1
-88-

FEET
0
10
20
30
40
50
60
70
80
90
100
NO_2 5/6/85

PRIMARY STANDARDS

ANALYSIS: Nitrite

STANDARD USED: NaKNO$_2$

ANALYST	DATE	WEIGHT	VOLUME DILUTED	PRESERVATIVE
KB	7/84	5.64g	1000 ml	None

SECTION TT
SUBPART D-5

RAW DATA FOR:

PHENOLICS

general testing corporation

gtc

water and wastewater testing specialists

AUTO ANALYZER ANALYSIS: Phenolics

PA2-43

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR	N mg/l
1	.150 ppm Std.				90.3				
2	BLANK				1.1				
3	.005	"			2.5				
4	.010	"			5.4				
5	.020	"			11.1				
6	.050	"			28.3				
7	.070	"			39.6				
8	.100	"			61.1				
9	.150	"			92.7				
10	BLANK				2.1				
11	Phenol Check Sample Exp#6				23.2		.039		
12		5C680	A		1.5		.002		<.005
13		"	B		0.8		.0004		<.005
14		"	C		3.1		.004		<.005
15		"	D		0.0		.0009		<.005
16		5C744	D		2.1		.003		<.005
17		"	E		1.0		.0008		<.005
18		"	G		3.5		.005		.005
19		"	H		5.0		.008		.008
20		"	I		1.0		.0006		<.005
21		"	J		10.2		.016		.02
22		"	K		2.4		.003		<.005
23		"	L		4.2		.006		.006
24		"	M		0.8		.0005		<.005
25		"	N		0.9		.0007		<.005
26		"	N duplicate		1.2		.001		<.005
27		"	N Spike	(1)	30.8		.0491		
28	BLANK	Spike (.020 ppm)			13.9		.022		
29		5C770	E		5.6		.008		.008
30		"	J		2.0		.003		<.005
31		"	K		0.7		.0004		<.005
32	BLANK				0.0				
33	.070 ppm Std.				43.0		.075		
34		5C770	L		4.3		.0067		.01
35		"	M		1.3		.0048		<.005
36		"	Q		8.0		.016		.02
37		"	R		7.3		.015		.02
38		"	S		2.8		.007		.007
39		"	T		6.2		.013		.01
40		"	U		11.2		.022		.02

(1) 50 ul 10 ppm Intermediate Stock phenol Solution into 10 mls of Sample.

general testing corporation

g t c

AUTO ANALYZER ANALYSIS: Phenolics

water and wastewater testing specialists

PAL-43

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR	N mg/l
41		5e220	A		4.5		.010		.01
2		"	A duplicate		4.4		.010		
3		"	A Spike (1)		33.6		.0592		
4	Method	BLANK			1.3		.004		< .005
5	BLANK	Spike (.020 ppm)			11.6		.022		
6	U.S. Filter	Se205	A		4.0		.0091		.010 ✓
7	"	"	B		3.5		.0089		.009 ✓
8	"	"	C		2.5		.0072		.007 ✓
9	"	"	D		2.0		.0063		.006 ✓
10	"	"	E		2.5		.0073		.007 ✓
11	"	"	F		2.6		.0075		.008 ✓
12	"	"	G		2.3		.0069		.007 ✓
13	"	"	G duplicate		2.3		.0070		
14	BLANK				-0.9				
15	.020 ppm Std				38.3		.0663	Dry wt.	
16 **	Phenol Check Sample - EPA #6				21.9		.0377	↓	
17 **	U.S. DALTON	50705	O	10.32g	2.5		.0065	.79 mg/g	.126 mg/l
18 **			O duplicate		2.1		.0059		
19 **			O Spk (1)		30.1		.0504		
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

** Values not entered on computer
Manual regression done on TI-55 calculator
Corr Coef - .999 (Peak 71, 72, 73, 74)

* Sample Manually distilled prior To Analysis, Final Volume 200 mls.

PRECISION:

	High Level	Low Level
Warning Limit:	20%	
Critical Limit:		

	First Value	Second Value	A-B	Avg	$(\frac{A-B}{A+B})$	$\frac{A-B}{A} \times 100$
744-N	<.005	<.005				
170-P	.010	.010				0%
105-G	.007	.007				
705-O	.007	.006	.001	.0065		14.3%

SPIKED RECOVERY:

	UCL	UWL	LCL	LWL
High Level	100 ± 10%			
Low Level				

	Sample Value	Spiked Value	Amount Added	Amount Recovery	% Recovery
744-N	<.005	.0491	.0495	.0491	99.1%
BLANK	<.005	.022	.020	.022	110%
"	<.005	.022	.020	.022	110%
170-P	.010	.0592	.0495	.0492	99.3%
705-O	.0062	.0509	.0495	.0447	90.3%

EPA STANDARD RECOVERY:

	UCL	UWL	LCL	LWL
High Level	100 ± 15%			
Low Level				

	True Value	Analytical Value	% Recovery
#6	.036	.039	108%
"		.038	106%

RESULTS FROM RAW DATA FILE PNL-43X.RAW

DATE 6- 7-85 TIME 11:57

METHOD NAME - PHENOL SAMPLES/HR. - 20
SAMPLE/WASH RATIO - 2.000 SAMPLES/REFERENCE - 20

REF STANDARD CONC. - "A" .000 "B" .000 "C" .070 "D" .000
CHECK SAMPLE CONC. - "A" .000 "B" .000 "C" .070 "D" .000

*** STANDARDS DATA ***

TRAY POS.	STD #	CHANNEL "A"	CHANNEL "B"	PHENOL	CHANNEL "
3	STD-1	.000	.000	1.400	.000
4	STD-2	.000	.000	4.300	.000
5	STD-3	.000	.000	10.000	.000
6	STD-4	.000	.000	27.200	.000
7	STD-5	.000	.000	38.500	.000
8	STD-6	.000	.000	60.000	.000
9	STD-7	.000	.000	91.600	.000

*** CHECK SAMPLE RAW RESULTS ***
CHECK SAMPLE I.D. NUMBER ------ EPA#6

10	BLANK SMPL	.00000	.00000	2.1000	.00000
11	CHECK SMPL	.00000	.00000	23.200	.00000

*** RAW DATA RESULTS ***

TRAY #	SMPL.#	CHANNEL "A"	CHANNEL "B"	PHENOL	CHANNEL "
12	12	.000	.000	1.50	.000
13	13	.000	.000	.800	.000
14	14	.000	.000	3.10	.000
15	15	.000	.000	.000	.000
16	16	.000	.000	2.10	.000
17	17	.000	.000	1.00	.000
18	18	.000	.000	3.50	.000
19	19	.000	.000	5.00	.000
20	20	.000	.000	1.00	.000
21	21	.000	.000	10.2	.000
22	22	.000	.000	2.40	.000
23	23	.000	.000	4.20	.000
24	24	.000	.000	.300	.000
25	25	.000	.000	.900	.000
26	26	.000	.000	1.20	.000

*** RAW DATA RESULTS ***

TRAY #	SMPL.#	CHANNEL "A"	CHANNEL "B"	PHENOL	CHANNEL "C
27	27	.000	.000	20.8	.000
28	28	.000	.000	13.9	.000
29	29	.000	.000	5.60	.000
30	30	.000	.000	2.00	.000
31	31	.000	.000	.700	.000
32	Blank	.000	.000	.000	.000
33	Ref Std.	.000	.000	43.0	.000
34	34	.000	.000	4.30	.000
35	35	.000	.000	1.30	.000
36	36	.000	.000	8.00	.000
37	37	.000	.000	7.30	.000
38	38	.000	.000	2.80	.000
39	39	.000	.000	4.20	.000
40	40	.000	.000	11.2	.000
41	41	.000	.000	4.50	.000
42	42	.000	.000	4.40	.000
43	43	.000	.000	33.4	.000
44	44	.000	.000	1.30	.000
45	45	.000	.000	11.6	.000
46	46	.000	.000	4.00	.000
47	47	.000	.000	3.50	.000
48	48	.000	.000	2.50	.000
49	49	.000	.000	2.00	.000
50	50	.000	.000	2.50	.000
51	51	.000	.000	2.40	.000
52	52	.000	.000	2.30	.000
53	53	.000	.000	2.30	.000
54	Blank	.000	.000	.700	.000
55	Ref Std.	.000	.000	38.3	.000

RESULTS FROM REPORT FILE PNL-43X.RPT

DATE 6- 7-95 TIME 11:57

METHOD NAME - PHENOL SAMPLES/HR. = 20
SAMPLE/WASH RATIO = 2.000 SAMPLES/REFERENCE = 20

REF STANDARD CONC. - "A" .000 "B" .000 "C" .070 "D" .000
CHECK SAMPLE CONC. - "A" .000 "B" .000 "C" .070 "D" .000

*** STANDARDS DATA ***

TRAY POS.	STD #	CHANNEL "A"	CHANNEL "B"	PHENOL	CHANNEL
3	STD-1	-1.000	-1.000	.005	-1.000
4	STD-2	-1.000	-1.000	.010	-1.000
5	STD-3	-1.000	-1.000	.020	-1.000
6	STD-4	-1.000	-1.000	.050	-1.000
7	STD-5	-1.000	-1.000	.070	-1.000
8	STD-6	-1.000	-1.000	.100	-1.000
9	STD-7	-1.000	-1.000	.130	-1.000

*** CHECK SAMPLE RESULTS ***
CHECK SAMPLE I.D. NUMBER ------ EPA#6

11	CHECK SMPL	.000	.000	.039	.000

*** CALIBRATION CURVES APPLIED ***

CHANNEL "A" Y = .23016E-04 X^2 .57455E-01 X + .46802E-01

CHANNEL "B" Y = .00000 X^2 .00000 X + .00000

PHENOL Y = -.18561E-05 X^2 .17714E-02 X + .26949E-02

CHANNEL "D" Y = .00000 X^2 .00000 X + .00000

*** ANALYTICAL RESULTS ***

TRAY	SMPL.#	CHANNEL "A"	% Drift	CHANNEL "B"	% Drift	PHENOL	% Drift	CHANNEL "D"	% Dr
12	12	.469E-01	.000			.164E-02		.000	
13	13	.468E-01	.000			.407E-03		.000	
14	14	.468E-01	.000			.444E-02		.000	
15	15	.468E-01	.000			-.974E-03		.000	
16	16	.466E-01	.000			.269E-02		.000	
17	17	.468E-01	.000			.790E-03		.000	
18	18	.468E-01	.000			.510E-02		.000	
19	19	.468E-01	.000			.766E-02		.000	
20	20	.468E-01	.000			.813E-03		.000	
21	21	.468E-01	.000			.104E-01		.000	

*** ANALYTICAL RESULTS ***

TRAY	SMPL. #	CHANNEL "A"	% Drift	CHANNEL "B"	% Drift	PHENOL	% Drift	CHANNEL "D"	% Dr
22	22	.468E-01		.000		.220E-02		.000	
23	23	.468E-01		.000		.624E-02		.000	
24	24	.468E-01		.000		.504E-03		.000	
25	25	.468E-01		.000		.680E-03		.000	
26	26	.468E-01		.000		.119E-02		.000	
27	27	.468E-01		.000		.491E-01		.000	
28	28	.468E-01		.000		.220E-01		.000	
29	29	.468E-01		.000		.846E-02		.000	
30	30	.468E-01		.000		.253E-02		.000	
31	31	.468E-01		.000		.397E-03		.000	
33	Ref Std.	.468E-01	.0	.000	.0	.754E-01	8.5	.000	
34	34	.468E-01		.000		.973E-02		.000	
35	35	.468E-01		.000		.484E-02		.000	
36	36	.468E-01		.000		.159E-01		.000	
37	37	.468E-01		.000		.148E-01		.000	
38	38	.468E-01		.000		.740E-02		.000	
39	39	.468E-01		.000		.131E-01		.000	
40	40	.468E-01		.000		.216E-01		.000	
41	41	.468E-01		.000		.104E-01		.000	
42	42	.468E-01		.000		.103E-01		.000	
43	43	.468E-01		.000		.592E-01		.000	
44	44	.468E-01		.000		.497E-02		.000	
45	45	.468E-01		.000		.229E-01		.000	
46	46	.468E-01		.000		.977E-02		.000	
47	47	.468E-01		.000		.893E-02		.000	
48	48	.468E-01		.000		.718E-02		.000	
49	49	.468E-01		.000		.631E-02		.000	
50	50	.468E-01		.000		.725E-02		.000	
51	51	.468E-01		.000		.746E-02		.000	
52	52	.468E-01		.000		.694E-02		.000	
53	53	.468E-01		.000		.697E-02		.000	
55	Ref Std.	.468E-01	.0	.000	.0	.663E-01	-5.7	.000	

general testing corporation

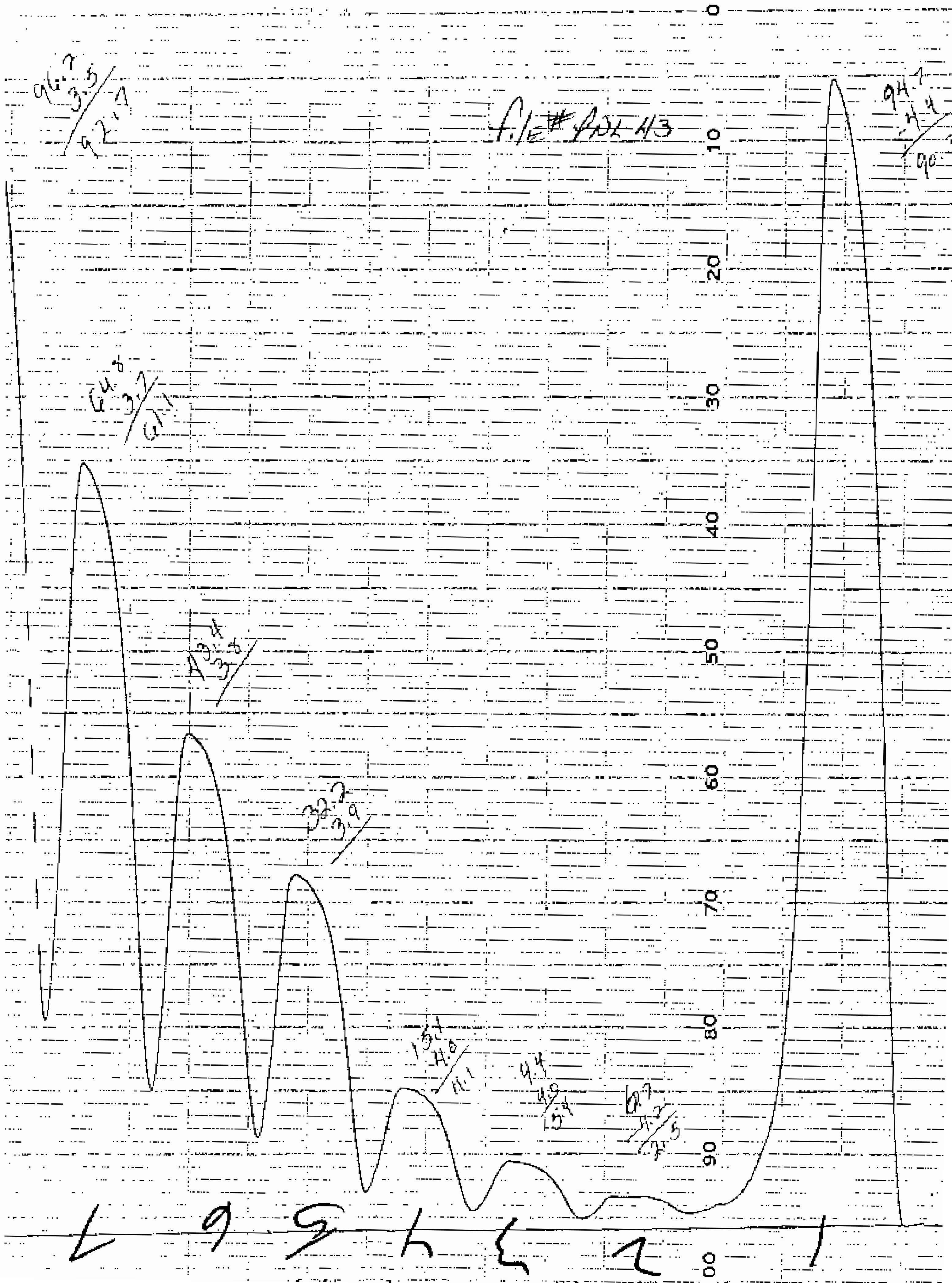
water and wastewater testing specialists

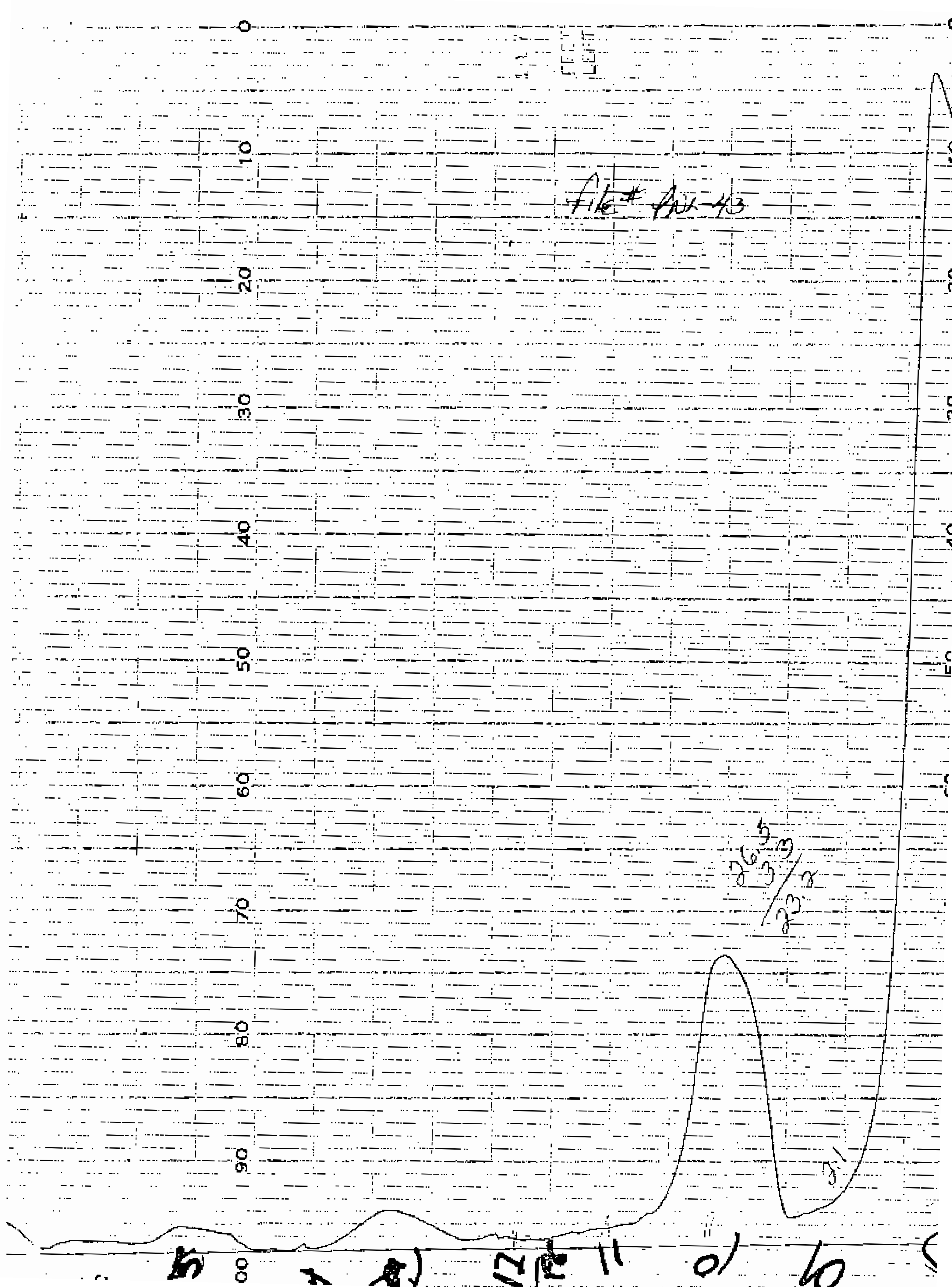
710 Exchange Street
Rochester, NY 14608
(716) 454-3760

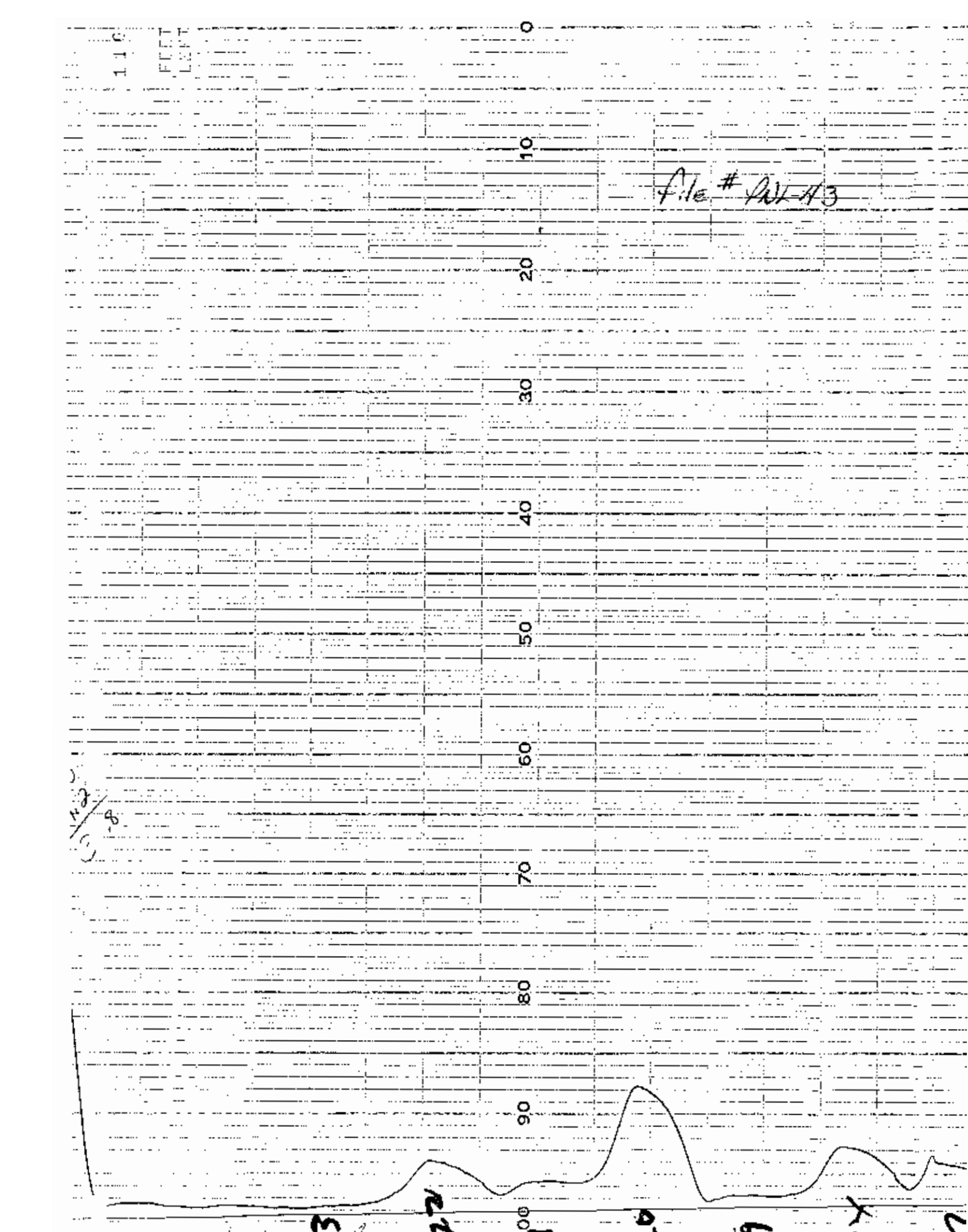
85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

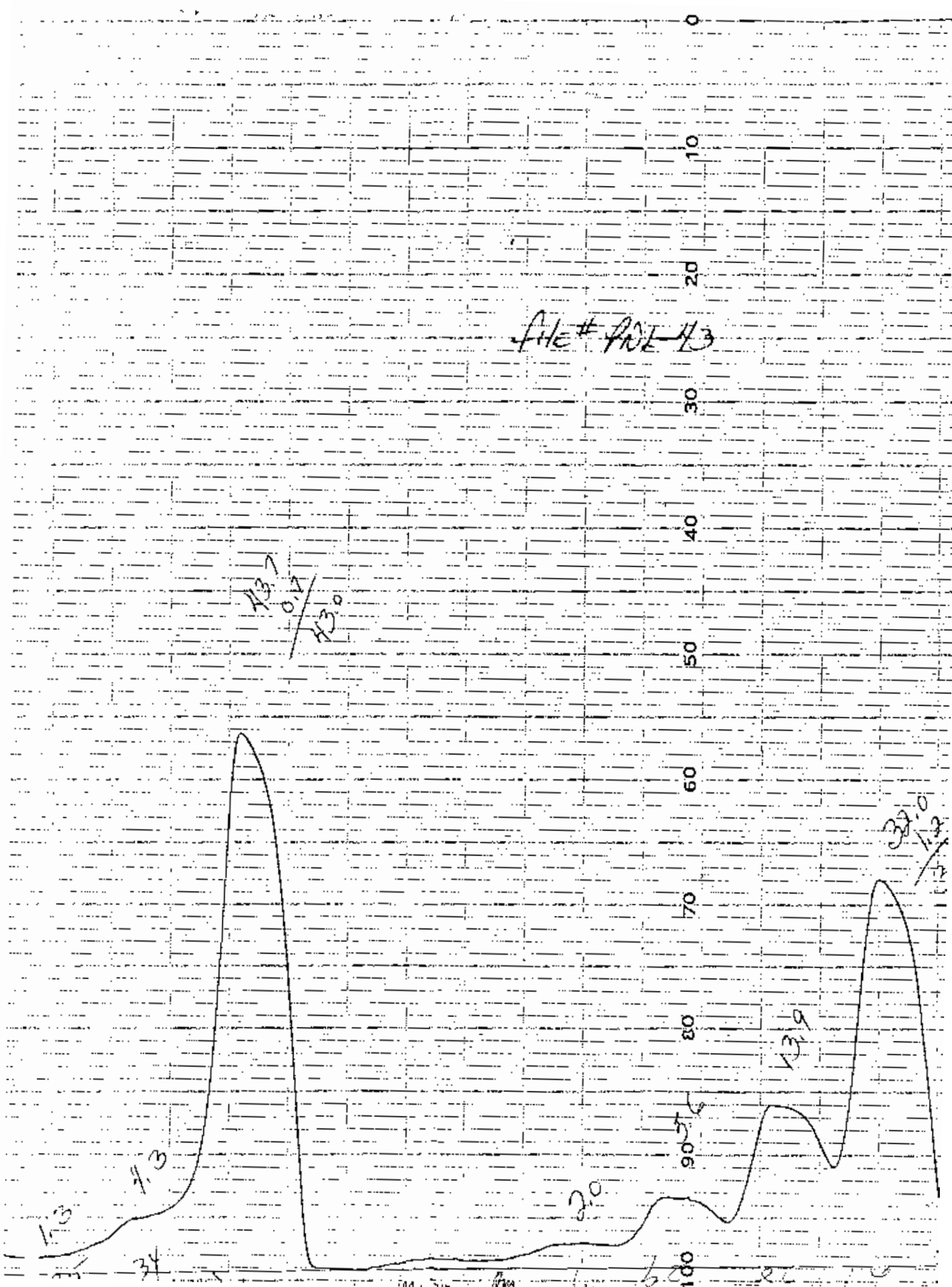
PHENOLICS DISTILLATION

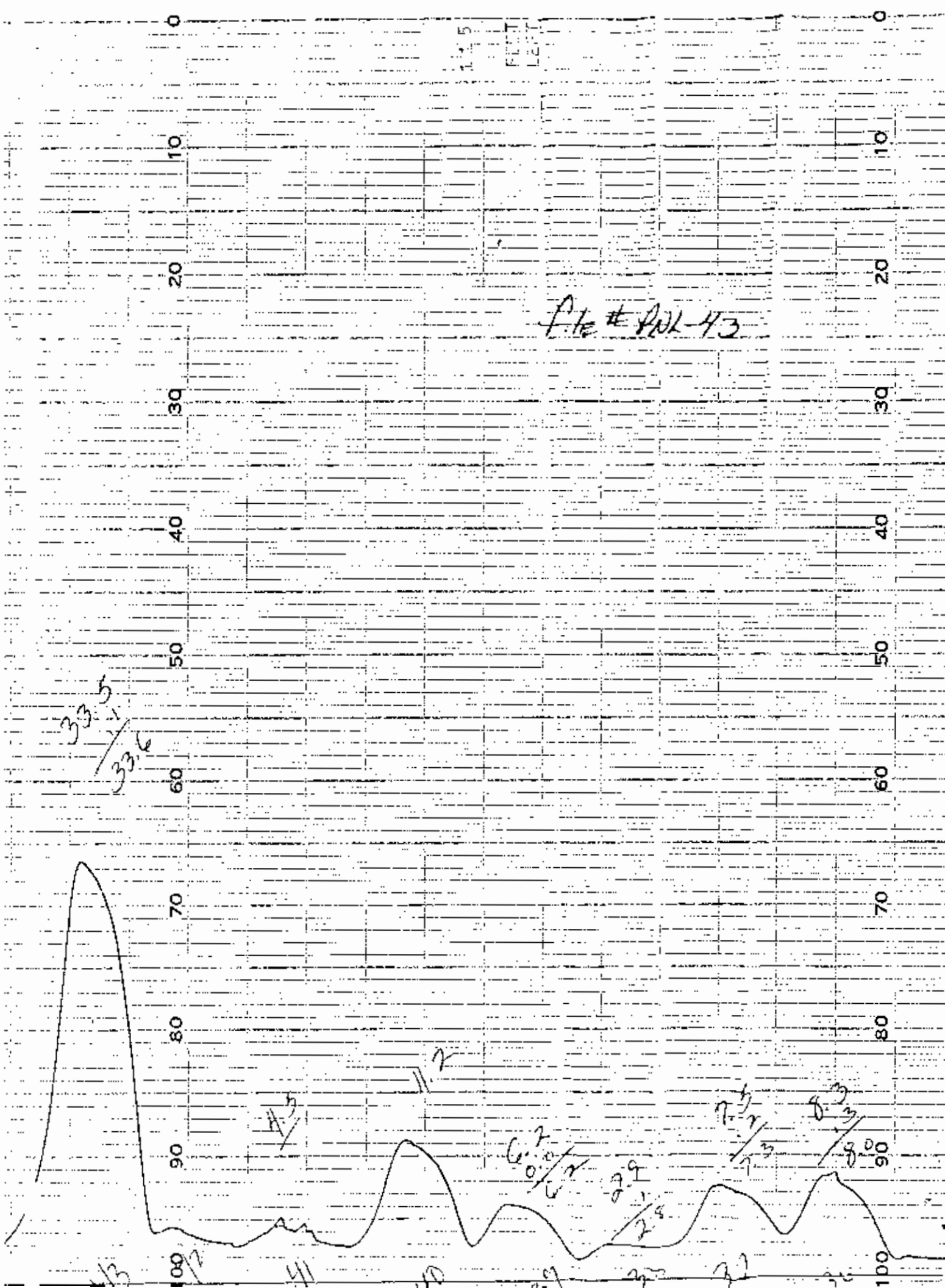
DATE	JOB #	NAME	ORIGINAL VOLUME	FINAL VOLUME	DILUTION FA
8-85	50705 J	DAITON	10.6 gm WET WT.	200 ml	
	K		12.45 gm "	"	
	M		12.38 gm "	"	
	N		10.12 gm "	"	
	O		10.32 gm "	"	
9-85	50705 H	DAYTON	10.77 gm "	"	
	I		10.31 gm "	"	
	L		12.17 gm "	"	
	50708 B	WEST FK	200	"	1
	50740A	LMI	200	"	1

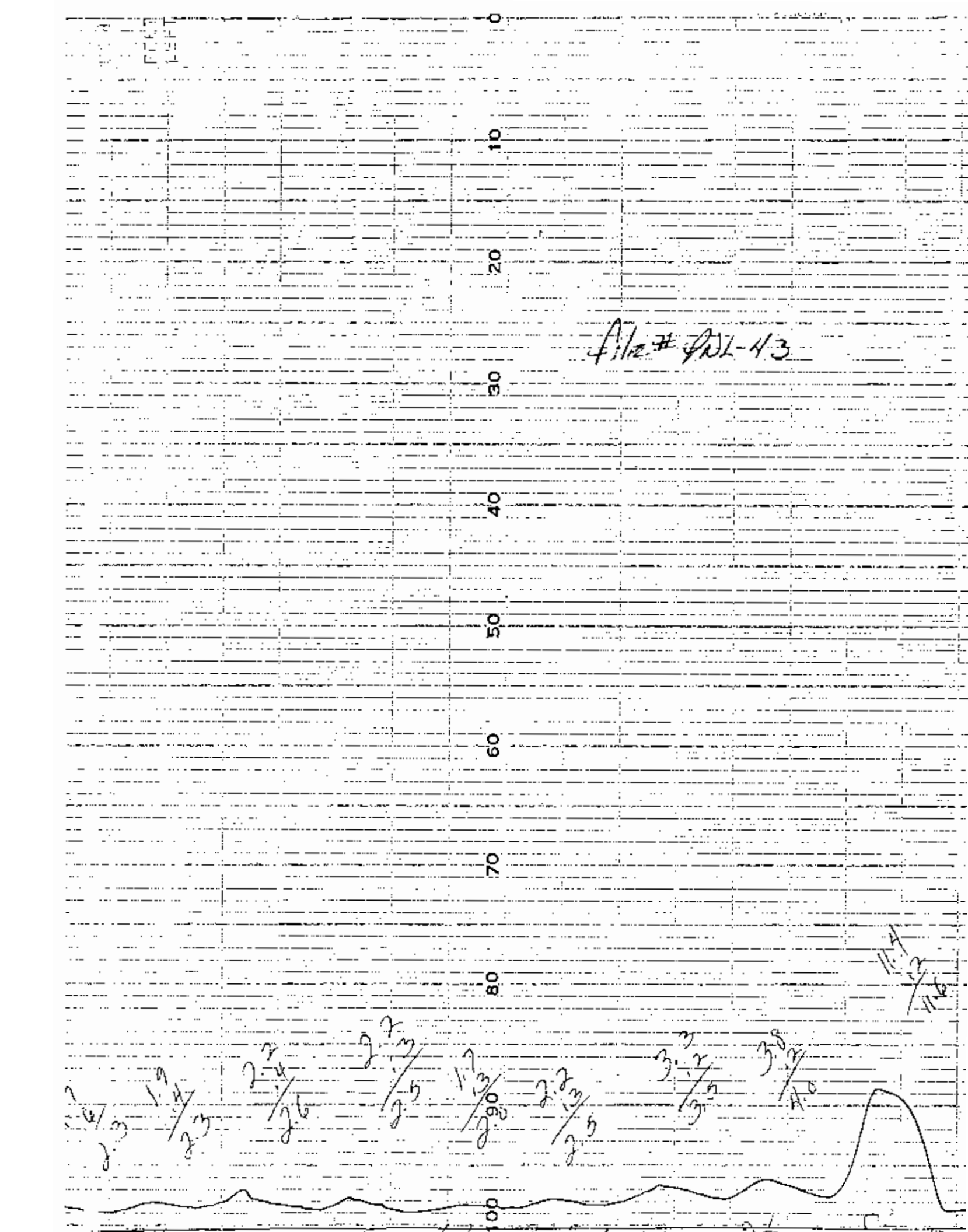

0
10
20
30
40
50
60
70
80
90
100

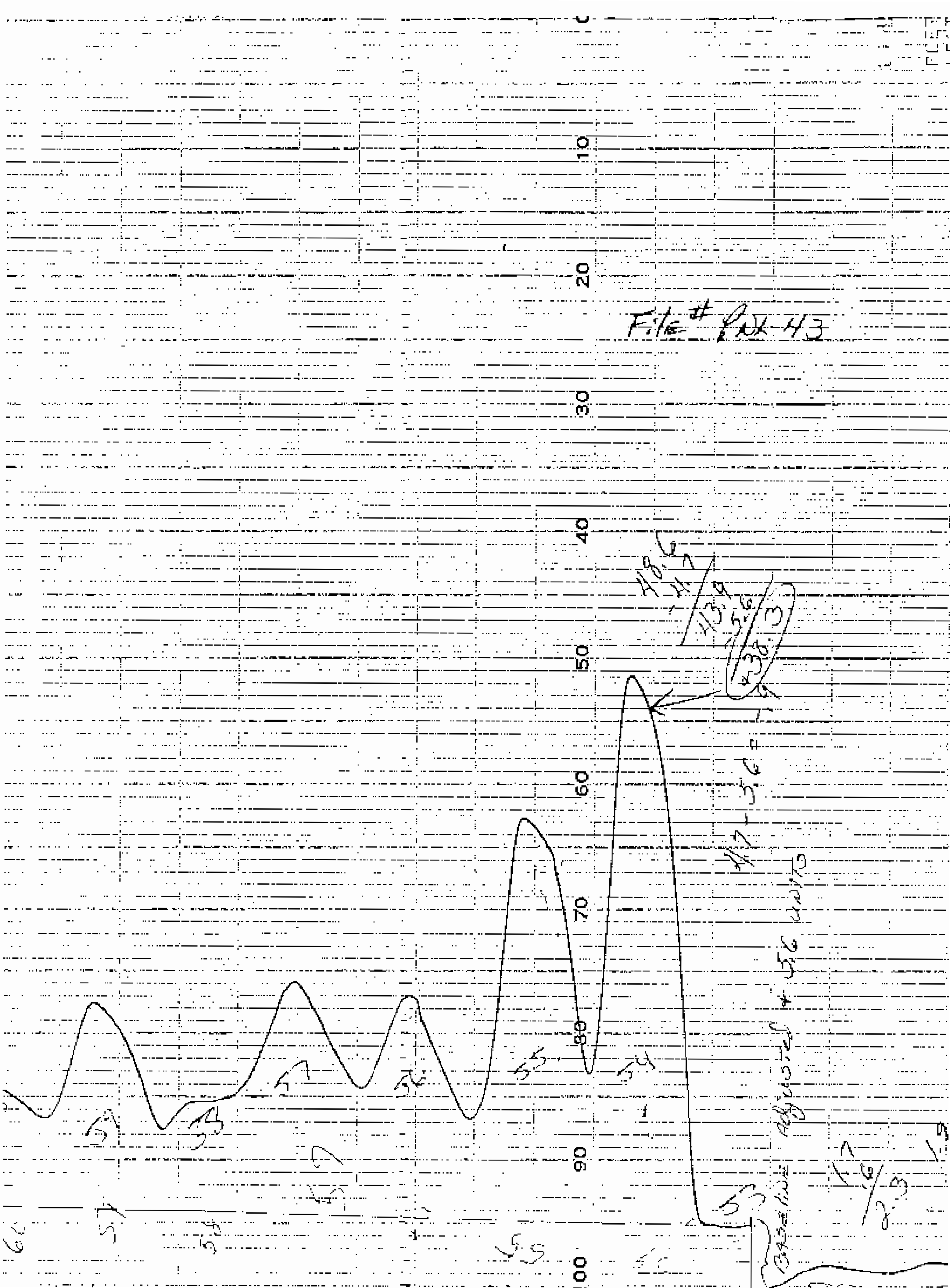

0
10
20
30
40
50
60
70
80
90

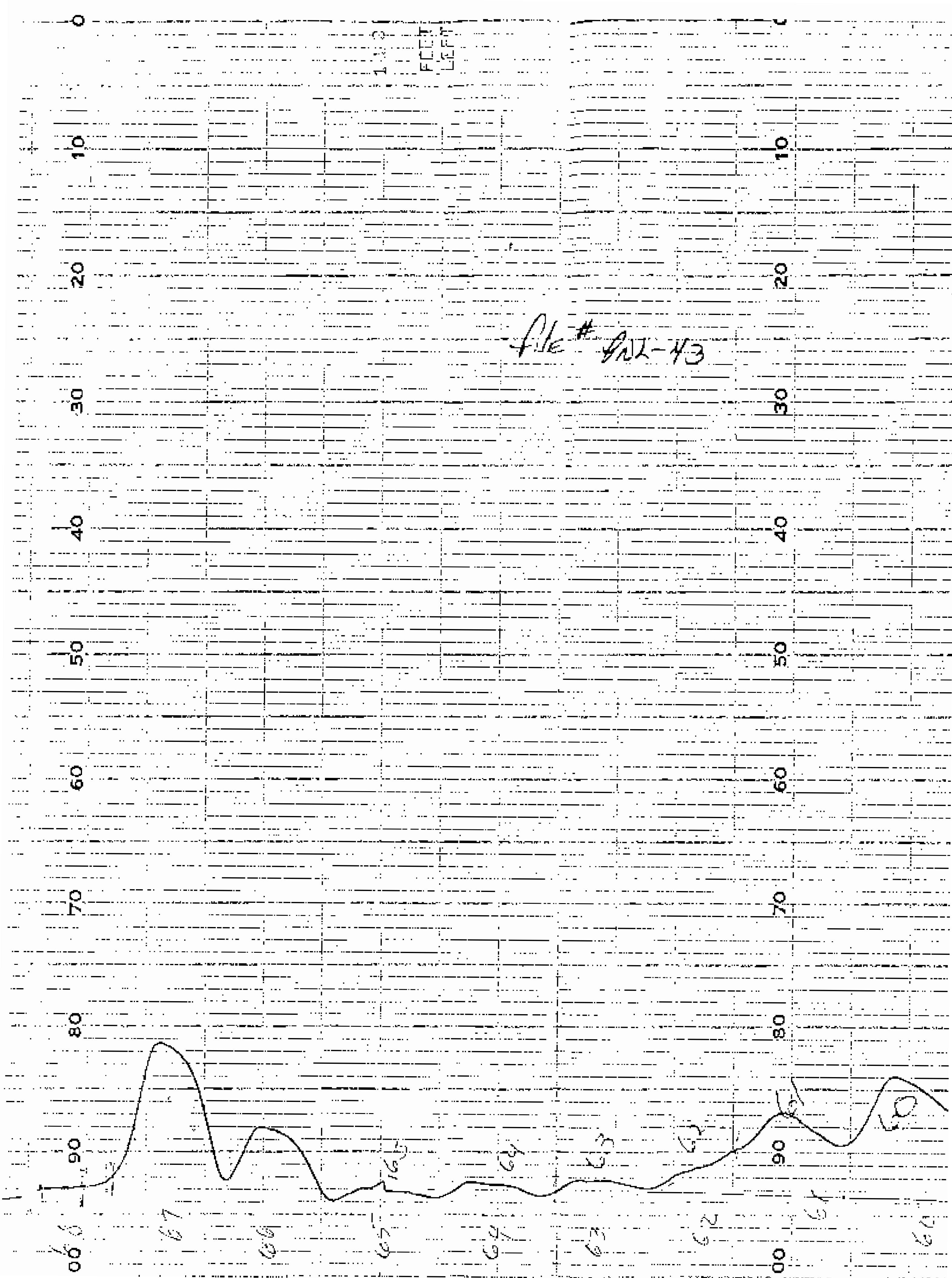

FEET
0
10
20
30
40
50
60
70
80
90
File # PW-43

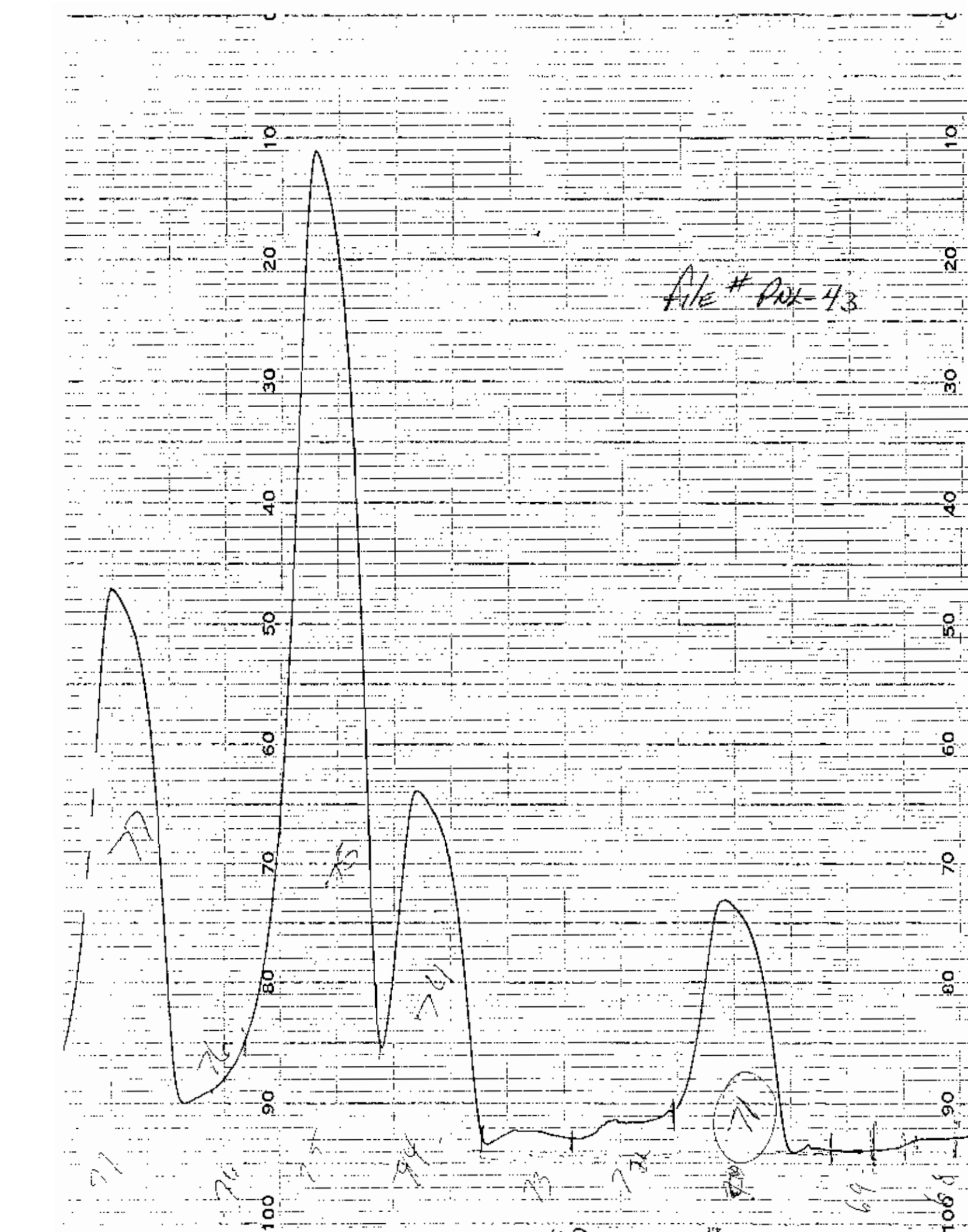

File # RDL-43
43.7
0.7
43.0
1.3
1.3
2.0
13.9
32.0
1.7


File # RWL-43


0
10
20
File # PWL-43
30
40
50
60
70
80
100


10
20
30
40
50
60
70
80
90


0
10
20
30
40
50
60
70
80
90
00


File # PW-43

0
10
20
30
40
50
60
70
80
90
100
FEET
File # FW-#

general testing corporation

water and wastewater testing specialists

AUTO ANALYZER ANALYSIS: Phenolics

#PWL-41

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR	Unless otherwise STATED mg/l elsewhere
1	.150 ppm STD				91.0				
2	BLANK				0.0				
3	.005	"			2.6				
4	.010	"			5.6				
5	.020	"			10.9				
6	.050	"			27.4				
7	.076	"			39.1				
8	.100	"			55.9				
9	.150	"			84.8				
10	BLANK				0.0				
11	.070	"			38.7		.070		
12		5C620	A		14.8		.027		.05
13		"	B		10.7		.020		.02
14		5C620	A		3.3		.006		.006
15		"	B		0.5		.001		<.005
16		"	C		2.5		.0046		<.005
17		"	D		1.0		.002		<.005
18		"	A duplicate		0.0		.001		
19		"	A Spike (1)		33.1		.059	dry wt.	
20	UBS-Dalton	5C205	G		3.5		.006	↓	.006 ✓
21	Phenol Check Sample EPA #6				21.0		.038		
22 *	UBS-Dalton	5C205	H	10.77g	2.0		.004	2.13 ✓	<.09 ug/g
23 *	"	"	I	10.36g	2.9		.005	2.15 ✓	<10.4 ug/g
24 *	"	"	J	10.60g	1.5		.003	2.12 ✓	<.09
25 *	"	"	K	1245g	6.6		.012	.33 ✓	.4 ug/g
26 *	"	"	L	12.12g	13.9		.025	.50 ✓	.41 ug/g
27 *	"	"	M	12.38g	1.9		.004	2.10 ✓	<.08 ug/g
28 *	"	"	N	10.12g	0.9		.002	2.12 ✓	<.10 ug/g
29 *	"	"	N duplicate		0.9		.002		
30 *	"	"	N Spike		28.9		.051		
31	Me-Tech	BLANK			1.0		.002		<.005
32	BLANK				0.0				
33	.070 ppm STD.				39.9		.072		
34 *		5C209	A	200 mls	3.4		.006		.006
35 *			B	200 mls	3.5		.006		.006
36 *			C	200 mls	7.5		.005		.005
37			D		8.6		.015		.015
38	BLANK				0.0		.001		
39	BLANK SPIKE (.020 ppm)				11.3		.0198		
40	Phenol CHECK Sample EPA #6				20.6		.036		

(1) 50 ul of 5ppm Intermediate Stock phenol Solution.

* Manual distillation, SEE distillation sheet for weights & volumes
All Samples distilled into 200 mls final volume.

general testing corporation

gtc

AUTO ANALYZER ANALYSIS: Phenolics

water and wastewater testing specialists

#PDL-41

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR	N mg/l
41		50208	B		3.0		.005		
2 *		50292		200 mls	40.0		.069	1:20	1.38
3 *		4349	C	200 mls	9.7		.017		.02
4		50740	B		6.2		.011		.01
5		50770	P		2.8		20496		<.005
6		"	P duplicate		2.7		.0048		
7		"	P Spike (1)		36.6		.062		
8		50725	A		1.9		.003		<.005
9		"	B		1.3		.002		<.005
10		"	C		4.1		.007		.007
11		"	D		1.8		.003		<.005
12		"	E		0.2		.0047		<.005
13		"	F		0.2		.0047		<.005
14	BLANK				0.0		.0753		
15	.070 ppm Std.				41.9		↓		
16		50725	G		1.0		.002		<.002
17	BLANK Spike (.020 ppm)				21.8 Peak				
18		50725	H		"				
19		50783	A		"		Samples to be repeated		
20		"	B		"				
21		50844	A		4.1		.007		.007
22		"	C		2.5		.004		<.005
23 *		50823		200 mls	16.2		.027		.03
24		"	duplicate		15.4		.026		
25		"	Spike (1)		42.4		.0708		
26		50844	B		4.2		.007		.007
27	BLANK Spike (.020 ppm)				8.7		.015		
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

ANALYST: S. GABEL DATE: 5/22/85

Cam Coq · 177

QUALITY CONTROL

S. GABEL 5/22/8[illegible]

PRECISION:

	High Level	Low Level
Warning Limit:		
Critical Limit:		

	First Value	Second Value	A-B	A+B	$\left(\frac{A-B}{A+B}\right)$	$\frac{A-B}{A}$ x 100
·680-D	<.005	<.005				
0705-N	<.005	<.005				
770-P	<.005	<.005				
·523	.026	.027				

SPIKED RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

	Sample Value	Spiked Value	Amount Added	Amount Recovery	% Recovery
680-D	<.005	.059	.0495	.059	118%
705-N	<.005	.051	.0495	.051	102%
BLK	0	.0198	.020	.0198	99.0%
"	0	.015	.020	.015	75.1%
0770-P	.005	.062	.0495	.057	113%
0823	.026	.071	.0495	.046	92.0%

EPA STANDARD RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

PACHECK #6

True Value	Analytical Value	% Recovery
.036	.038	106%
.036	.036	100%

general testing corporation

gtc

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

PHENOLICS DISTILLATION

DATE	JOB #	NAME	ORIGINAL VOLUME	FINAL VOLUME	DILUTION
~~5-19~~					
5-14-85	4344C	GSP	200 mls	200 mls	1
"	50708A	E+A	200 mls	"	1
"	" B		200 ~~200~~ mls	"	1
"	" C		200 mls	"	1
"	50782	WMI	200 mls	"	1
5-17-85	50823	WMI	200 ml	"	1

QC on 50708 B Insuff Sample

general testing corporation

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

PHENOLICE DISTILLATION

DATE	JOB #	NAME	ORIGINAL VOLUME	FINAL VOLUME	DILUTION FACTOR
8-85	50705 J	DALTON	10.60gm wet wt.	200 ml's	
	K		12.45gm "	"	
	M		12.38gm "	"	
	N		10.12gm "	"	
	O		10.32gm "	"	
9-85	50705 H	DALTON	10.77gm "	"	
	I		10.31gm "	"	20
	L		12.12gm "	"	19
					18
	50708 B	DUPLICATE EM	200	"	1
	50740 A	DUPLICATE	200	"	1

RESULTS FROM RAW DATA FILE PNL-41X.RAW

DATE 5-22-85 TIME 11:27

METHOD NAME - PHENOL SAMPLES/HR. = 20
SAMPLE/WASH RATIO = 2.000 SAMPLES/REFERENCE = 20

REF STANDARD CONC. = "A" .000 "B" .000 "C" .070 "D" .000
CHECK SAMPLE CONC. "A" .000 "B" .000 "C" .070 "D" .000

*** STANDARDS DATA ***

TRAY POS.	STD #	CHANNEL "A"	CHANNEL "B"	PHENOL	CHANNEL "
3	STD-1	.000	.000	2.600	.000
4	STD-2	.000	.000	5.600	.000
5	STD-3	.000	.000	10.900	.000
6	STD-4	.000	.000	27.400	.000
7	STD-5	.000	.000	39.100	.000
8	STD-6	.000	.000	55.900	.000
9	STD-7	.000	.000	84.800	.000

*** CHECK SAMPLE RAW RESULTS ***
CHECK SAMPLE I.D. NUMBER ------ .07

10	BLANK SMPL	.00000	.00000	.00000	.00000
11	CHECK SMPL	.00000	.00000	39.700	.00000

*** RAW DATA RESULTS ***

TRAY #	SMPL.#	CHANNEL "A"	CHANNEL "B"	PHENOL	CHANNEL "D"
12	12	.000	.000	14.8	.000
13	13	.000	.000	10.7	.000
14	14	.000	.000	3.50	.000
15	15	.000	.000	.500	.000
16	16	.000	.000	2.50	.000
17	17	.000	.000	1.00	.000
18	18	.000	.000	.000	.000
19	19	.000	.000	33.1	.000
20	20	.000	.000	3.30	.000
21	21	.000	.000	21.0	.000
22	22	.000	.000	2.00	.000
23	23	.000	.000	2.90	.000
24	24	.000	.000	1.50	.000
25	25	.000	.000	6.60	.000
26	26	.000	.000	13.9	.000

*** RAW DATA RESULTS ***

TRAY #	SMPL.#	CHANNEL "A"	CHANNEL "B"	PHENOL	CHANNEL "D
27	27	.000	.000	1.90	.000
28	28	.000	.000	.900	.000
29	29	.000	.000	.900	.000
30	30	.000	.000	28.9	.000
31	31	.000	.000	1.00	.000
32	Blank	.000	.000	.000	.000
33	Ref Std.	.000	.000	39.9	.000
34	34	.000	.000	3.40	.000
35	35	.000	.000	2.50	.000
36	36	.000	.000	2.50	.000
37	37	.000	.000	8.60	.000
38	38	.000	.000	.000	.000
39	39	.000	.000	11.5	.000
40	40	.000	.000	20.4	.000
41	41	.000	.000	3.00	.000
42	42	.000	.000	40.0	.000
43	43	.000	.000	9.70	.000
44	44	.000	.000	6.20	.000
45	45	.000	.000	2.80	.000
46	46	.000	.000	2.70	.000
47	47	.000	.000	34.6	.000
48	48	.000	.000	1.90	.000
49	49	.000	.000	1.30	.000
50	50	.000	.000	4.10	.000
51	51	.000	.000	1.80	.000
52	52	.000	.000	.200	.000
53	53	.000	.000	.200	.000
54	Blank	.000	.000	.000	.000
55	Ref Std.	.000	.000	41.9	.000
56	56	.000	.000	1.00	.000
57	57	.000	.000	4.10	.000
58	58	.000	.000	2.30	.000
59	59	.000	.000	16.2	.000
60	60	.000	.000	15.4	.000
61	61	.000	.000	02.4	.000
62	62	.000	.000	4.20	.000
63	63	.000	.000	3.70	.000
64	Blank	.000	.000	.000	.000
65	Ref Std.	.000	.000	41.9	.000

RESULTS FROM REPORT FILE PNI-4.RPT

DATE 5-22-05 TIME 11:27

METHOD NAME - PHENOL SAMPLES/HR. - 20
SAMPLE/WASH RATIO - 2.000 SAMPLES/REFERENCE - 20

REF STANDARD CONC. - "A" .000 "B" .000 "C" .070 "D" .000
CHECK SAMPLE CONC. - "A" .000 "B" .000 "C" .070 "D" .000

*** STANDARDS DATA ***

TRAY POS.	STD #	CHANNEL "A"	CHANNEL "B"	PHENOL	CHANNEL "
3	STD-1	-1.000	-1.000	.005	-1.000
4	STD-2	-1.000	-1.000	.010	-1.000
5	STD-3	-1.000	1.000	.020	-1.000
6	STD-4	-1.000	-1.000	.050	-1.000
7	STD-5	-1.000	-1.000	.070	-1.000
8	STD-6	-1.000	-1.000	.100	-1.000
9	STD-7	-1.000	-1.000	.150	-1.000

*** CHECK SAMPLE RESULTS ***
CHECK SAMPLE I.D. NUMBER ----- .07

11	CHECK SMPL	.000	.000	.070	.000

*** CALIBRATION CURVES APPLIED ***

CHANNEL "A" Y = .23016E-04 X^2 .57453E-01 X + .46802E-01

CHANNEL "B" Y = .00000 X^2 .00000 X + .00000

PHENOL Y = -.64965E-06 X^2 .18221E-02 X + .13329E-03

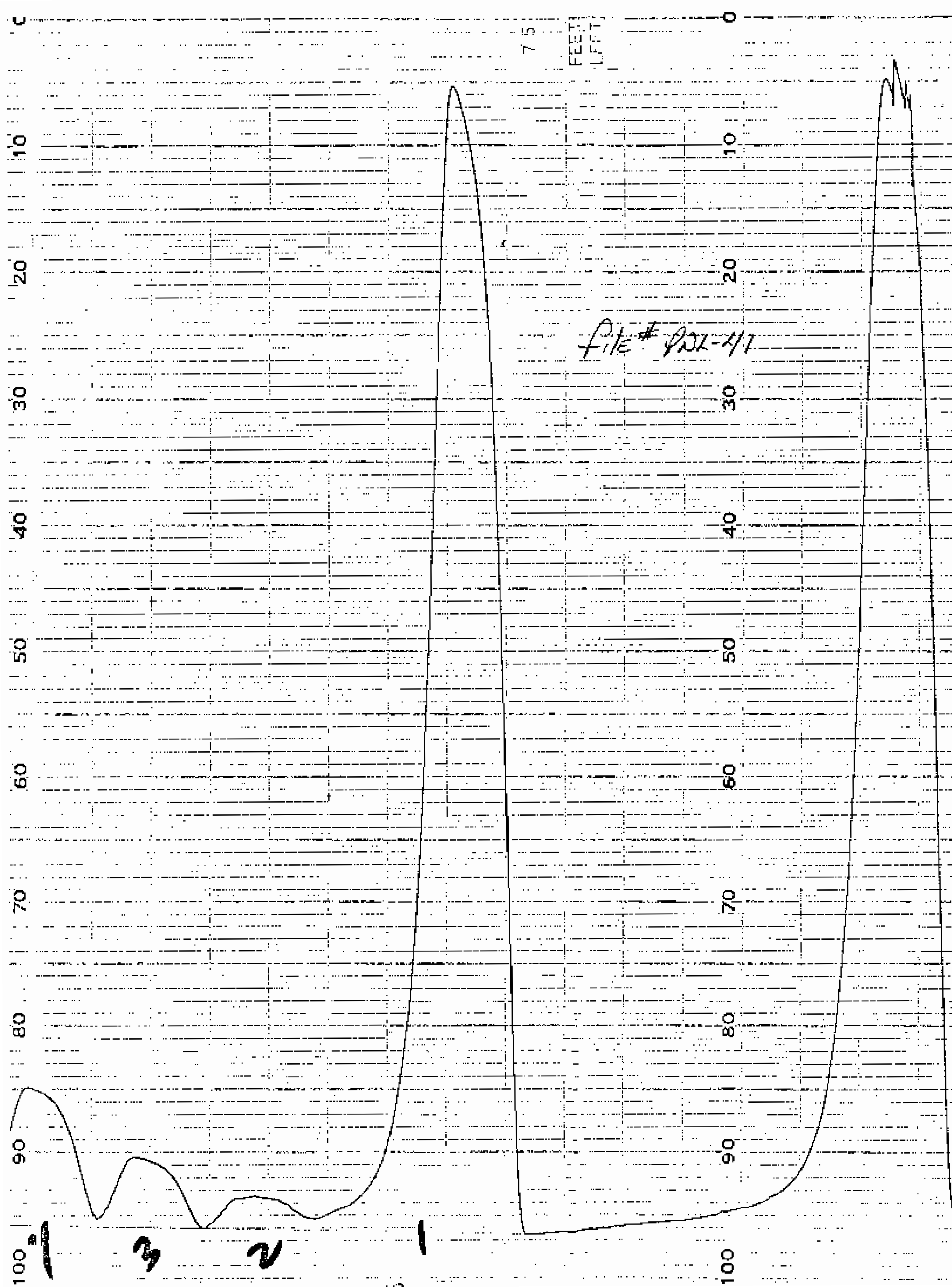
CHANNEL "D" Y = .00000 X^2 .00000 X + .00000

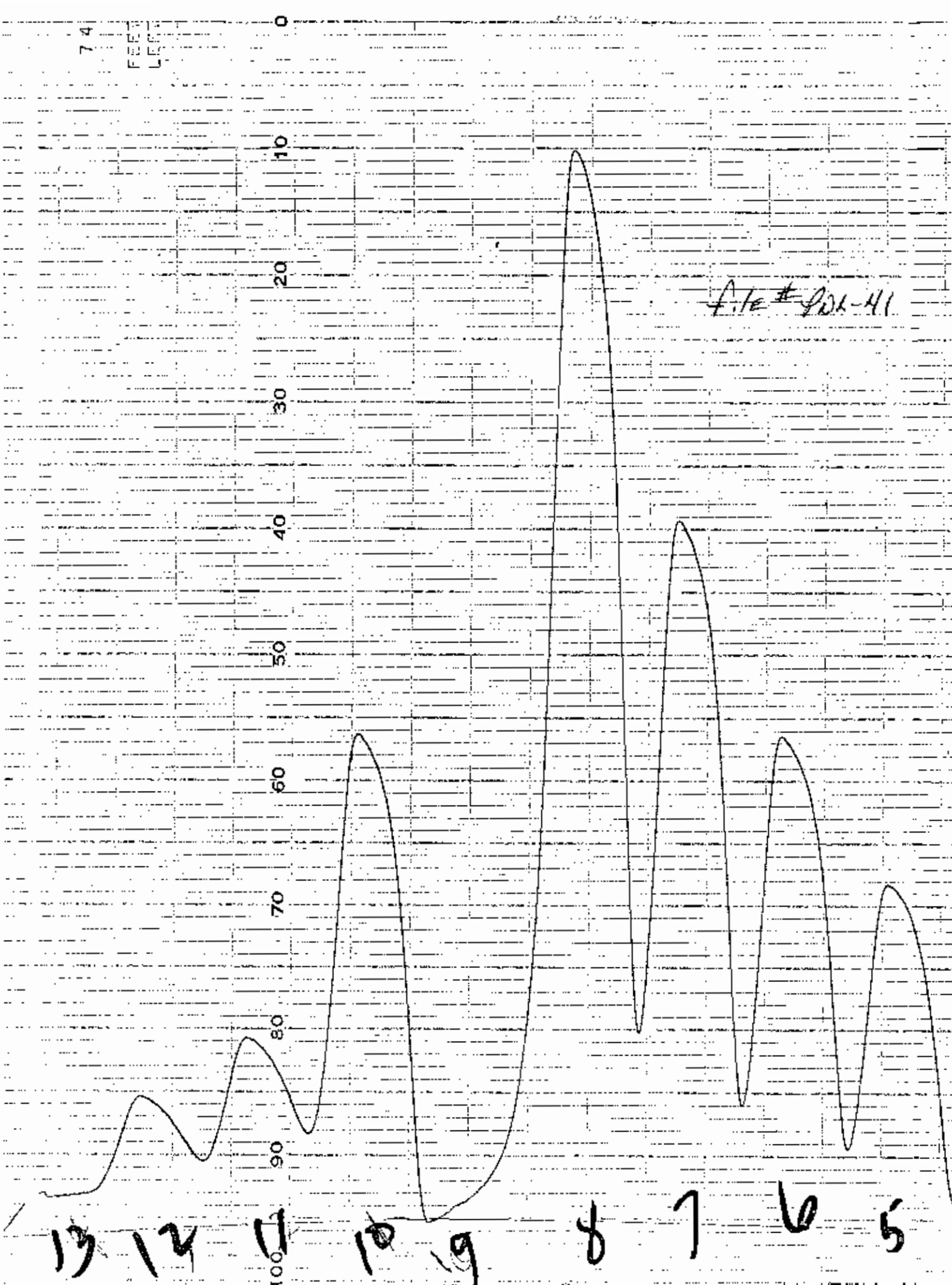
*** ANALYTICAL RESULTS ***

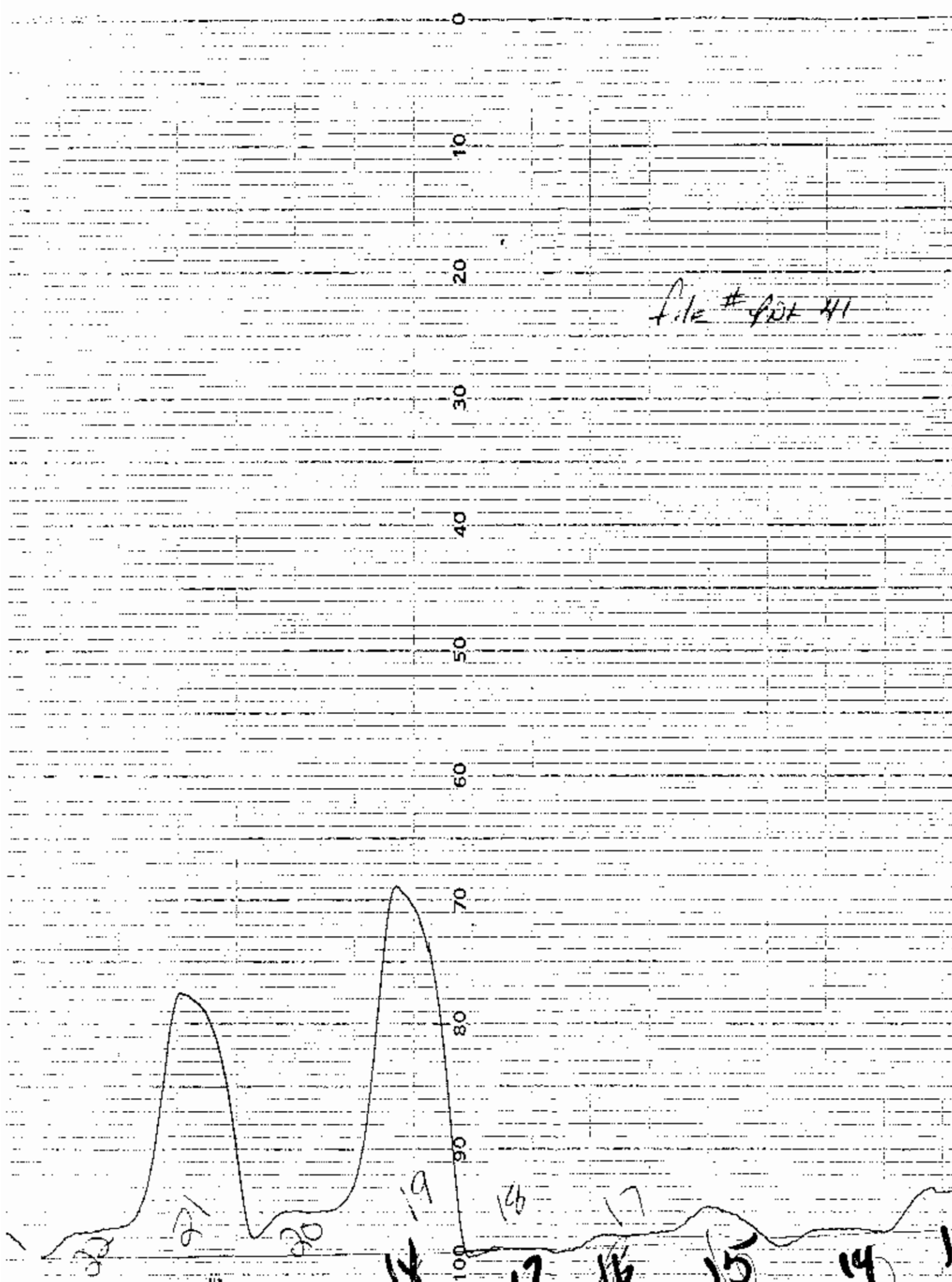
TRAY	SMPL. #	CHANNEL "A"	% Drift	CHANNEL "B"	% Drift	PHENOL	% Drift	CHANNEL "C"	% Dri
12	12	.468E-01	.000	.249E-01	.000				
13	13	.468E-01	.000	.195E-01	.000				
14	14	.465E-01	.000	.618E-02	.000				
15	15	.468E-01	.000	.104E-02	.000				
16	16	.468E-01	.000	.466E-02	.000				
17	17	.468E-01	.000	.194E-02	.000				
18	18	.465E-01	.000	.133E-03	.000				
19	19	.468E-01	.000	.597E-01	.000				
20	20	.468E-01	.000	.643E-02	.000				
21	21	.468E-01	.000	.376E-01	.000				

*** ANALYTICAL RESULTS ***

TRAY	SMPL #	CHANNEL "A"	% Drift	CHANNEL "B"	% Drift	PHENOL	% Drift	CHANNEL "D"	% Dri
21	22	.468E-01		.000		.373E-02		.000	
23	23	.468E-01		.000		.533E-02		.000	
24	24	.468E-01		.000		.262E-02		.000	
25	25	.468E-01		.000		.119E-01		.000	
26	26	.468E-01		.000		.249E-01		.000	
27	27	.468E-01		.000		.353E-02		.000	
28	28	.468E-01		.000		.171E-02		.000	
29	29	.468E-01		.000		.174E-02		.000	
30	30	.468E-01		.000		.511E-01		.000	
31	31	.468E-01		.000		.191E-02		.000	
33	Ref Std.	.468E-01	.0	.000	.0	.718E-01	2.6	.000	
34	34	.468E-01		.000		.615E-02		.000	
35	35	.468E-01		.000		.631E-02		.000	
36	36	.468E-01		.000		.454E-02		.000	
37	37	.468E-01		.000		.152E-01		.000	
38	38	.468E-01		.000		.133E-03		.000	
39	39	.468E-01		.000		.198E-01		.000	
40	40	.468E-01		.000		.359E-01		.000	
41	41	.468E-01		.000		.536E-02		.000	
42	42	.468E-01		.000		.627E-01		.000	
43	43	.468E-01		.000		.169E-01		.000	
44	44	.468E-01		.000		.108E-01		.000	
45	45	.468E-01		.000		.496E-02		.000	
46	46	.468E-01		.000		.478E-02		.000	
47	47	.468E-01		.000		.627E-01		.000	
48	48	.468E-01		.000		.335E-01		.000	
49	49	.468E-01		.000		.236E-02		.000	
50	50	.468E-01		.000		.712E-02		.000	
51	51	.468E-01		.000		.320E-02		.000	
52	52	.468E-01		.000		.473E-03		.000	
53	53	.468E-01		.000		.472E-03		.000	
55	Ref Std.	.468E-01	.0	.000	.0	.753E-01	7.6	.000	
56	56	.468E-01		.000		.182E-02		.000	
57	57	.468E-01		.000		.706E-02		.000	
58	58	.468E-01		.000		.436E-02		.000	
59	59	.468E-01		.000		.274E-01		.000	
60	60	.468E-01		.000		.260E-01		.000	
61	61	.468E-01		.000		.708E-01		.000	
62	62	.468E-01		.000		.727E-02		.000	
63	63	.468E-01		.000		.148E-01		.000	
65	Ref Std.	.468E-01	.0	.000	.0	.753E-01	7.6	.000	


file #


FEET
0
10
20
30
40
50
60
70
80
90
100
File # LDL-41
13 12 11 10 9 8 7 6 5

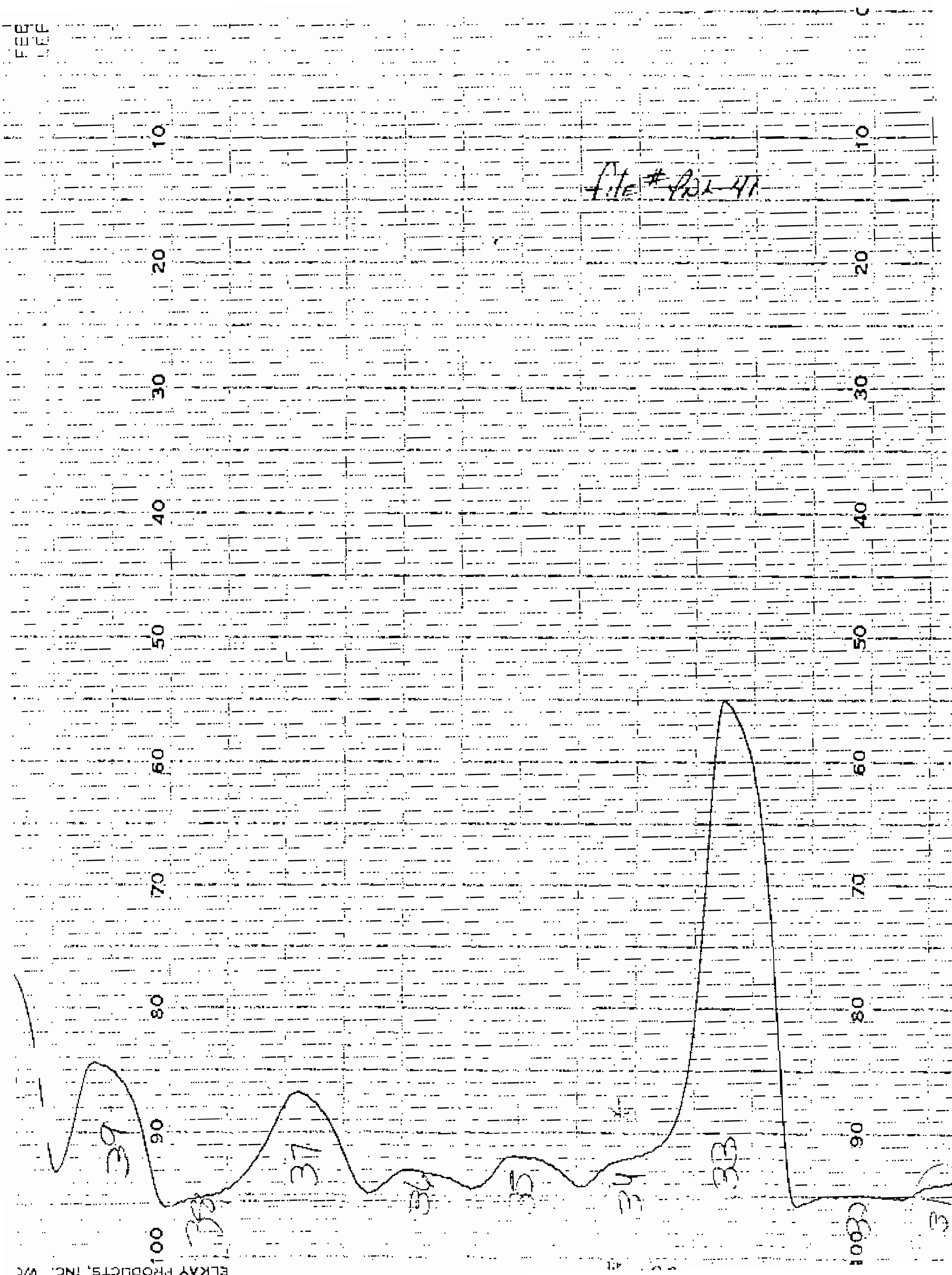

0
10
20
30
40
50
60
70
80
90
100
file # 601 41
22
21
20
19
16
17
15
14

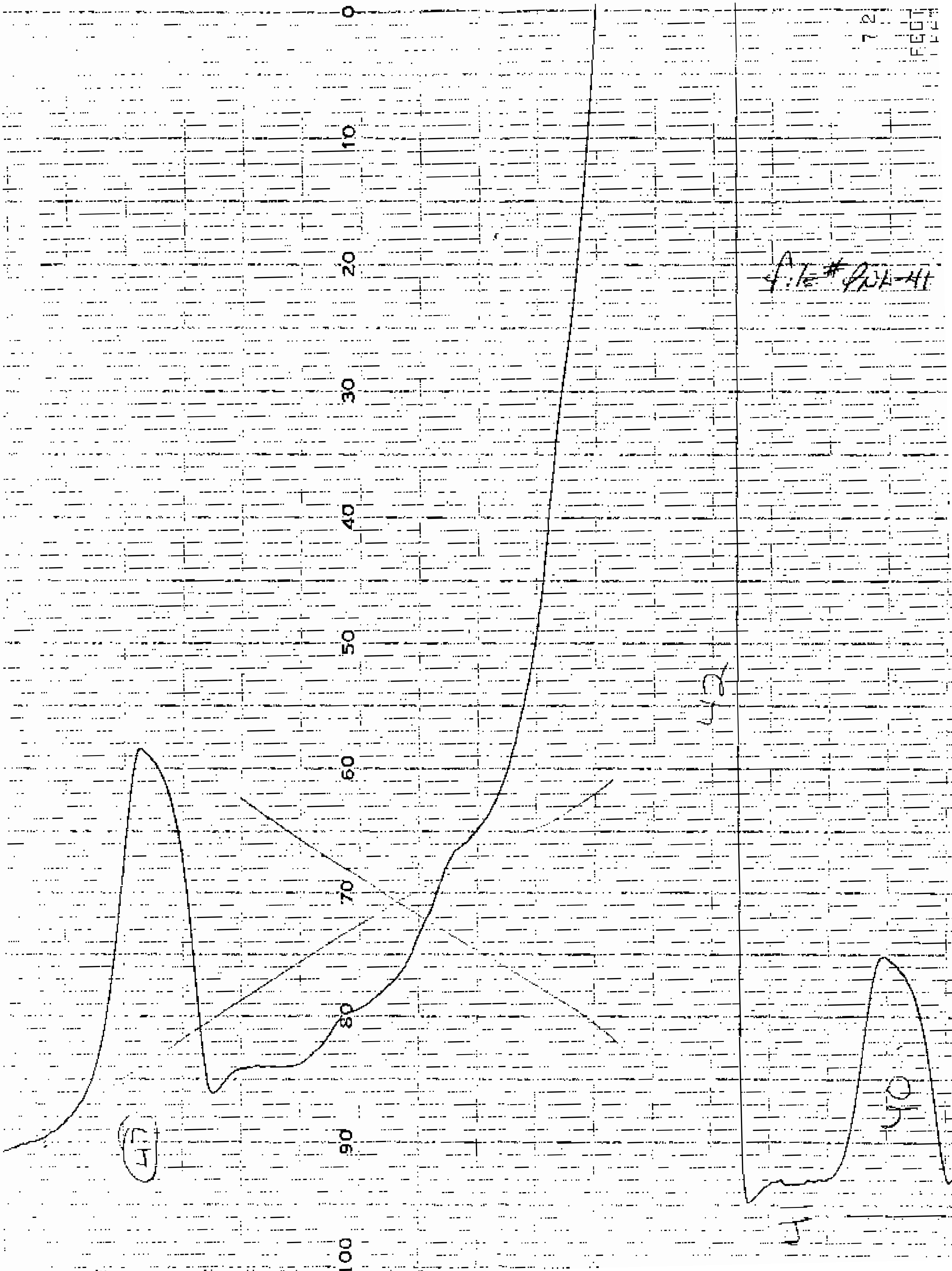
File # PWL-41

10
20
30
40
50
60
70
80
90
100

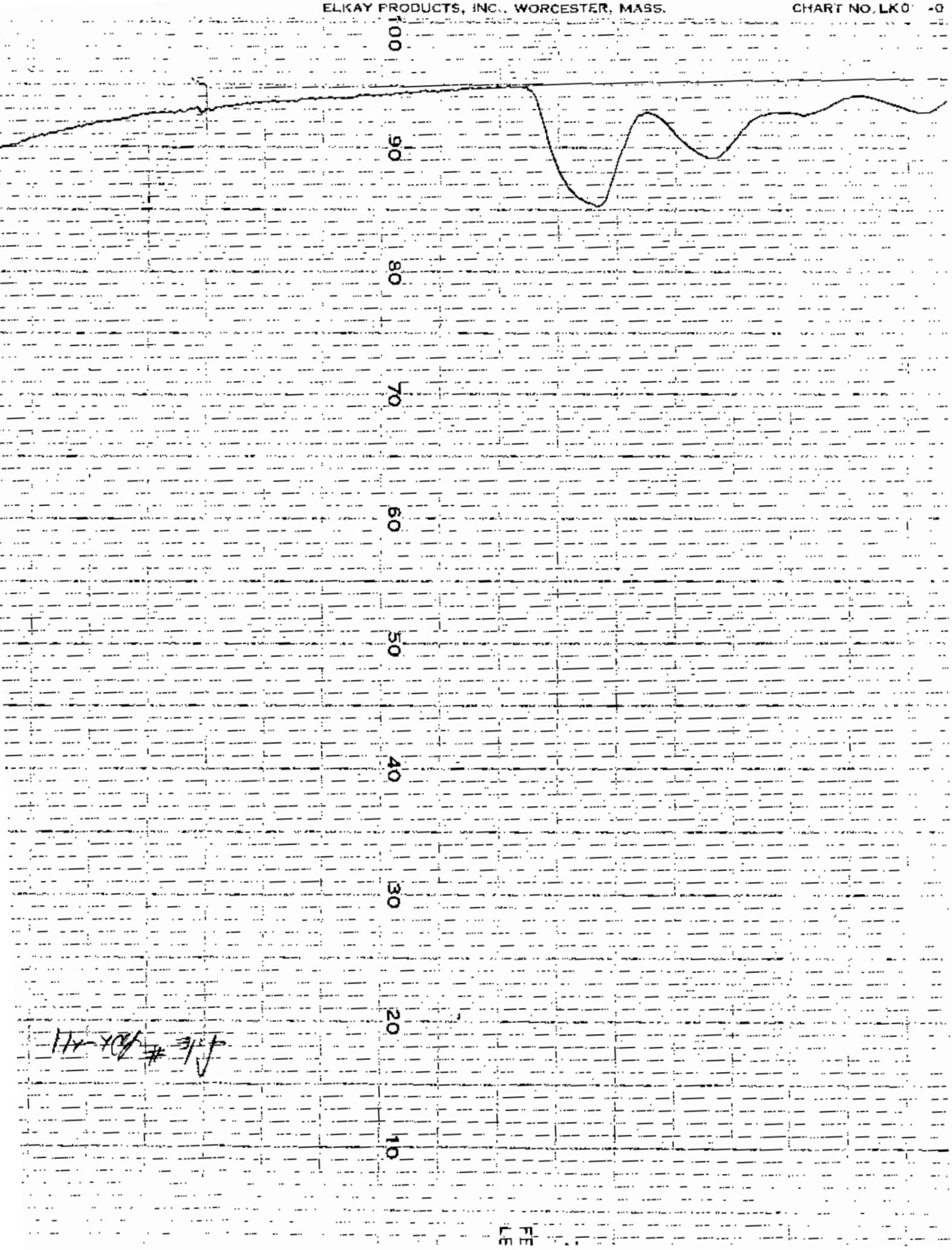
30
29
28
27
26
25
24
23
22

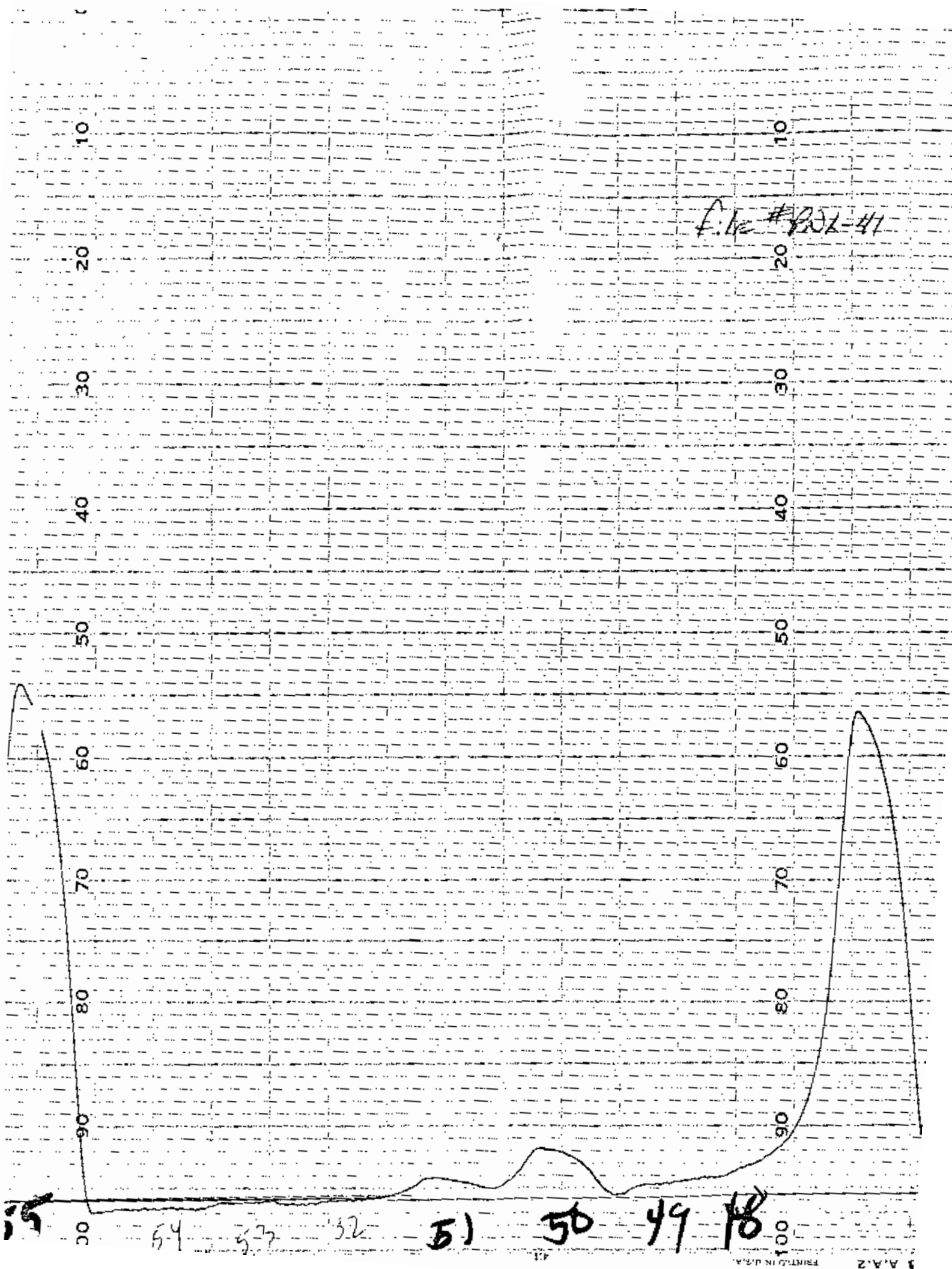
ELKAY PRODUCTS, INC., WORCESTER, MASS.
CHART NO. LK011-0

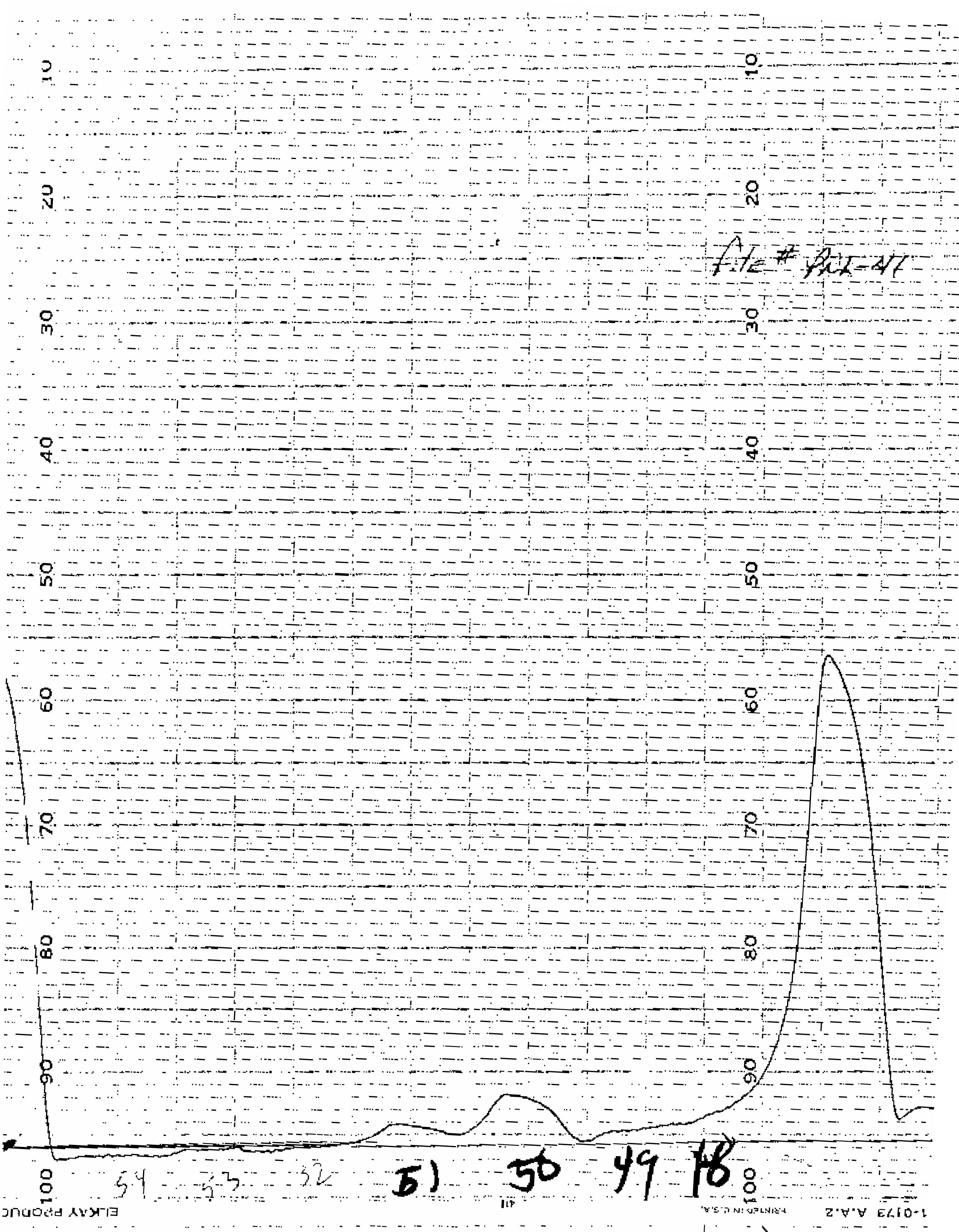

File #
10
20
30
40
50
60
70
80
90
100

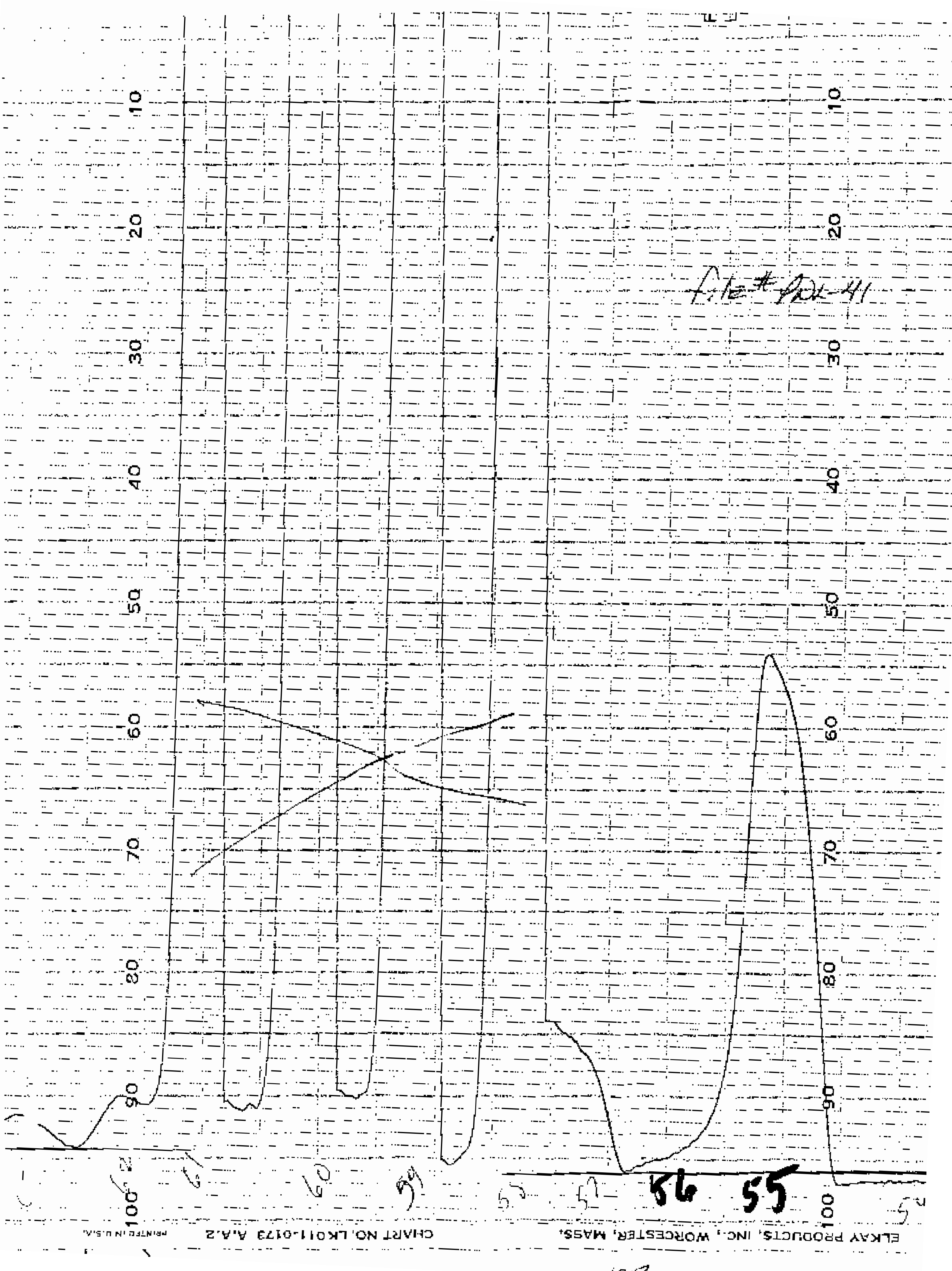

0
10
20
30
40
50
60
70
80
90
100

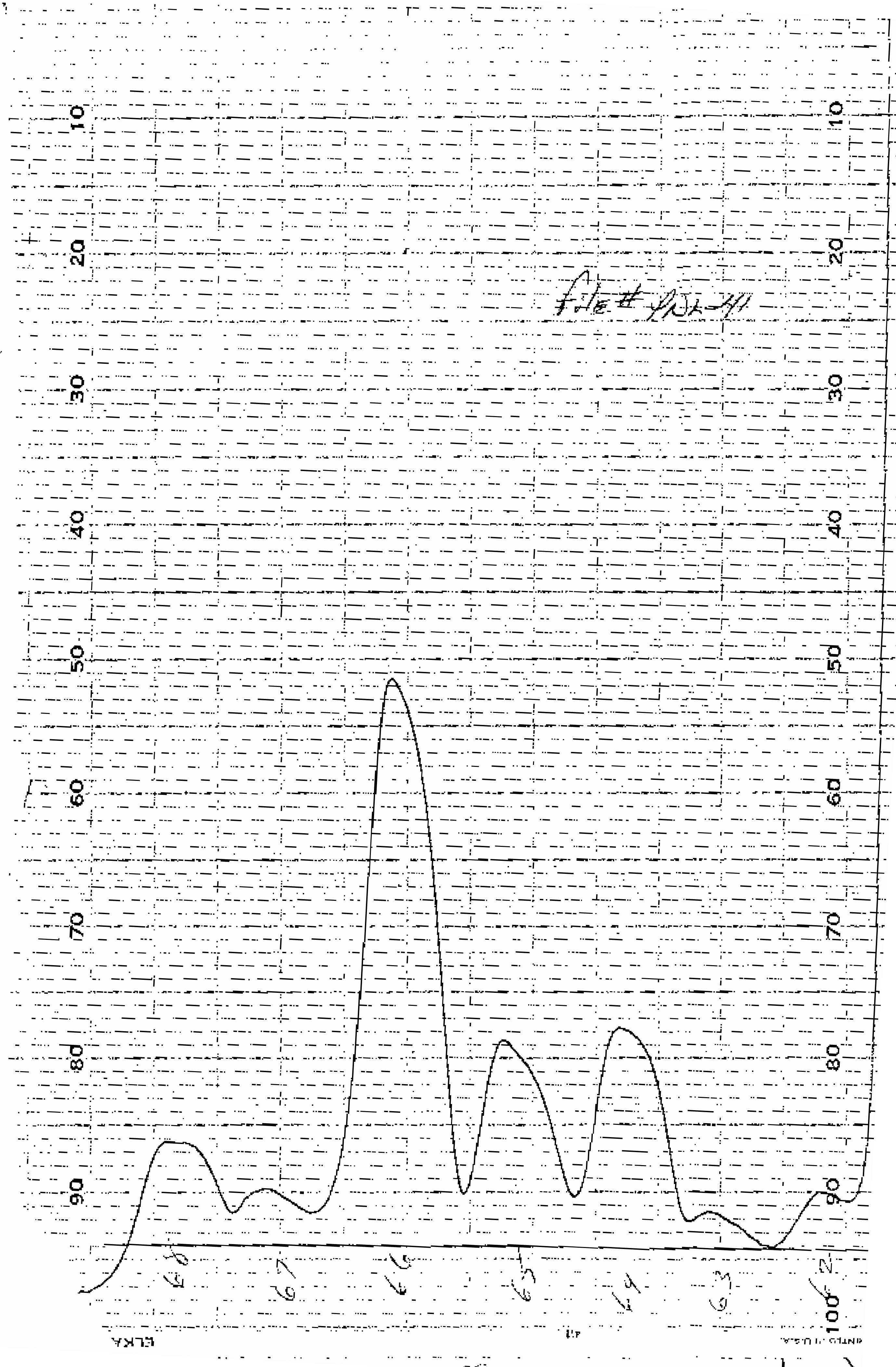
ELKAY PRODUCTS, INC., WORCESTER, MASS. CHART NO. LK0 -0




File #202-41
10
20
30
40
50
60
70
80
90
100
64
57
52
51
50
49
48


10
20
30
40
50
60
70
80
90
100
54
53
52
51
50
49
48
ELKAY PRODUC
PRINTED IN U.S.A.


10
20
30
40
50
60
70
80
90
100
file #
56
55
ELKAY PRODUCTS, INC., WORCESTER, MASS.
CHART NO. LK011-0173 A.A.2
PRINTED IN U.S.A.


10
20
30
40
50
60
70
80
90
100
68
67
66
65
64
63
62

SECTION II
SUBPART D-6

RAW DATA FOR:

ORTHO-PHOSPHATE

GTS 5/2/85

general testing corporation

gtc

AUTO ANALYZER ANALYSIS: [illegible]

water and wastewater testing specialists

oPO4-4

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR	N mg/l
1	2.0 ppm								
2	Blank								
3	.05 ppm	Std							
4	.10 ppm	"							
5	.20 ppm	Eliminated							
6	.50 ppm	"							
7	.70 ppm	"							
8	1.00 ppm	"							
9	1.50 ppm	Eliminated							
10	2.00 ppm	Eliminated							
11	Blank								
12	N-4 (.33							(94.6%)	.331
13	N-3 (.05							(100%)	.050
14	Dalton	30703	A						<.05 ✓
15	↓	↓	B						<.05 ✓
16			C						.14 ✓
17			D						.05 ✓
18			E						.14 ✓
19			F					(.093)	.09 ✓
20	Dalton	(Dup)	F					(.089)	[illegible]
21	SPK	.20ppm +	F	(10 mls Sample + 20ul 100ppm Stock)				(.272)	
22	Blank spk	(.20 ppm)		"	"	"	"	(.200)	
23	Blank								
24	1.0 ppm								
25									

From the desk of

A .0190 g

Ave = .0191

B .0192 g

weight of water delivered from pipetter set at 20 ul

M. Sheanan 5/2/85

CK 5/2/85

100

#OPCN-4

PRECISION:

	High Level	Low Level
Warning Limit:		
Critical Limit:		

First Value	Second Value	A-B	A+B	$(\frac{A-B}{A+B})$	$\frac{A-B}{A} \times 100$
305-F .093	.089	.004	.182		4.39

SPIKED RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

Sample Value	Spiked Value	Amount Added	Amount Recovery	% Recovery
0705F .091	.272	.191	.181	94.8%
JK 4.05	4.25	4.00	4.00	100%

EPA STANDARD RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

True Value	Analytical Value	% Recovery
N-4 .35	.331	94.6%
I-3 .05	.05	100%

130

RESULTS FROM RAW DATA FILE OP04-4X.RAW

DATE 5- 2-85 TIME 12: 2

METHOD NAME - OP04 SAMPLES/HR. - 30
SAMPLE/WASH RATIO - 1.000 SAMPLES/REFERENCE - 10

REF STANDARD CONC. -	"A"	.000	"B"	1.000	"C"	.000	"D" .000
CHECK SAMPLE CONC. -	"A"	.000	"B"	.350	"C"	.000	"D" .000

*** STANDARDS DATA ***

TRAY POS.	STD #	CHANNEL "A"	OP04	CHANNEL "C"	CHANNEL "D
3	STD-1	.000	2.821	.000	.000
4	STD-2	.000	6.353	.000	.000
5	STD-3	.000	11.820	.000	.000
6	STD-4	.000	34.941	.000	.000
7	STD-5	.000	48.156	.000	.000
8	STD-6	.000	64.552	.000	.000
9	STD-7	.000	84.376	.000	.000
10	STD-8	.000	96.887	.000	.000

*** CHECK SAMPLE RAW RESULTS ***
CHECK SAMPLE I.D. NUMBER ---- EPA#N-4

11	BLANK SMPL	100.00	.80841	100.00	100.00
12	CHECK SMPL	.00000	24.279	.00000	.00000

*** RAW DATA RESULTS ***

TRAY #	SMPL.#	CHANNEL "A"	OP04	CHANNEL "C"	CHANNEL "D
13	EPA#N-3	.000	3.19	.000	.000
14	50705-A	.000	.526	.000	.000
15	50705-B	.000	.496	.000	.000
16	50705-C	.000	10.1	.000	.000
17	50705-D	.000	3.29	.000	.000
18	50705-E	.000	10.3	.000	.000
19	50705-F	.000	6.67	.000	.000
20	705-FDL*	.000	6.35	.000	.000
21	705-FSPK	.000	20.3	.000	.000
22	BLK-SPK	.000	14.9	.000	.000
23	Blank	.100E+03	.111	.100E+03	.100E+03
24	Ref Std.	.000	65.5	.000	.000

RESULTS FROM REPORT FILE OP04-4X.RPT

DATE 5- 2-85 TIME 12: 2

METHOD NAME - OP04 SAMPLES/HR. - 30
SAMPLE/WASH RATIO - 1.000 SAMPLES/REFERENCE - 10

REF STANDARD CONC. -	"A"	.000	"B"	1.000	"C"	.000	"D" .000
CHECK SAMPLE CONC. -	"A"	.000	"B"	.350	"C"	.000	"D" .000

*** STANDARDS DATA ***

TRAY POS.	STD #	CHANNEL "A"	OP04	CHANNEL "C"	CHANNEL "L
3	STD-1	-1.000	.050	-1.000	-1.000
4	STD-2	-1.000	.100	-1.000	-1.000
5	STD-3	-1.000	.200	-1.000	-1.000
6	STD-4	-1.000	.500	-1.000	-1.000
7	STD-5	-1.000	.700	-1.000	-1.000
8	STD-6	-1.000	1.000	-1.000	-1.000
9	STD-7	-1.000	1.500	-1.000	-1.000
10	STD-8	-1.000	2.000	-1.000	-1.000

*** CHECK SAMPLE RESULTS ***
CHECK SAMPLE I.D. NUMBER ---- EPA#N-4

12	CHECK SMPL	.000	.351	.000	.000

*** CALIBRATION CURVES APPLIED ***

CHANNEL "A"	Y =	.00000	X^2	.00000	X + .00000
OP04	Y =	.47769E-04	X^2	.12C59E-01	X + .18917E-01
CHANNEL "C"	Y =	.00000	X^2	.00000	X + .00000
CHANNEL "D"	Y =	.00000	X^2	.00000	X + .00000

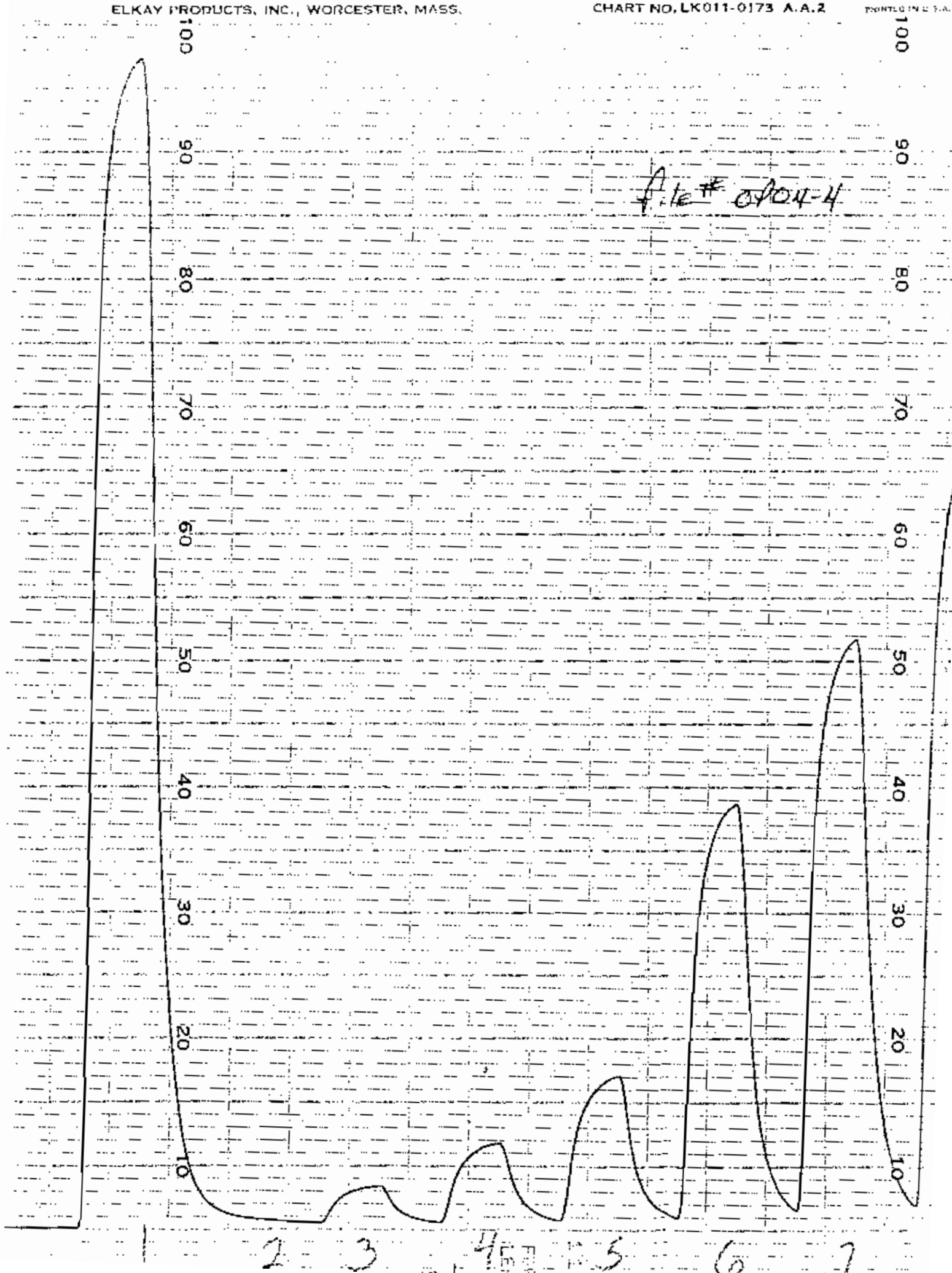
*** ANALYTICAL RESULTS ***

TRAY	SMPL.#	CHANNEL "A" % Drift	OP04 % Drift	CHANNEL "C" % Drift	CHANNEL "D" % Dr
13	EPA#N-3	.000	.502E-01	.000	.000
14	50705-A	.000	.179E-01	.000	.000
15	50705-B	.000	.176E-01	.000	.000
16	50705-C	.000	.137	.000	.000
17	50705-D	.000	.514E-01	.000	.000
18	50705-E	.000	.140	.000	.000
19	50705-F	.000	.932E-01	.000	.000
20	705-FDUP	.000	.891E-01	.000	.000
21	705-FSPK	.000	.272	.000	.000
			.200	.000	.000

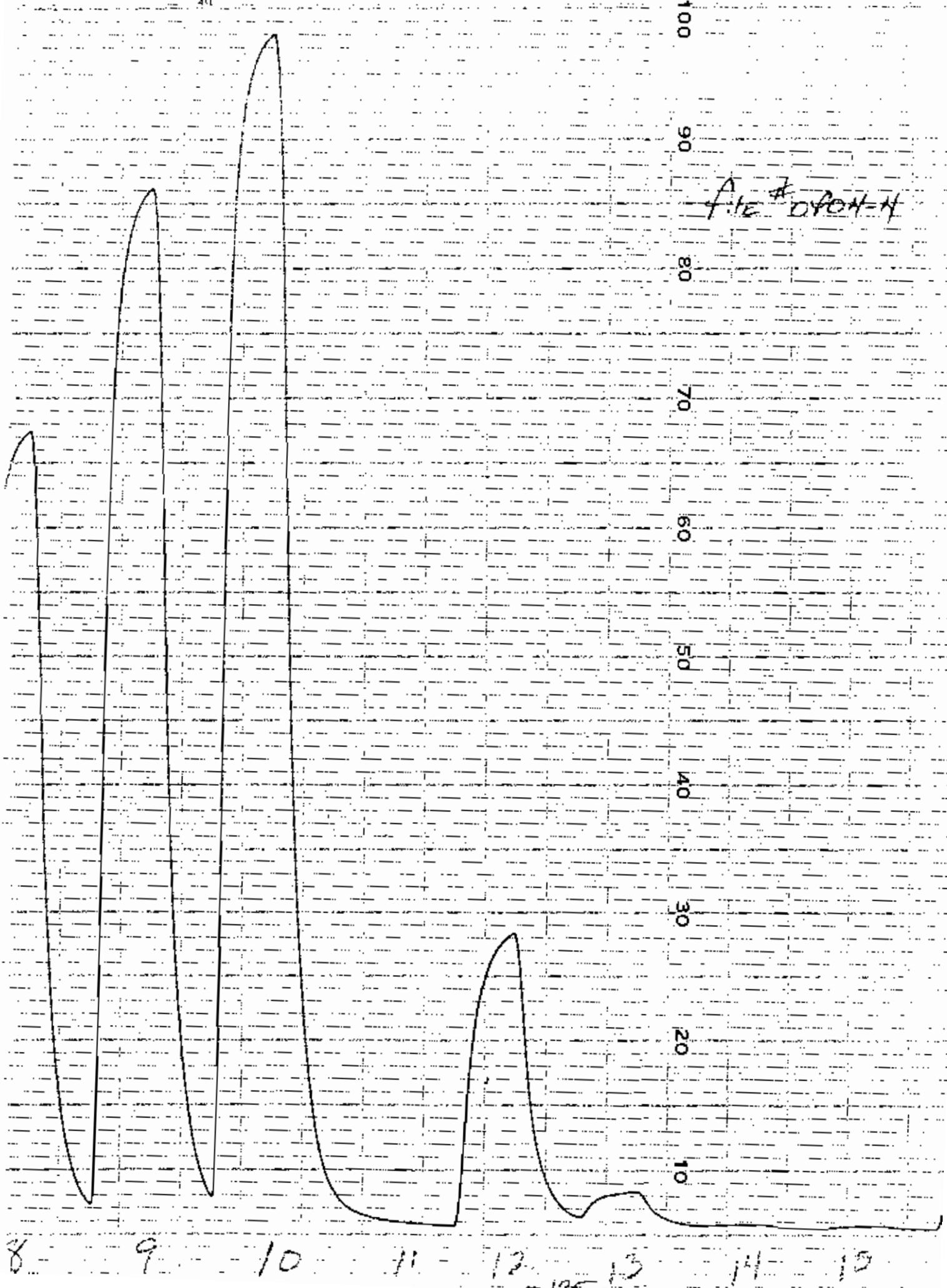
*** ANALYTICAL RESULTS ***

TRAY	SMPL.#	CHANNEL "A"	% Drift	DP04	% Drift	CHANNEL "C"	% Drift	CHANNEL "D"	% Drift
24	Ref Std.	.000	.0	1.01	1.1	.000	.0	.000	

File # 0404-4

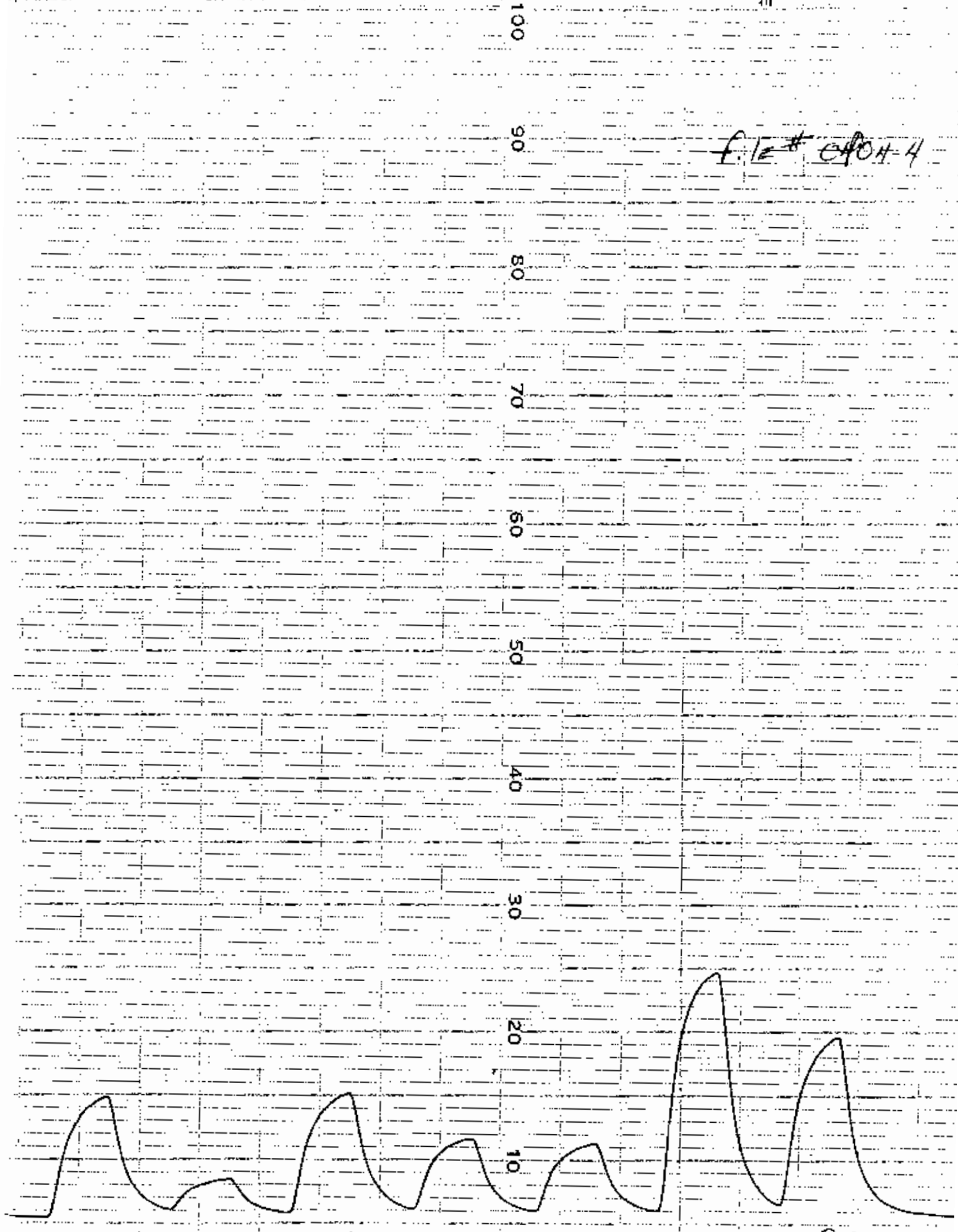


ELKAY PRODUCTS, INC., WORCESTER, MASS.



MAS 5. CHART NO. LK011-0173 A.A.2 PRINTED IN U.S.A.

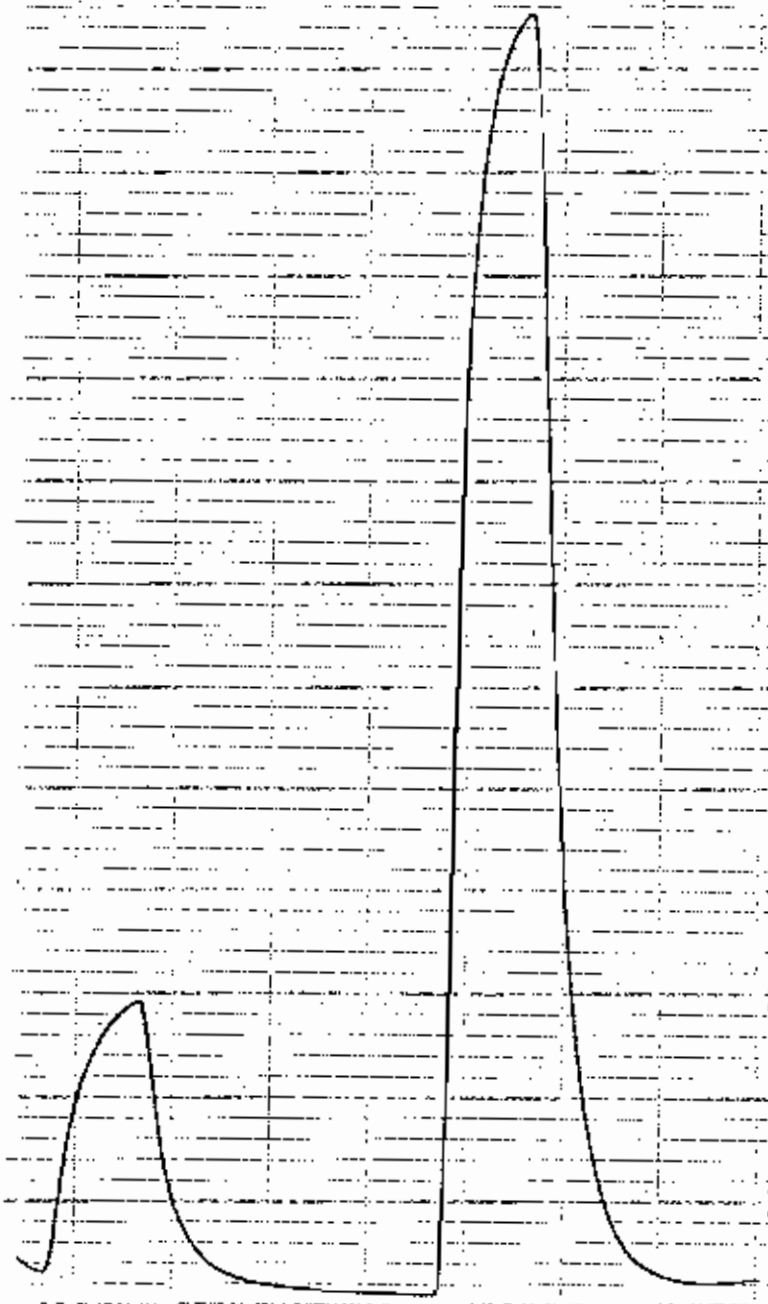
File # 6404-4



ELKAY PRODUCTS, INC., WORCESTER, MASS.

100
90
80
70
60
50
40
30
20
10

file # 0900-4



22 23 24

general testing corporation

gtc

AUTO ANALYZER ANALYSIS: OPO4

water and wastewater testing specialists

#0P04-5

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR	N mg/l
1	2.0								
2	Blank				6.0				
3	.05				8.6				
4	.10				11.7				
5	.20 ← Deleted				17.9				
6	.50				38.3				
7	.70				50.1				
8	1.0				65.9				
9	1.5				86.5				
10	2.0 ← Deleted				97.7				
11	Blank				6.2				
12	~~W-f~~ } wrong epa's				~~38.1~~				
13	~~W-T~~				~~13.7~~				
14		50205	6		10.1			.073	.07 ✓
15			6 Dup		9.8			.0695	
16		20	6 spk (.20 ppm)		22.5		.165	.236	
17	H2O Blank				6.0			<.05	
18	Blank-spk (.20 ppm)				19.6			.195	
19	Blank				6.0				
20	1.0				66.0			1.02	
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

Analyst: Scott Gabel

DATE: 5/6/84

QUALITY CONTROL

#0804-3

PRECISION:

	High Level	Low Level
Warning Limit:		
Critical Limit:		

First Value	Second Value	A-B	A+B	$(\frac{A-B}{A+B})$	$\frac{A-B}{A} \times 100$
C 1705-0 .073	.070	.0030	.0715		4.2%

SPIKED RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

Sample Value	Spiked Value	Amount Added	Amount Recovery	% Recovery
blank 0	.195	.20	.195	97.5%
1705-6 .072	.236	.20	.164	82.0%

EPA STANDARD RECOVERY:

wrong EPA's used

	UCL	UWL	LCL	LWL
High Level				
Low Level				

True Value	Analytical Value	% Recovery
Std #6 1.00	1.02	102%

RESULTS FROM RAW DATA FILE OP04-5X.RAW

DATE 4-15-93 TIME 13:32

METHOD NAME -- OP04 SAMPLES/HR. = 30
SAMPLE/WASH RATIO = 1.000 SAMPLES/REFERENCE = 10

REF STANDARD CONC. -- "A" .000 "B" 1.000 "C" .000 "D" .000
CHECK SAMPLE CONC. = "A" .000 "B" .350 "C" .000 "D" .000

*** STANDARDS DATA ***

TRAY POS.	STD #	CHANNEL "A"	OP04	CHANNEL "C"	CHANNEL "D"
3	STD-1	.000	2.600	.000	.000
4	STD-2	.000	5.700	.000	.000
5	STD-3	.000	11.900	.000	.000
6	STD-4	.000	32.300	.000	.000
7	STD-5	.000	44.100	.000	.000
8	STD-6	.000	59.900	.000	.000
9	STD-7	.000	80.500	.000	.000
10	STD-8	.000	91.700	.000	.000

*** CHECK SAMPLE RAW RESULTS ***
CHECK SAMPLE I.D. NUMBER -- -- N-S

11	BLANK SMPL	.00000	6.2000	.00000	.00000
12	CHECK SMPL	.00000	36.100	.00000	.00000

*** RAW DATA RESULTS ***

TRAY #	SMPL.#	CHANNEL "A"	OP04	CHANNEL "C"	CHANNEL "D"
13	13	.000	.000	.000	.000
14	14	.000	10.1	.000	.000
15	15	.000	9.80	.000	.000
16	16	.000	22.5	.000	.000
17	17	.000	6.00	.000	.000
18	18	.000	19.6	.000	.000
19	Blank	.000	6.00	.000	.000
20	Ref Std.	.000	55.0	.000	.000

RESULTS FROM REPORT FILE OP04-SX.RPT

DATE 4-15-93 TIME 13:32

METHOD NAME - OP04 SAMPLES/HR. = 30
SAMPLE/WASH RATIO = 1.000 SAMPLES/REFERENCE = 10

REF STANDARD CONC. - "A" .000 "B" 1.000 "C" .000 "D" .000
CHECK SAMPLE CONC. - "A" .000 "B" .350 "C" .000 "D" .000

*** STANDARDS DATA ***

TRAY POS.	STD #	CHANNEL "A"	OP04	CHANNEL "C"	CHANNEL "D"
3	STD-1	-1.000	.050	-1.000	-1.000
4	STD-2	-1.000	.100	-1.000	-1.000
5	STD-3	-1.000	.200	-1.000	-1.000
6	STD-4	-1.000	.500	-1.000	-1.000
7	STD-5	-1.000	.700	-1.000	-1.000
8	STD-6	-1.000	1.000	-1.000	-1.000
9	STD-7	-1.000	1.500	-1.000	-1.000
10	STD-8	-1.000	2.000	-1.000	-1.000

*** CHECK SAMPLE RESULTS ***
CHECK SAMPLE I.D. NUMBER ----- N-8

12	CHECK SMPL	.000	.481	.000	.000

*** CALIBRATION CURVES APPLIED ***

CHANNEL "A" Y = .23016E-04 X^2 .57453E-01 X + .46802E-01

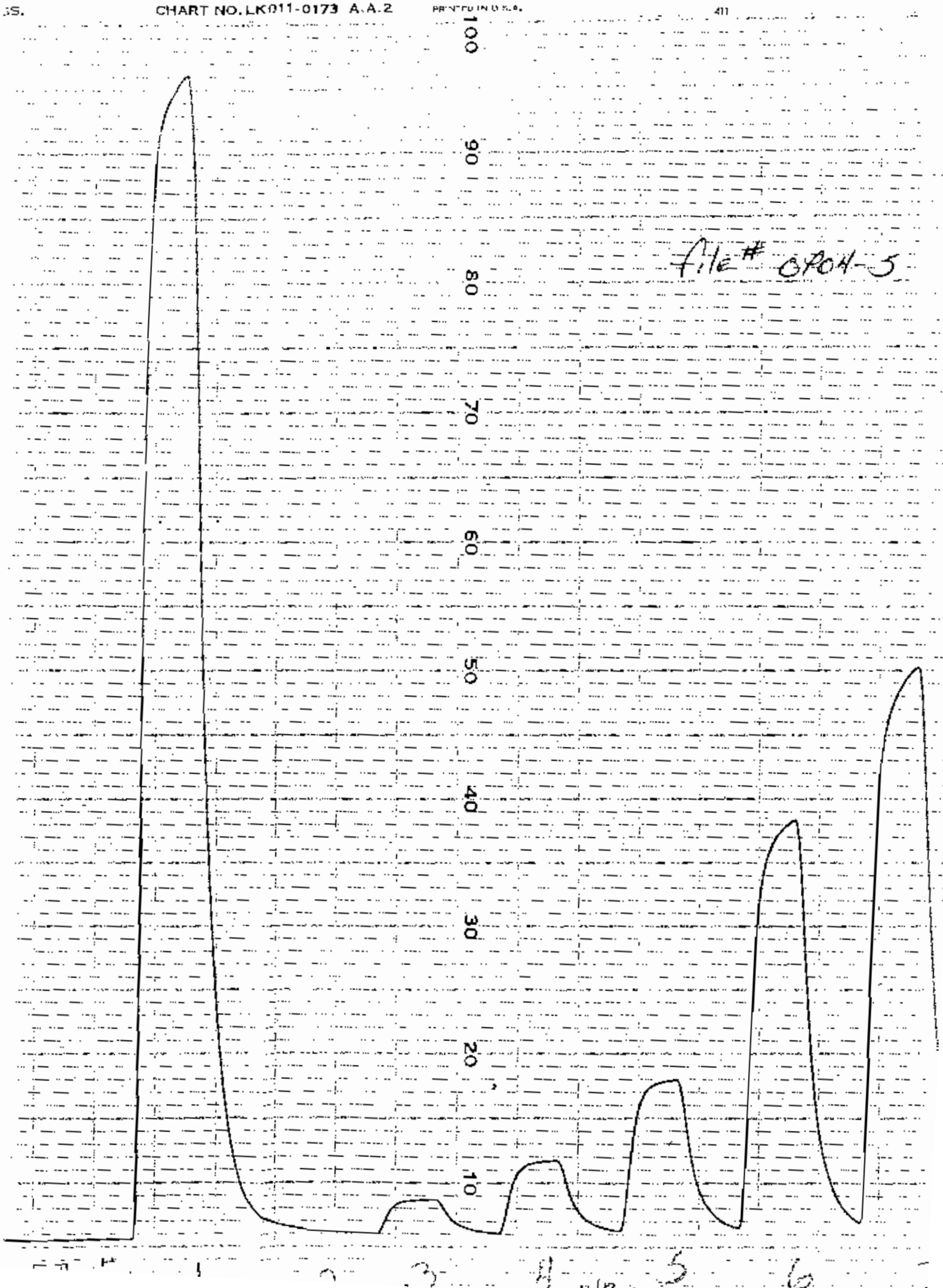
OP04 Y = .81671E-04 X^2 .11638E-01 X + .26780E-01

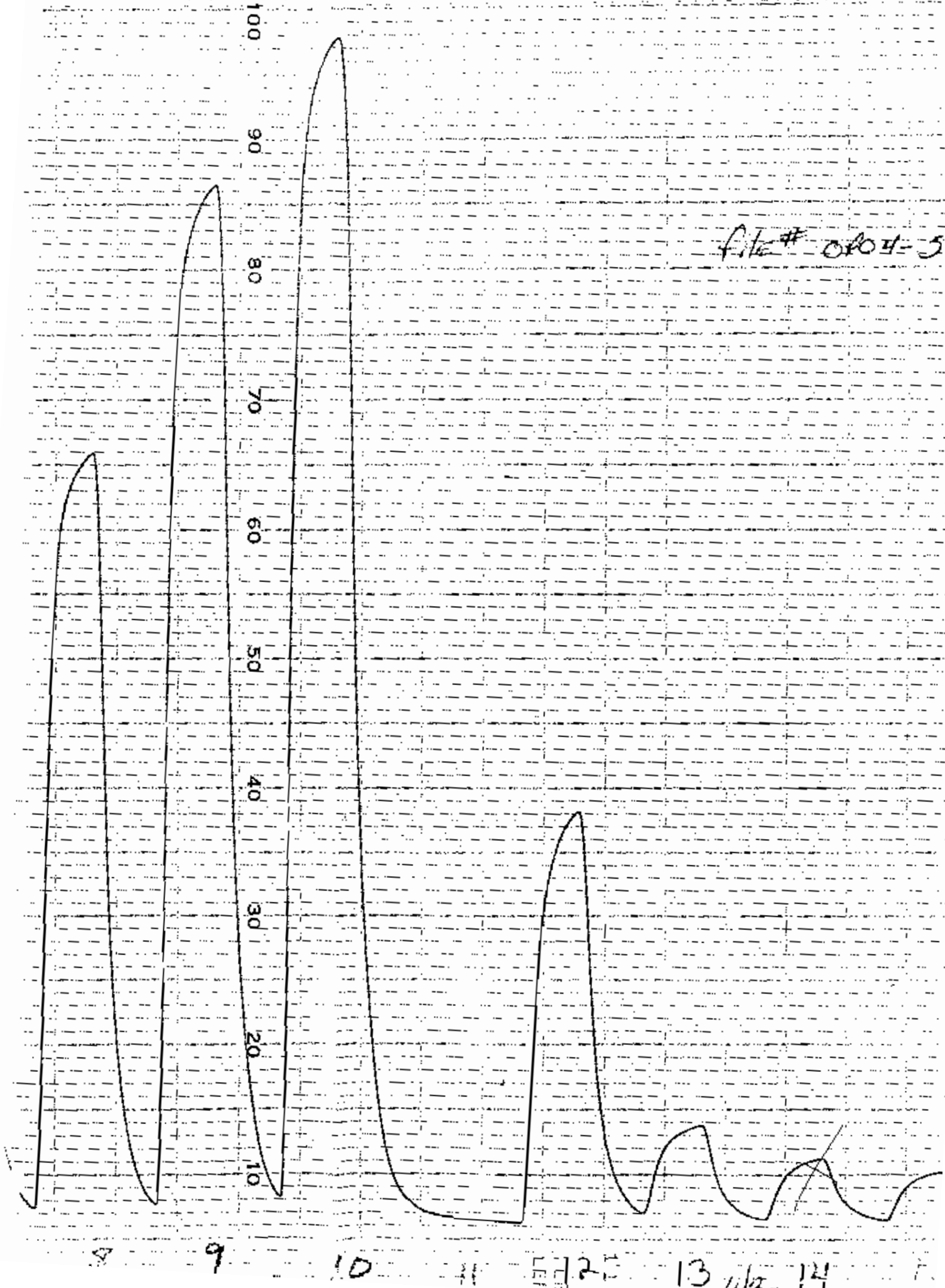
CHANNEL "C" Y = -.64963E-06 X^2 .18221E-02 X + .13329E-03

CHANNEL "D" Y = .00000 X^2 .00000 X + .00000

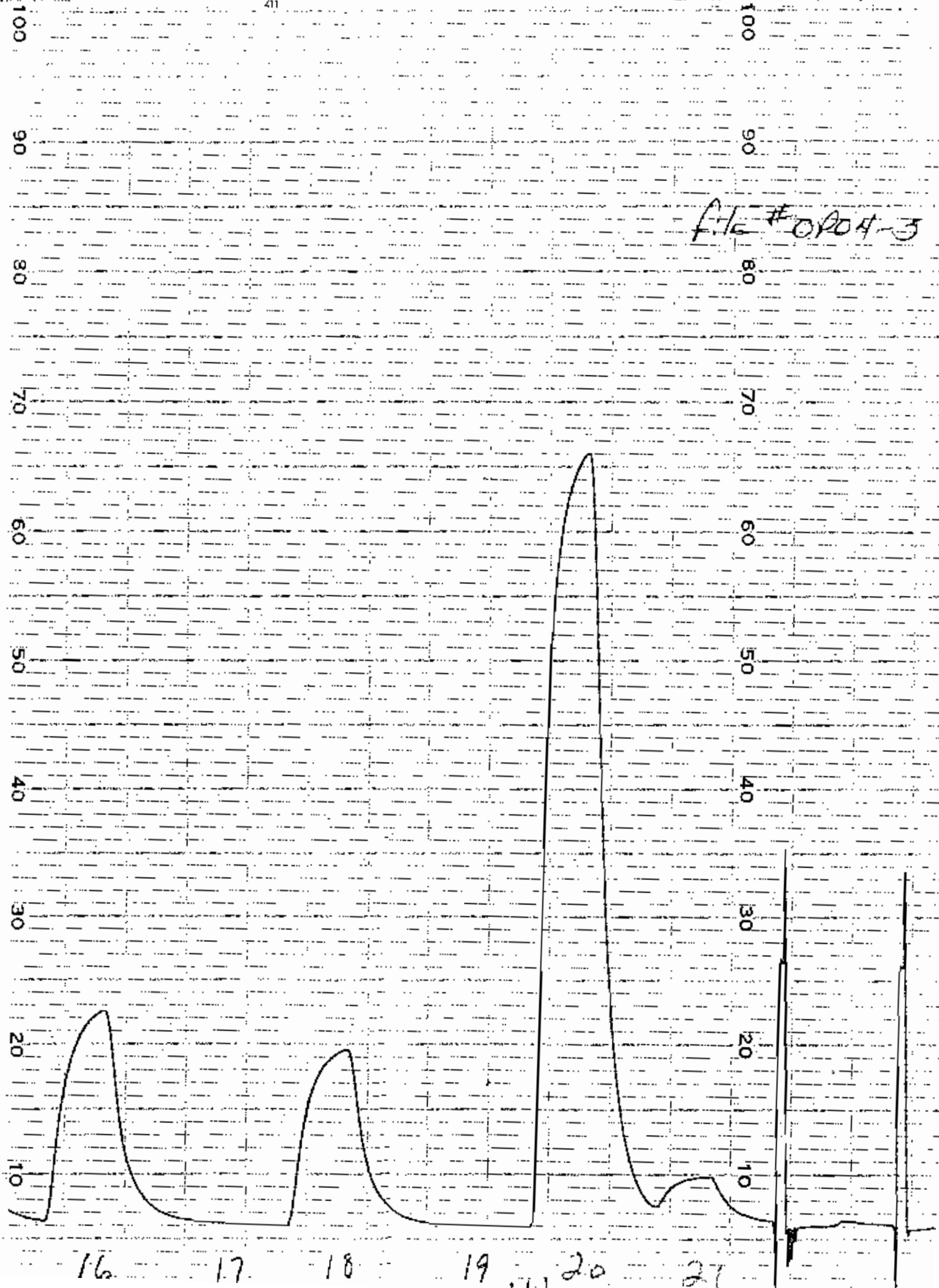
*** ANALYTICAL RESULTS ***

TRAY	SMPL.#	CHANNEL "A"	% Drift	OP04	% Drift	CHANNEL "C"	% Drift	CHANNEL "D"	% Dr
13	13	.468E-01		-.421E-01		.133E-03		.000	
14	14	.468E-01		.732E-01		.133E-03		.000	
15	15	.468E-01		.695E-01		.133E-03		.000	
16	16	.468E-01		.236		.133E-03		.000	
17	17	.468E-01		.245E-01		.133E-03		.000	
18	18	.468E-01		.195		.133E-03		.000	
20	Ref Std.	.468E-01	.0	1.02	1.5	.133E-03	.0	.000	


100
90
80
70
60
50
40
30
20
10
File # 6R04-5


100
90
80
70
60
50
40
30
20
10
file # 0804-5
9
10
11
12
13
14

File # 0204-3



PRIMARY STANDARDS

ANALYSIS: Ortho-Phosphate

STANDARD USED: _____

ANALYST	DATE	WEIGHT	VOLUME DILUTED	PRESERVATIVE
KB	1/25/85	0.4393g KH_2PO_4	1 liter	none
KB	3/15/85	0.4393g KH_2PO_4	1 liter	none
KR				

SECTION II

SUBPART D-7

RAW DATA FOR:

TOTAL PHOSPHOROUS

general testing corporation

g t c

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3780

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

AUTO ANALYZER ANALYSIS: Phosphorus

TP-33

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR	N mg/l
1	2.0	ppm Std.							
2	BLANK	"			10.0				
3	.05	"			10.5				
4	.10	"			12.7				
5	.20	"			17.0				
6	.50	" ← Deleted			32.0	delete			
7	.70	"			37.8				
8	1.00	"			52.7				
9	1.50	"			79.5				
10	2.00	"			102				
11	BLANK				10.7				
12	Nutrient #8	EPA Check	Sample	"	41.9				.744
13	" #7	"	"	"	14.5				.135
14		50684	A		20.5				.29
15		"	B		26.8				.47
16		50687			over				
17	URS-Dalton	50705	A		11.4		.063	10	.65
18	"	"	B		8.2		<.050	10	< .50
19	"	"	C		over	→ System Shut Down			
20	"	"	D						
21	"	"	E						
22	"	"	F						
23	Method BLANK								
24	BLANK Spike (for TKN's)								
25	Nutrient #7	EPA Check	Sample						
26	URS-Dalton	50705	G						
27	"	"	G Duplicate						
28	"	"	G Spike (for TKN's)						
29	"	"	G Spike (1)						
30		50758	A						
31		50759	A						
32		50789	A						
33	BLANK								
34	1.0 ppm	Std.							
35		50789	B						
36	Nutrient #7	EPA Check	Sample						
37		50759	A Duplicate						
38		50759	A Spike (1)						
39	BLANK								
40	1.0 ppm	Std.							

(1) 20 ul 100 ppm Adenosine Monophosphate To 10 mls SA

Date Digested: 5/13/85 Date Analyzed: 5/1

RESULTS FROM RAW DATA FILE TP-37XX.RAW

DATE 6- 7-85 TIME 11:36

METHOD NAME - TP04 SAMPLES/HR. = 30
SAMPLE/WASH RATIO - 1.000 SAMPLES/REFERENCE = 20

REF STANDARD CONC. =	"A"	1.000	"B"	.000	"C"	.000	"D"	.000
CHECK SAMPLE CONC. =	"A"	1.370	"B"	.000	"C"	.000	"D"	.000

*** STANDARDS DATA ***

TRAY POS.	STD #	TP04	CHANNEL "B"	CHANNEL "C"	CHANNEL "D
3	STD-1	.500	.000	.000	.000
4	STD-2	2.700	.000	.000	.000
5	STD-3	7.000	.000	.000	.000
6	STD-4	40.000	.000	.000	.000
7	STD-5	27.800	.000	.000	.000
8	STD-6	42.700	.000	.000	.000
9	STD-7	69.500	.000	.000	.000
10	STD-8	92.000	.000	.000	.000

*** CHECK SAMPLE RAW RESULTS ***
CHECK SAMPLE I.D. NUMBER ----- N-8

11	BLANK SMPL	10.700	.00000	.00000	.00000
12	CHECK SMPL	41.900	.00000	.00000	.00000

*** RAW DATA RESULTS ***

TRAY #	SMPL.#	TP04	CHANNEL "B"	CHANNEL "C"	CHANNEL "I
13	13	14.5	.000	.000	.000
14	14	20.6	.000	.000	.000
15	15	26.3	.000	.000	.000
16	16	.000	.000	.000	.000
17	17	11.4	.000	.000	.000
18	18	8.20	.000	.000	.000
19	19	.000	.000	.000	.000
20	Blank	10.7	.000	.000	.000
21	Ref Std.	37.9	.000	.000	.000

RESULTS FROM REPORT FILE TP-32??.RPT

DATE 6- 7-05 TIME 11:36

METHOD NAME - TP04 SAMPLES/HR. - 30
SAMPLE/WASH RATIO - 1.000 SAMPLES/REFERENCE - 20

REF STANDARD CONC. -	"A"	1.000	"B"	.000	"C"	.000	"D" .000
CHECK SAMPLE CONC. -	"A"	1.370	"B"	.000	"C"	.000	"D" .000

*** STANDARDS DATA ***

TRAY POS.	STD #	TP04	CHANNEL "B"	CHANNEL "C"	CHANNEL "D"
3	STD-1	.050	-1.000	-1.000	-1.000
4	STD-2	.100	-1.000	-1.000	-1.000
5	STD-3	.200	-1.000	-1.000	-1.000
6	STD-4	.500	-1.000	-1.000	-1.000
7	STD-5	.700	-1.000	-1.000	-1.000
8	STD-6	1.000	-1.000	-1.000	-1.000
9	STD-7	1.500	-1.000	-1.000	-1.000
10	STD-8	2.000	-1.000	-1.000	-1.000

*** CHECK SAMPLE RESULTS ***
CHECK SAMPLE I.D. NUMBER ----- N-8

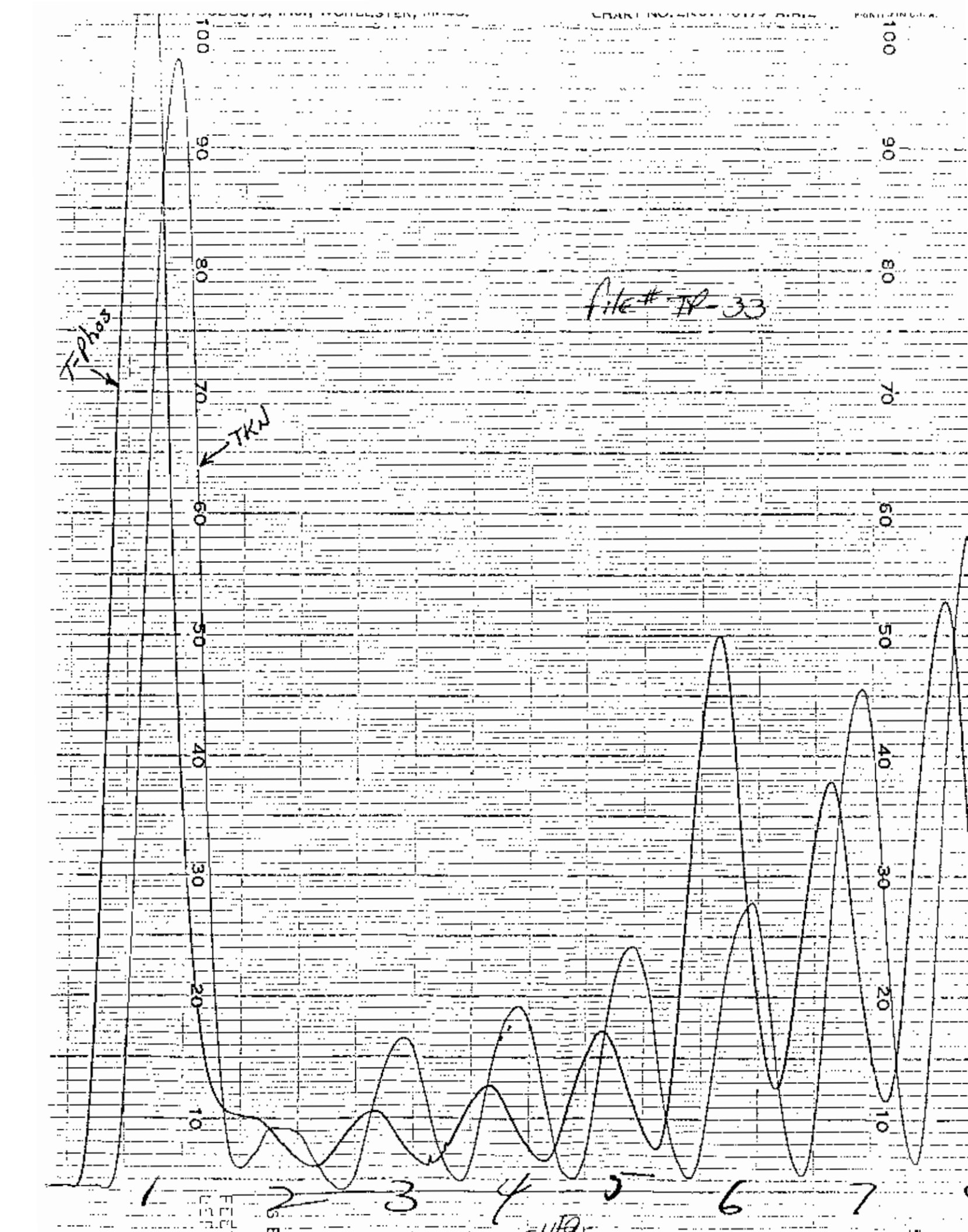
12	CHECK SMPL	.744	.000	.000	.000

*** CALIBRATION CURVES APPLIED ***

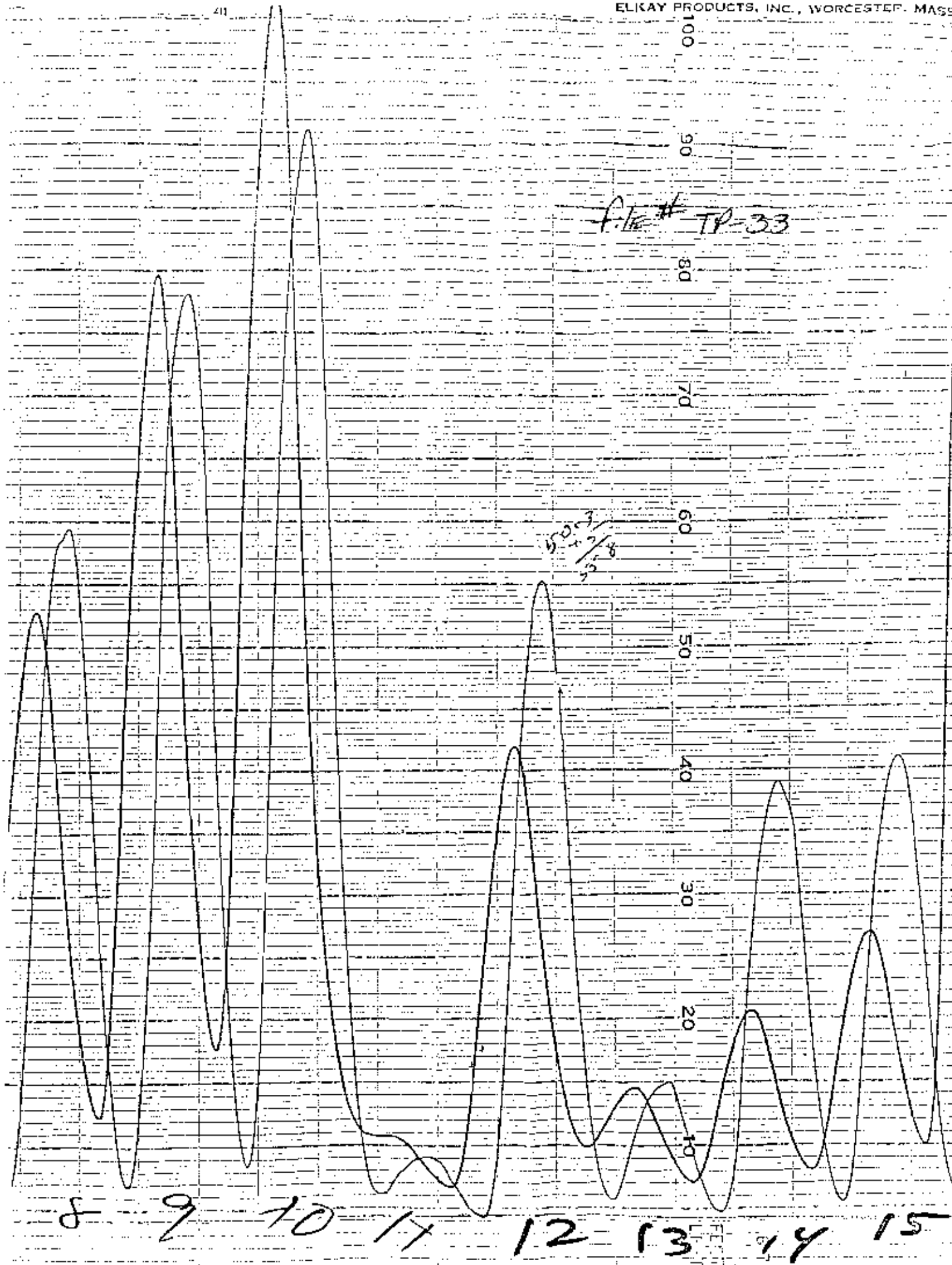
TP04	Y = -.27295E-04	X^2	.23194E-01	X + .42616E-01
CHANNEL "B"	Y = .61671E-04	X^2	.11638E-01	X + .26780E-01
CHANNEL "C"	Y = -.64965E-06	X^2	.10271E-02	X + .13329E-03
CHANNEL "D"	Y = .00000	X^2	.00000	X + .00000

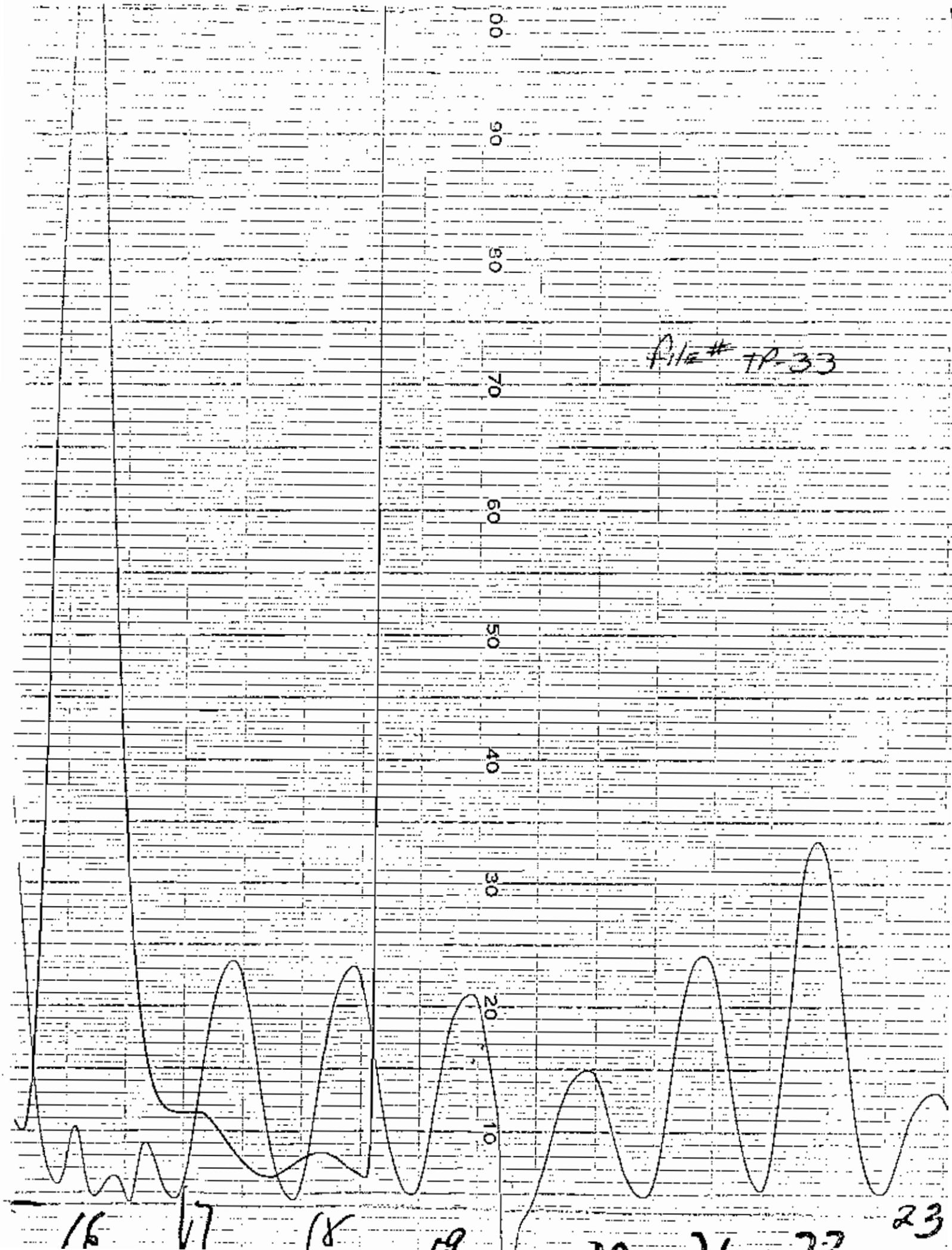
*** ANALYTICAL RESULTS ***

TRAY	SMPL.#	TP04	% Diff	CHANNEL "B"	% Drift	CHANNEL "C"	% Drift	CHANNEL "D"	% Drift
13	13	.135		.268E-01		.133E-03		.000	
14	14	.291		.268E-01		.133E-03		.000	
15	15	.469		.268E-01		.133E-03		.000	
16	16	-.265		.268E-01		.133E-03		.000	
17	17	.645E-01		.268E-01		.133E-03		.000	
18	18	-.372E-01		.268E-01		.133E-03		.000	
19	19	-.330		.268E-01		.133E-03		.000	
21	Ref Std.	.655	-37.1	.268E-01	.0	.133E-03	.0	.000	


File # TP-33
TPhos
TKN
100
90
80
70
60
50
40
30
20
10
1
2
3
4
5
6
7

ELKAY PRODUCTS, INC., WORCESTER, MASS




File # TP-33
100
90
80
70
60
50
40
30
20
10
16
17
18
19
23

general testing corporation

910

AUTO ANALYZER ANALYSIS: T- Phosphorus

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR (sample only)	N mg/1
1	2.0 ppm Std								
2	Blank				5.7		4		
3	.05 ppm std.				9.5				
4	.10	"			15.7				
5	.20	"			20.1				
6	.50	"			28.4				
7	.70	"			41.2				
8	1.00	"			49.2				
9	1.50	"			74.0				
10	2.00	"			95.1				
11	Blank				4.3				
12	Nutrient Check	Sample		EPA#8	72.4		1.48		
13	"	"	"	EPA#5	13.5		.138		
14		50225	B					20	
15		"	C					"	
16		"	d					"	
17		"	E					"	
18		"	F					"	
19		"	G					"	
20		"	H					"	
21		"	A					"	
22		"	A duplicate					"	
23		"	A spike (for TKN)					"	
24		50846	A		18.0		.240	4	4.8
25		50845	A		45.0		.836	"	17
26		50809			10.7		.091	10	.91
27	Method Blank				5.5		-.02		
28	Blank Spike (for TKN's)								
29	Blank Spike (.020 ppm)				15.0		.184		
30		50799	A					100	
31		"	d					100	
32		"	C					100	
33		Blank			6.0		-.011		
34	1.0 ppm	Std.			51.6		.946		.95
35		50799	B		21.3		.310	100	31
36	URS-Ontario	50705	F		13.1		.138		.14 ✓
37	"	"	C		41.9		.743	100	74 ✓
38	"	"	E		84.6		1.76	100	180 ✓
39		50855							
40	Nutrient Check	Sample		EPA#5	12.8		.131		

Analyst: [illegible] Date Digested: 5/20/85 Date Analyzed: 5/21/85

general testing corporation

GTC

AUTO ANALYZER ANALYSIS: T-phosphorous

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488 5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR (Sample only)	N mg/l
1		50845	A Duplicate		45.4		.846	20	
2		"	A Spike (1)		65.0		1.30		
3		50205	G		23.0		.346	100	3.5 ✓
4		"	G duplicate		22.1		.327	100	
5		"	G Spike (1)		44.0		.766	100	
6		50276			86.0		1.79		1.8
7		50844	A		4.0		.157		.16
8		"	A duplicate		13.6		.145		
9		"	A Spike (for TKN)						
10		"	B		13.4		.141		.14
11		"	C		12.9		.133		.13
12		50856	B						
13		"	A						
14	BLANK Spike (for TKN)								
15	BLANK				5.8		.015		
16	1.0 ppm Std.				49.3		.900		
17	Nutrient Check Sample EPA #3					38.5	1.34½	2	
18		50856	C						
19		"	D						
20		"	E						
21		"	F						
22		"	G						
23		"	G	duplicate					
24		"	G	Spike (for TKN)					
25		"	H						
26		"	I						
27		"	J						
28	BLANK Spike (for TKN)								
29	Nutrient Check Sample			EPA #3		34.7	0.633	2	
30	"	"	"	EPA #5		12.8	.131		
31	BLANK				3.5		.031		
32	1.0 ppm Std.				49.5		.941		
33		50862	A		24.8		.476	20	2.5
34		"	B		39.1		.684	20	14
35		"	C		21.0		.304	20	6.1
36		"	E		19.7		.277		.28
37		"	G		13.5		.144	20	2.9
38		"	G duplicate		13.4		.144	20	
39		"	G Spike		36.2		.603	20	
40	Nutrient Check	Sample	EPA #5		12.3		123		

(1) To ml 100 ppm Ammonia Monophosphate Solution Added To 10 mls. of Sample.

T.P STANDARDS Separated (.05, .50 & .70) used corr coef .996
(.7, 1.0, 1.5, 2.0) corr coef .996

Analyst: S Gabel Date: 5/20/85

QUALITY CONTROL

S. Gabel 5/21/85

T-Phos

PRECISION:

	High Level	Low Level
Warning Limit:		
Critical Limit:		

	First Value	Second Value	A-B	Avg A+B	$\frac{A-B}{A+B}$	$\frac{A-B}{A} \times 100$
0345 A	.844	.846	.002	.845		0.2%
0705 G	.346	.327	.019	.336		5.6%
0862	.146	.144	.002	.145		1.40%

SPIKED RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

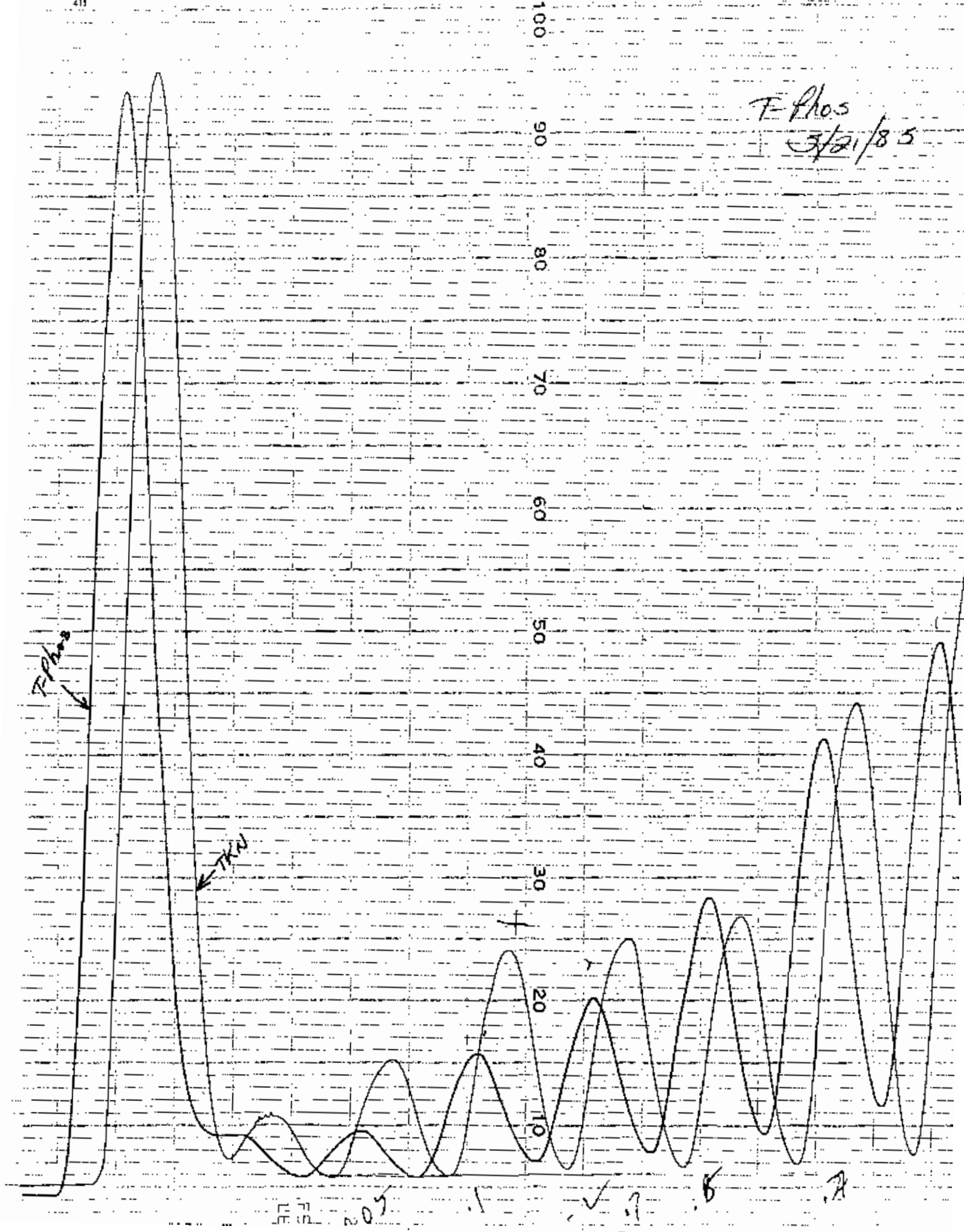
	Sample Value	Spiked Value	Amount Added	Amount Recovery	% Recovery
BLANK	.205	.188	.200	.188	94.0%
0845A	.845	1.30	.495	.456	92.1%
0705-G	.336	.786	.495	.450	90.9%
0862	.145	.623	.495	.478	96.5%

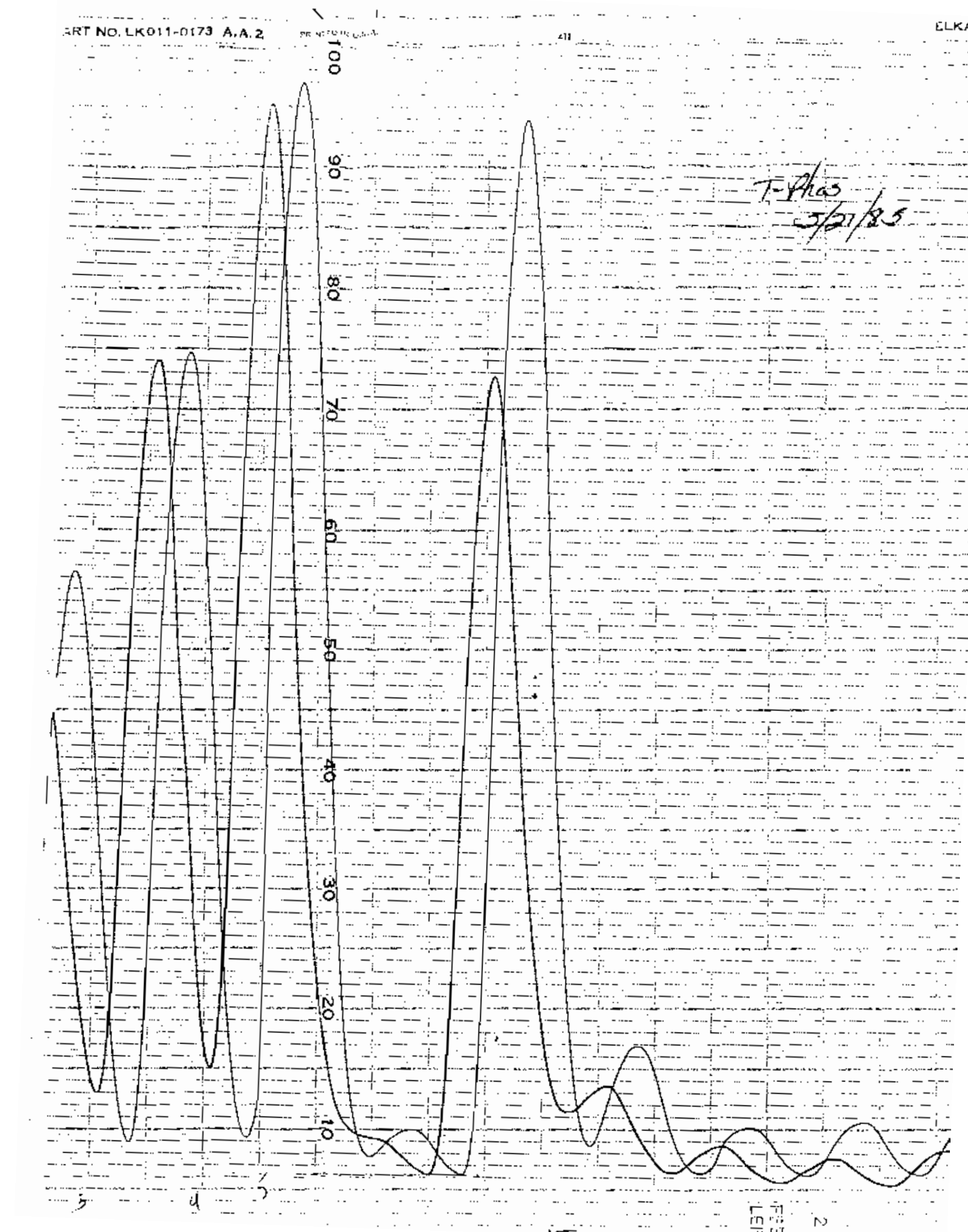
EPA STANDARD RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

	True Value	Analytical Value	% Recovery
8	1.37	1.48	108%
	"	1.34	92.8%
N-5	.130	.131	100%
		.137	105%
		.123	94.6%
		.131	100%

ELKAY PRODUCTS, INC., WORCESTER, MASS.

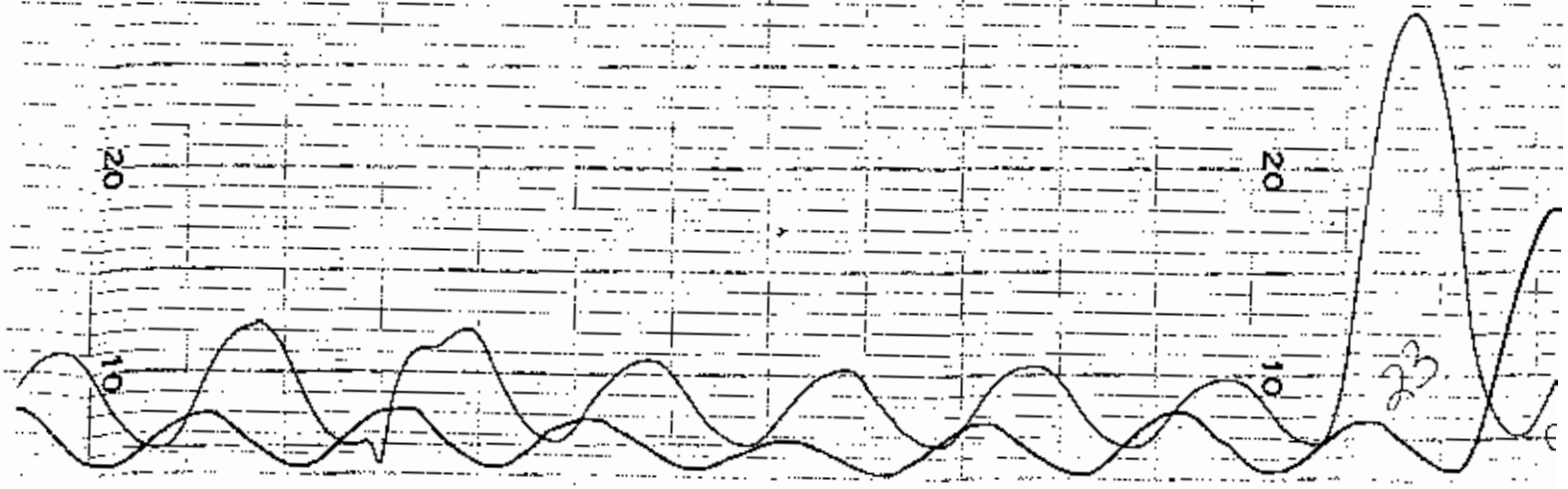



ART NO. LK011-0173 A.A.2
100
90
80
70
60
50
40
30
20
10
T-Phe
5/21/85

KAY PRODUCTS, INC., WORCESTER, MASS. CHART NO. LK011-0173 A.A.2 PRINTED IN U.S.A.

100
90
80
70
60
50
40
30
20
10

Ephos
5/24/85



ELKAY PRODUCTS, INC., WORCESTER, MASS.

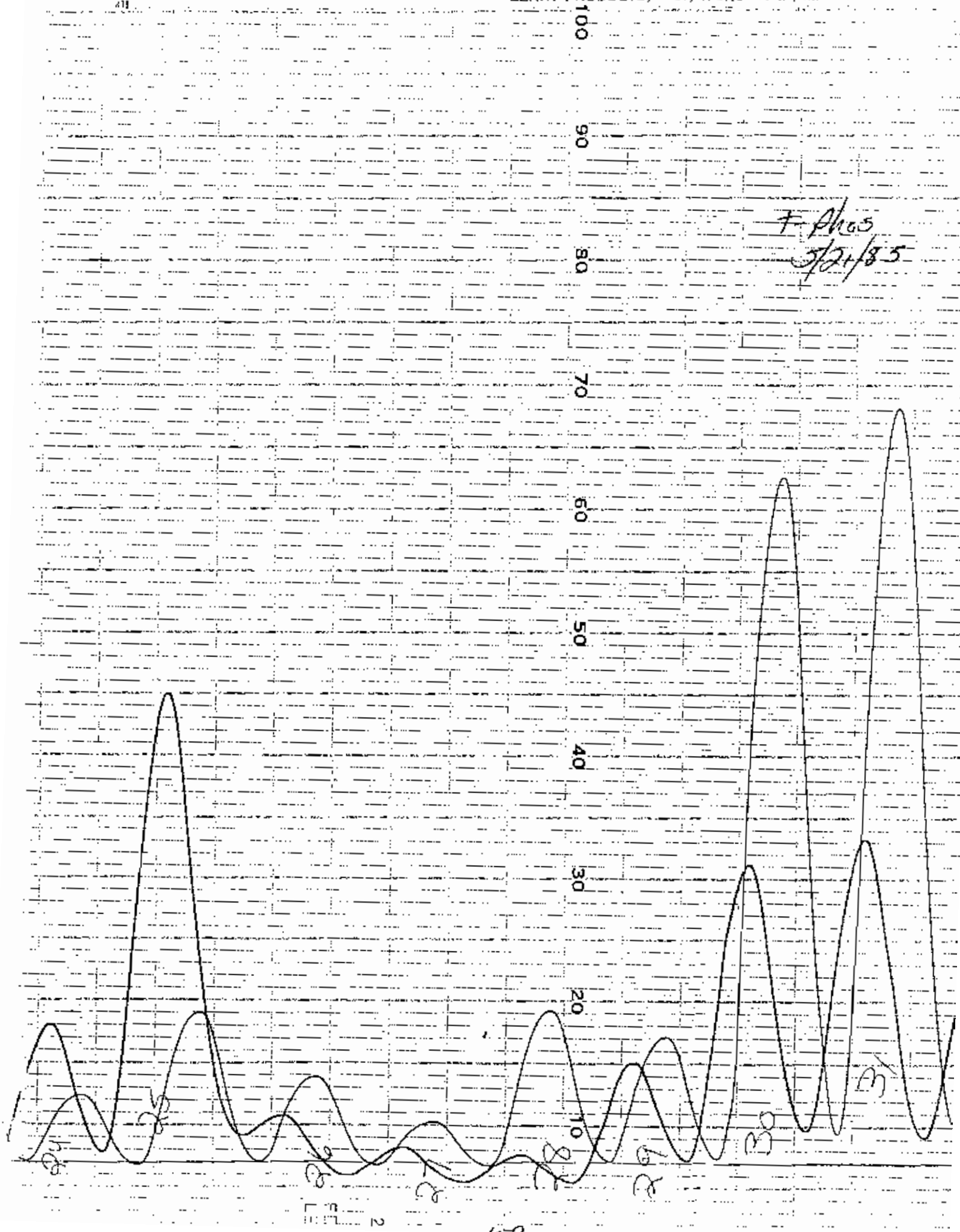
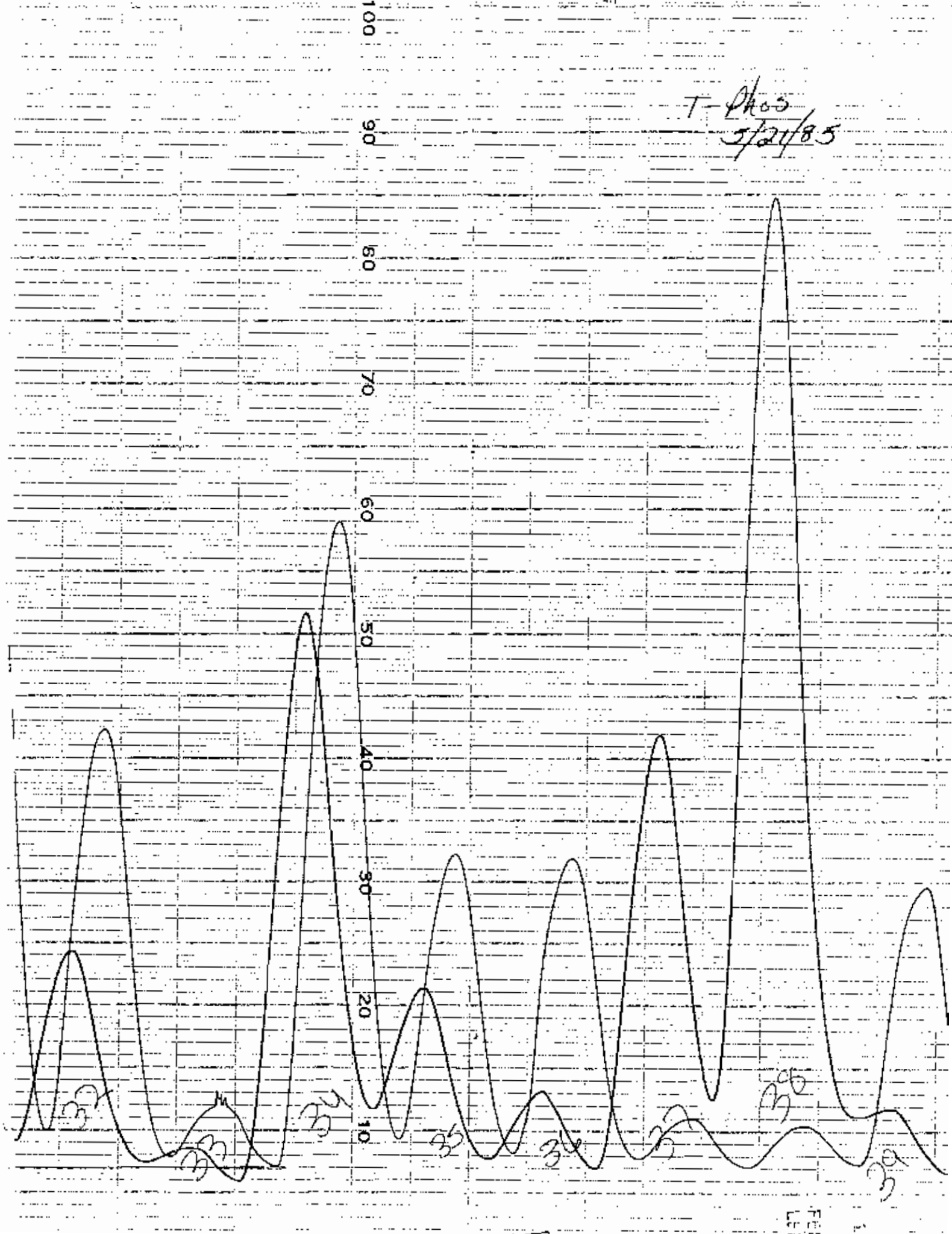
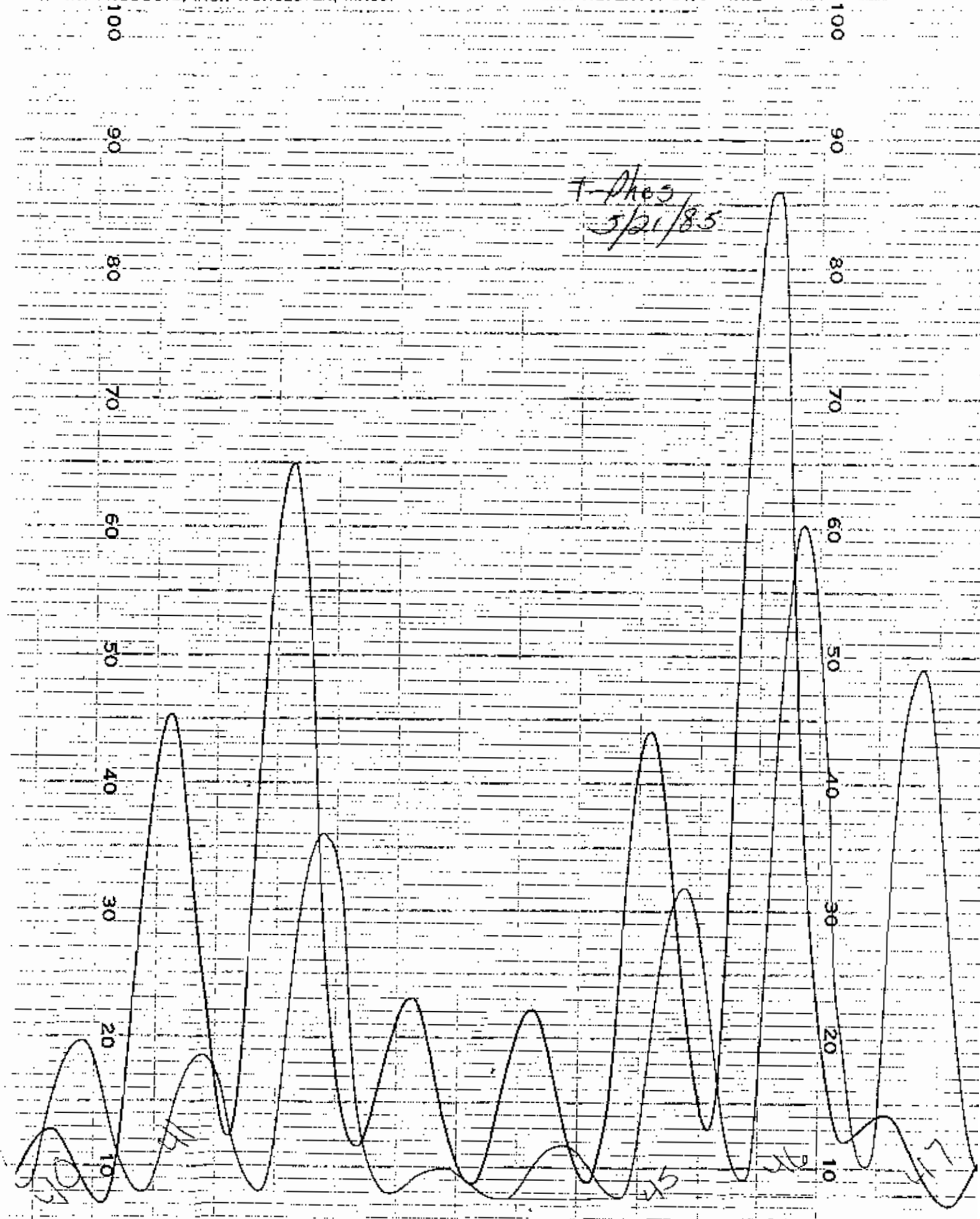


CHART NO. LK011-0173 A.A.2 PRINTED IN U.S.A.

T-Phos
5/21/85



ELKAY PRODUCTS, INC., WORCESTER, MASS. CHART NO. LK011-0173 A.A.2 PRINTED IN U.S.A.



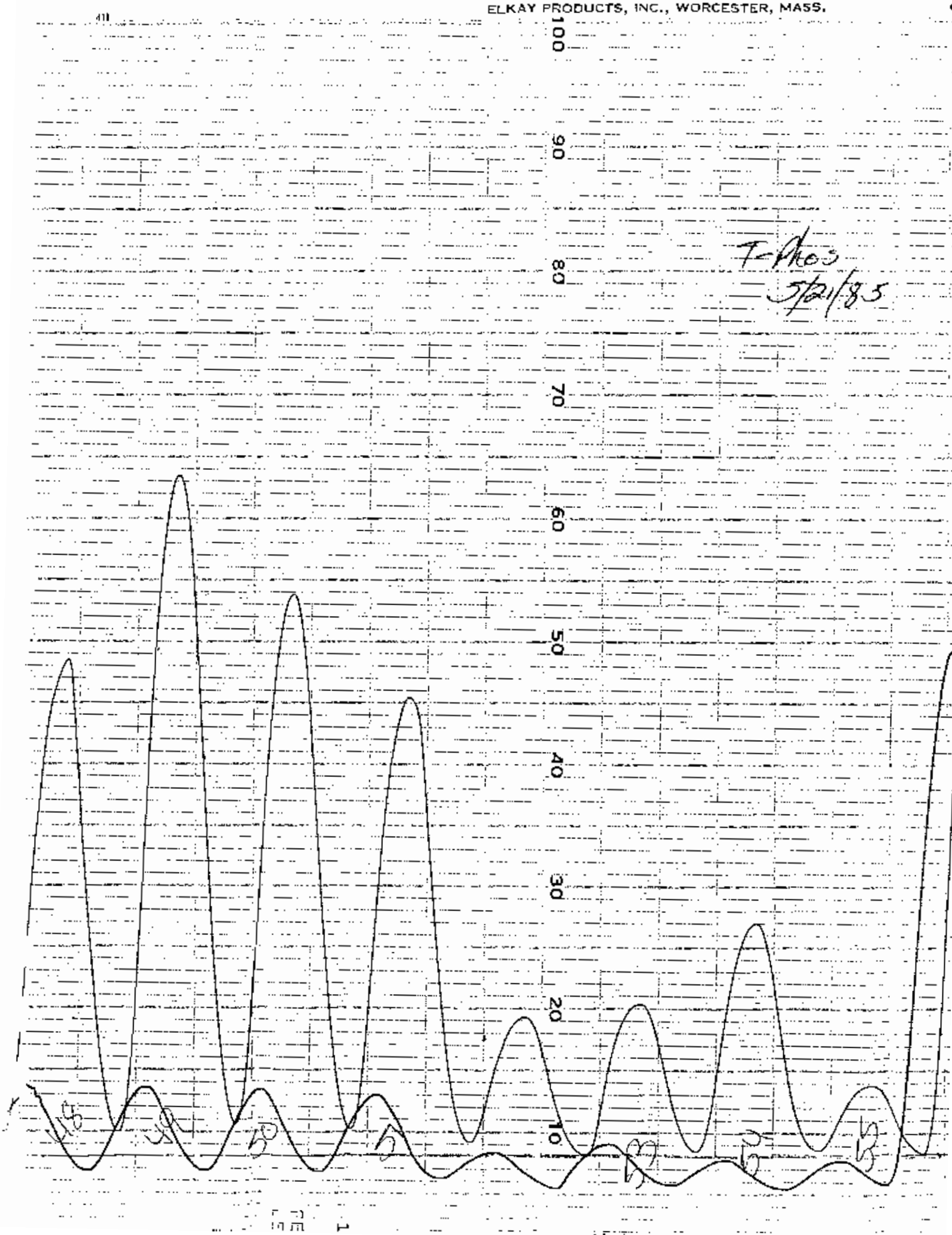
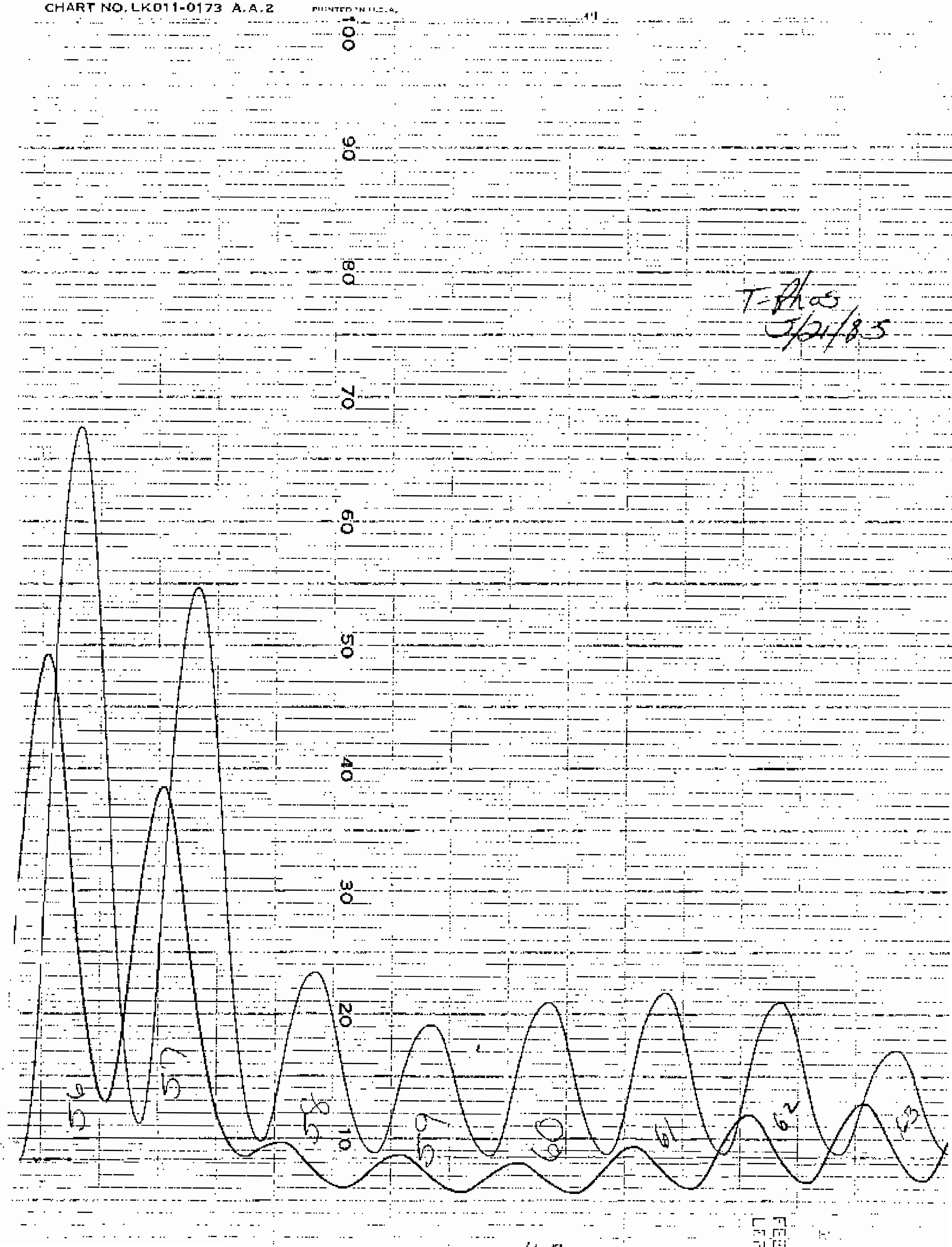
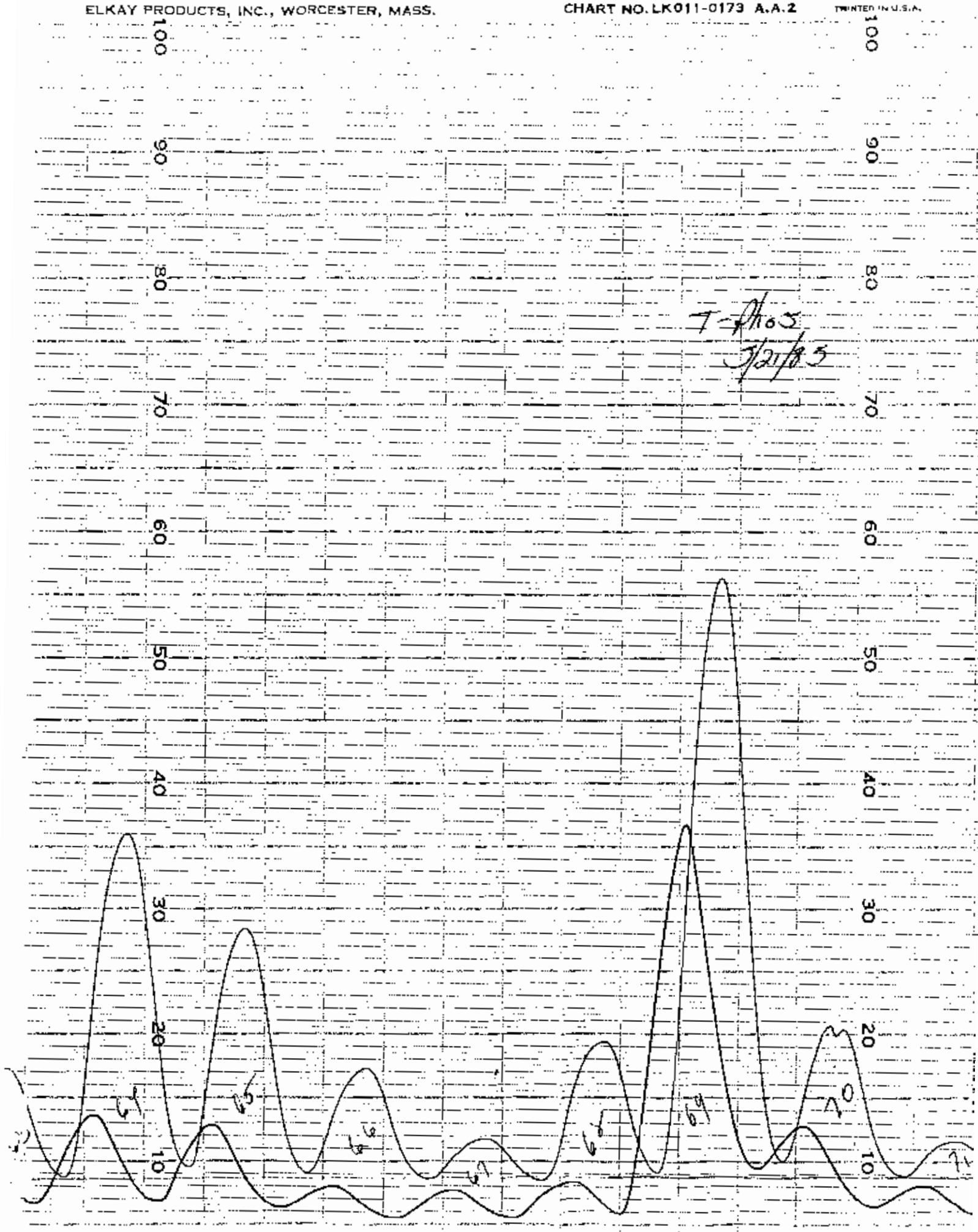

100
90
80
70
60
50
40
30
20
10
T-Rho3
5/21/85

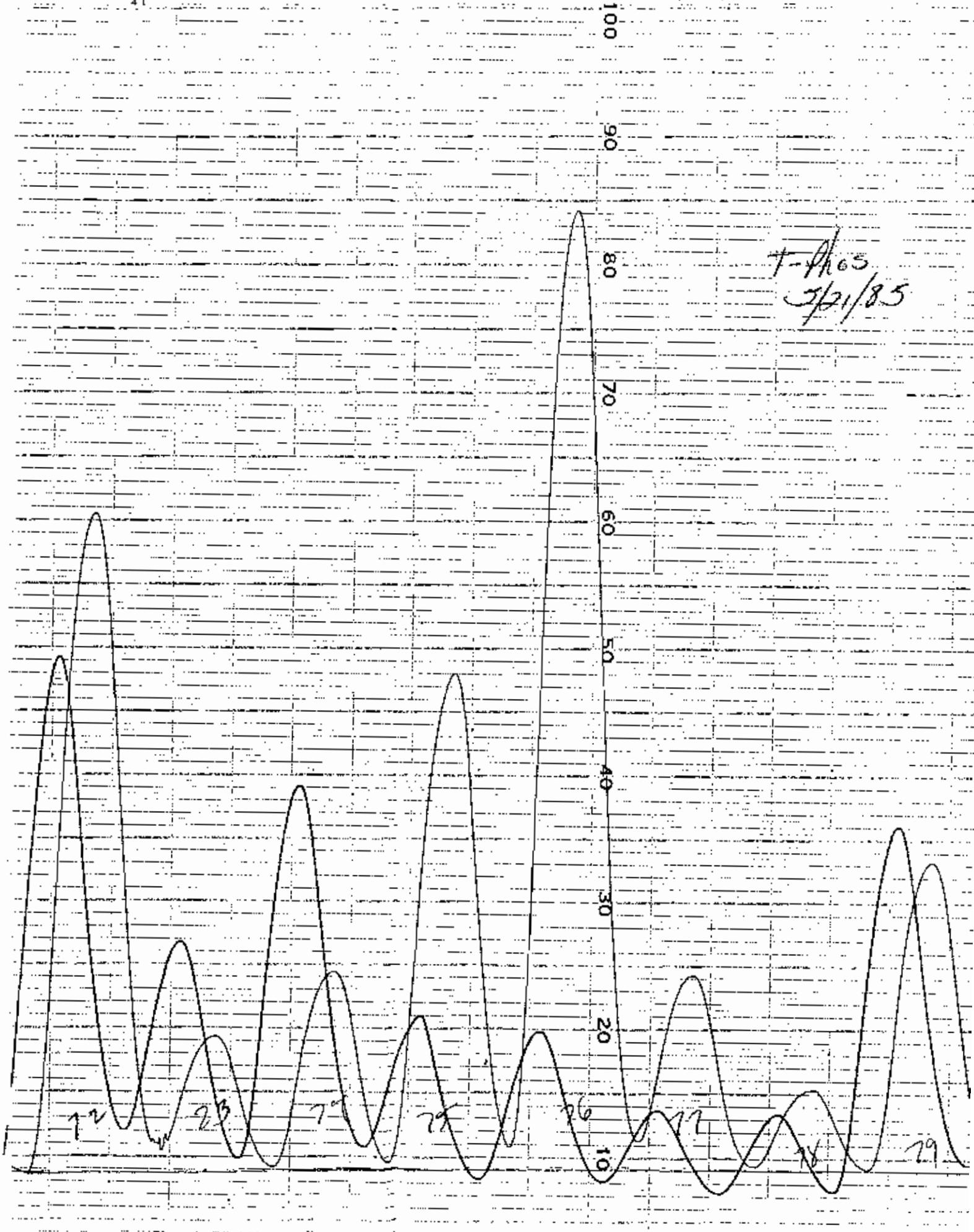
CHART NO. LK011-0173 A.A.2



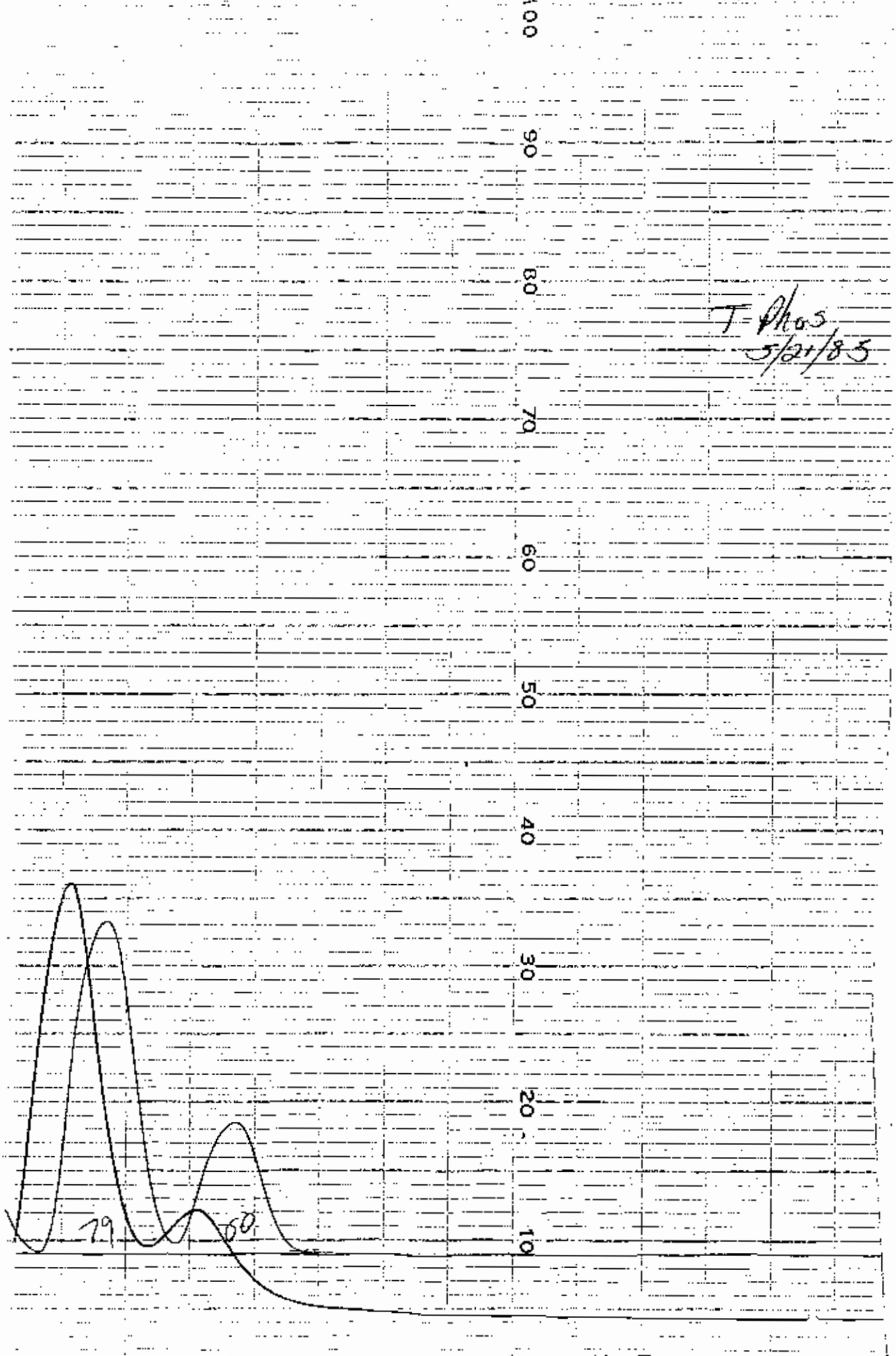
ELKAY PRODUCTS, INC., WORCESTER, MASS. CHART NO. LK011-0173 A.A.2 PRINTED IN U.S.A.



ELKAY PRODUCTS, INC., WORCESTER, MASS.



MASS. CHART NO. LK011-0173 A.A.2 PRINTED IN U.S.A. 411



general testing corporation

910

AUTO ANALYZER ANALYSIS: [illegible]

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR (sample only)	N mg/1
1	2.0 ppm std.					96.5			
2	Blank					6.5			
3	.05 ppm std.					9.2			
4	.10	"				18.8			
5	.20	"				7.4 (Reject)			
6	.50	"				27.0			
7	.75	"				36.4			
8	1.00	"				50.5			
9	1.50	"				75.5			
10	2.00	"				94.5			
11	Blank					9.0			
12	Nutrient Check Sample EPA # 8					36.0	.656	2	1.31
13	"	"	" EPA # 5			11.7	.114		.114
14		50225	A			7.8			
15		"	B			19.6			
16		"	C			6.9			
17		"	D			6.8			
18		"	E			6.6			
19			F			6.4			
20		"	G			17.7			
21		"	H			7.0			
22	Blank Spike (For TKN)					7.7			
23		50836	A			6.8			
24		"	B			INTERFERENCE			
25		"	C			7.3			
26		"	D			7.0			
27		"	E			6.6			
28		"	F			8.0			
29		"	G			12.2			
30		"	G duplicate			11.6			
31		"	G spike (For TKN)			12.6			
32		"	H			11.8			
33	Blank					7.3			
34	1.00 ppm std.					48.5	.918		.918
35	"	50836	E			7.7			
36		"	J			6.4			
37	Nutrient Check Sample EPA # 5					10.6			
38	Method Blank					6.5	-.009		-.009
39	Blank Spike (For TKN)					6.4			
40	Blank	Spike	(1)			14.2	.171		.171

(1) 20 ul of 100 ppm Potassium Monophosphate into 10 mls. Sample.
(2) 50 ul " " " "

Analyst: S. Gabel   Date digested: 6/3/85   Date Analyzed: [illegible]

general testing corporation

gtc

AUTO ANALYZER ANALYSIS: [illegible]

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

NO.	COMPANY	JOB#	STA.	SAMPLE VOL.	PEAK HT.	CORR. PK. HT.	mg.	DIL. FACTOR	N mg/l
1	[illegible]	[illegible]	B			7.3	.003		<.05 ✓
2	"	"	A			6.8	—		<.05 ✓
3		[illegible]				13.2			
4		50968	A			61.1	1.30	200	260
5		"	B			23.9	.404	200	81
6		50963	A			20.5	.320	20	6.4
7		"	A duplicate			20.5	.319	20	
8		"	A spike (B)			41.3	.819	20	
9		"	C			18.2	.278	20	5.6
10		"	D			33.4	.679	20	14
11		"	E			23.8	.398		.40
12		"	G			12.4	.121	20	2.4
13	Nutrient Check Sample 5-A23					35.4	.675	.2	1.35
14	Blank spike (1)					14.8	.182		.182
15	Blank					7.0	.930		
16	1.0 ppm std					47.7	.930		
17		50896	A			53.5	1.14	20	23
18		50892	A			55.0	1.18	20	24
19		50629	A			9.6			
20		"	B			9.2			
21		"	B duplicate			7.7			
22		"	B spike (for TKN)			7.5			
23		50900	A			26.4	.453	20	9.9
24		50904	A			79.1	1.76	20	35
25		50915	A			over			
26		"	B			over			
27		"	C			repeat			
28		"	D			20.3			
29		"	E			65.2			
30		"	F			9.5			
31		"	G			8.8			
32		"	H			8.0			
33		"	I			7.3			
34		"	K			5.9			
35		"	J			6.9			
36		"	J duplicate			6.4			
37	Blank					6.4			
38	1.0 ppm std					47.7	.925		.925
39	"	[illegible]	J spike (for TKN)			8.0			
40	Nutrient Check Sample 5-A25					11.3	.118		.118

ANALYST: J. GABRI DATE: 6/4/85

T-Phos 6/4/85

QUALITY CONTROL

PRECISION:

	High Level	Low Level
Warning Limit:		
Critical Limit:		

	First Value	Second Value	A-B	$\overline{x}$	$\frac{A-B}{A+B}$	$\frac{A-B}{A} \times 100$
863 A	.319	.320	.001	.320		0.3%

SPIKED RECOVERY:

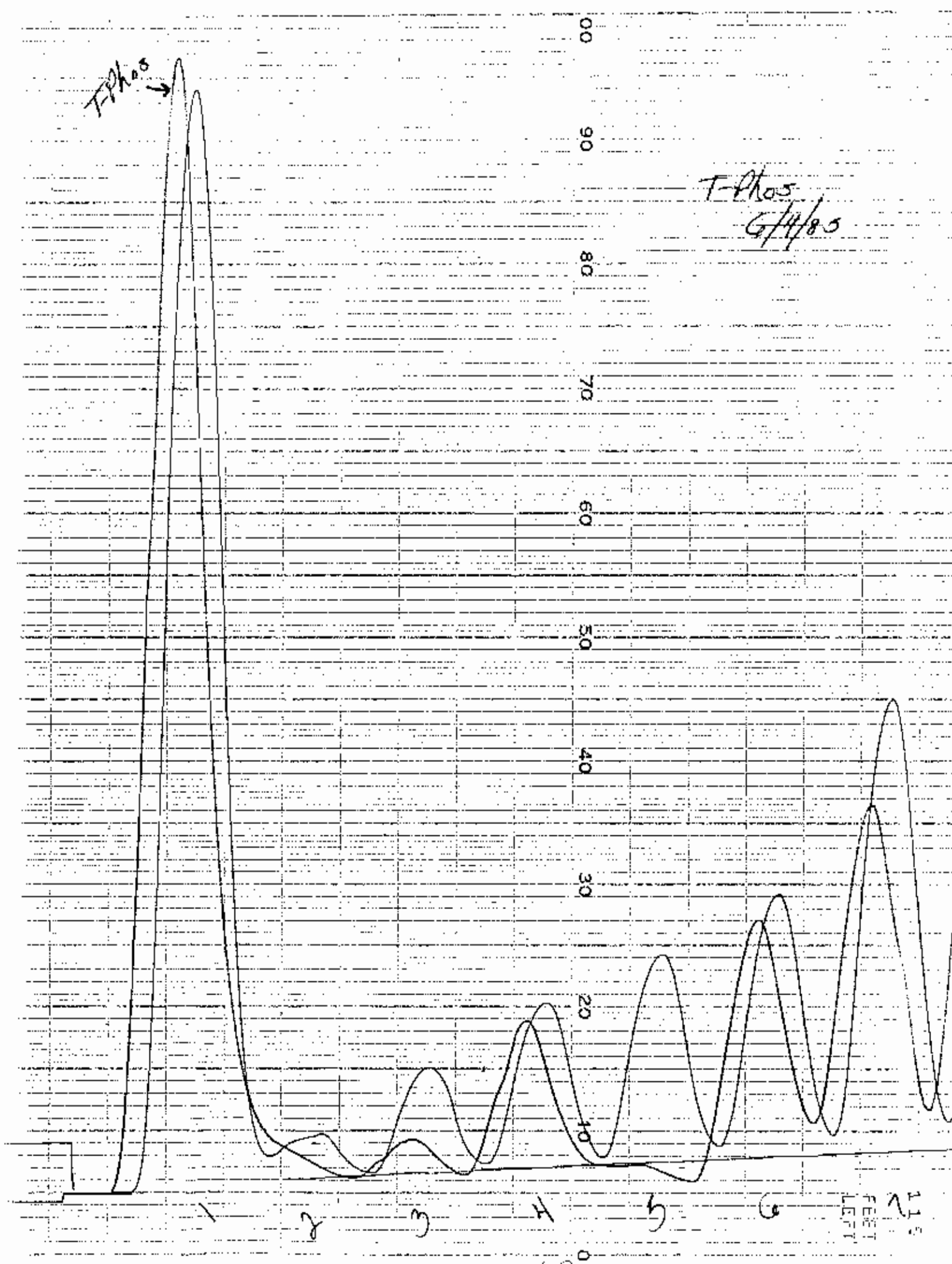
	UCL	UWL	LCL	LWL
High Level				
Low Level				

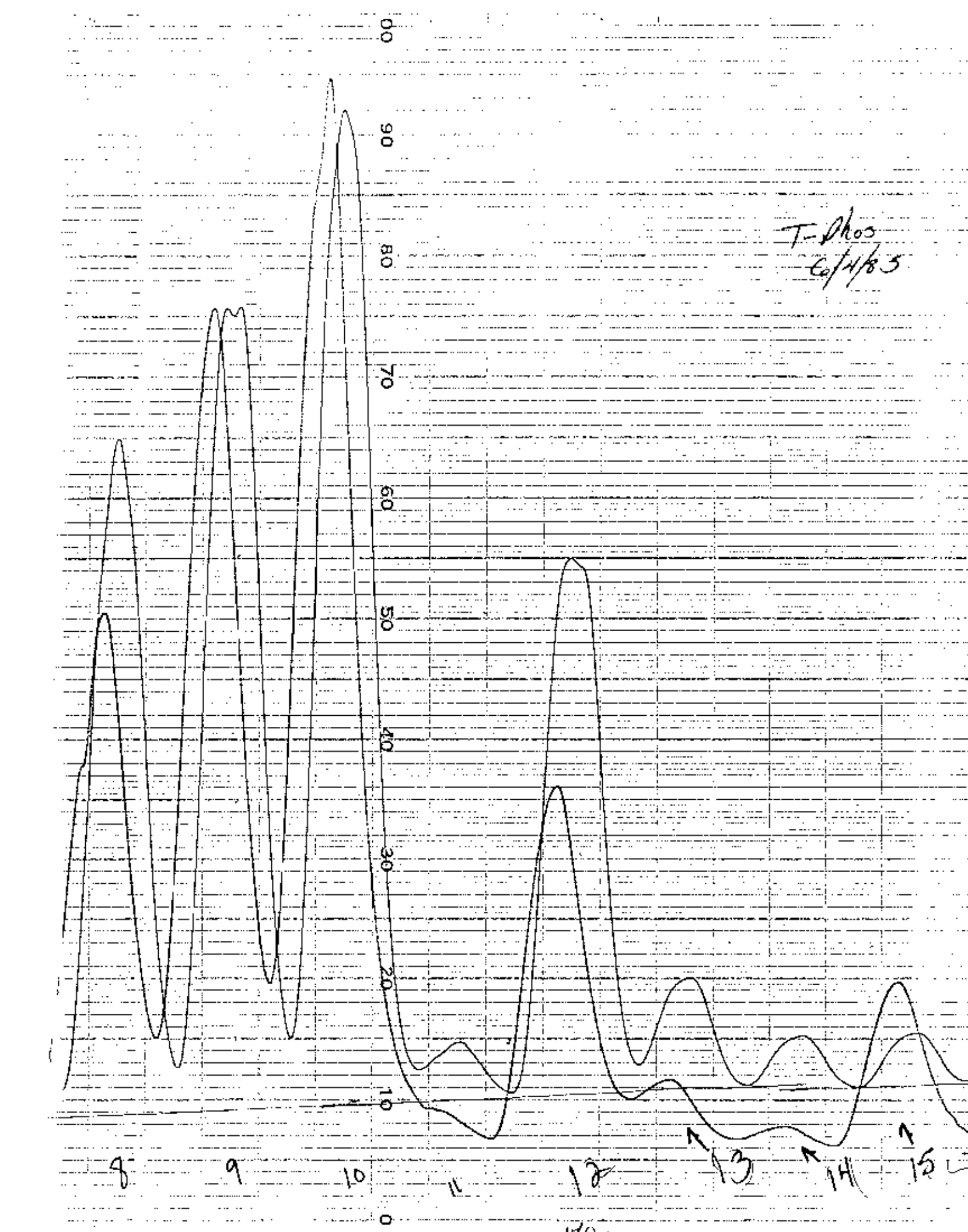
	Sample Value	Spiked Value	Amount Added	Amount Recovery	% Recovery
BLANK	<.05	.171	.200	.171	85.6%
"	<.05	.182	.200	.182	91.0%
863-A	.320	.819	.495	.499	101%

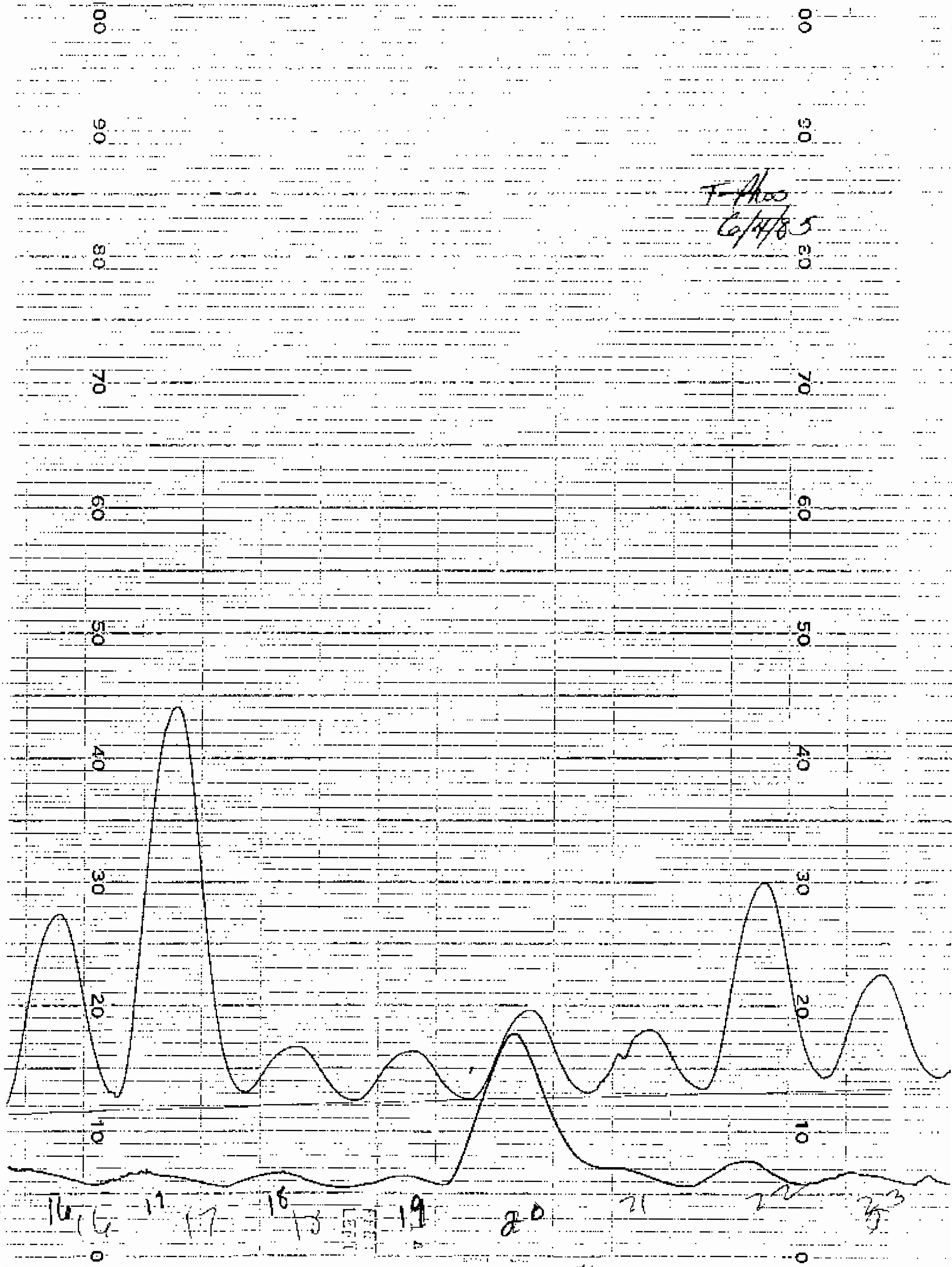
EPA STANDARD RECOVERY:

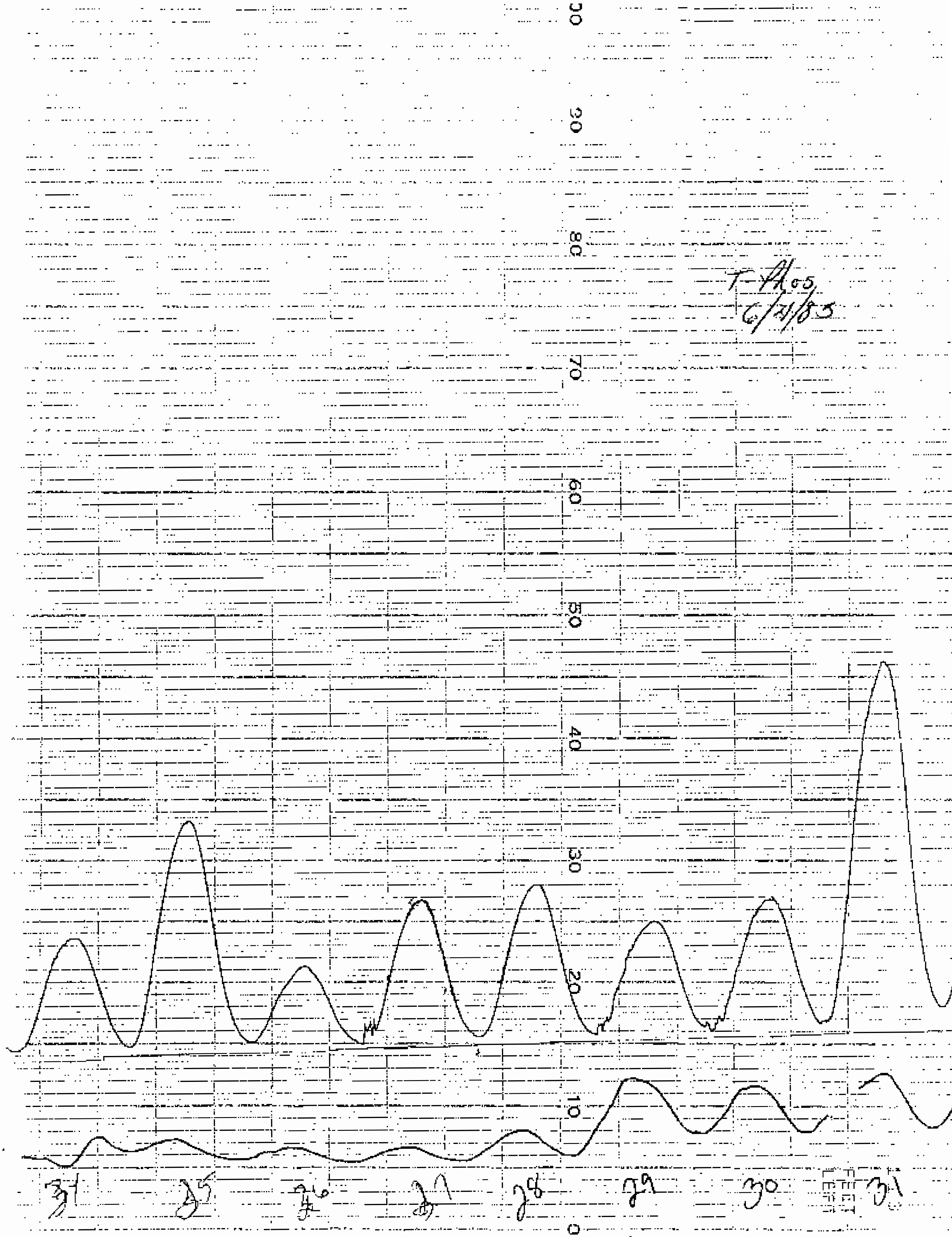
	UCL	UWL	LCL	LWL
High Level				
Low Level				

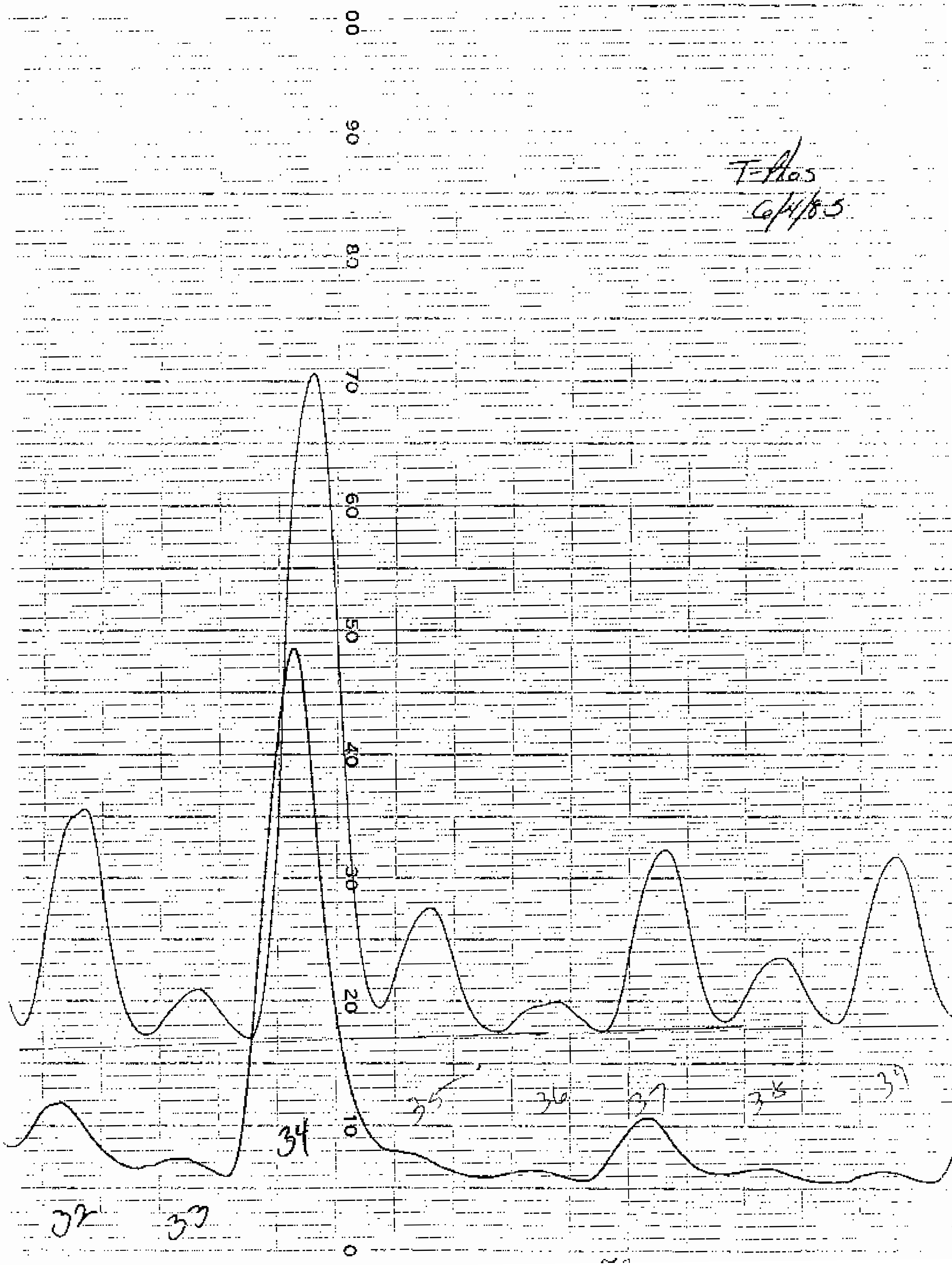
	True Value	Analytical Value	% Recovery
#8	1.37	1.31	95.6%
	1.37	1.35	98.5%
EPA #5	.130	.114	87.7%
	"	.109	83.8%
	"	.118	90.8%

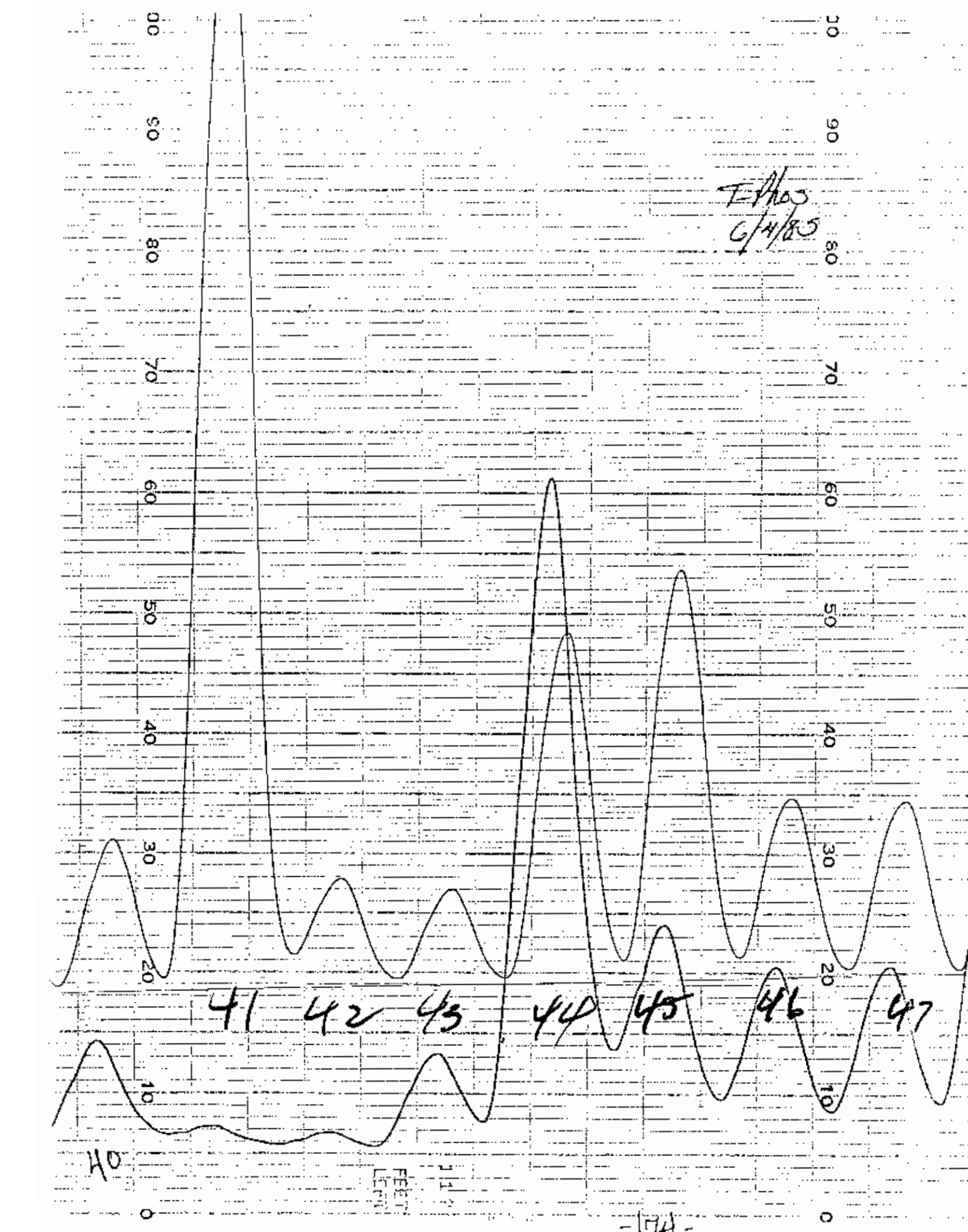

T-Phas
T-Phas
6/4/85
100
90
80
70
60
50
40
30
20
10
0


T-Dhos
6/4/85
100
90
80
70
60
50
40
30
20
10
0
8
9
10
11
12
13
14
15


16
17
18
19
20
21
22
23


90
80
6/21/85
70
60
50
40
30
20
10
0
24
25
26
27
28
29
30
31


T-Phos
6/4/85
32
33
34
35
36
37
38
39
10
20
30
40
50
60
70
80
90
00
0

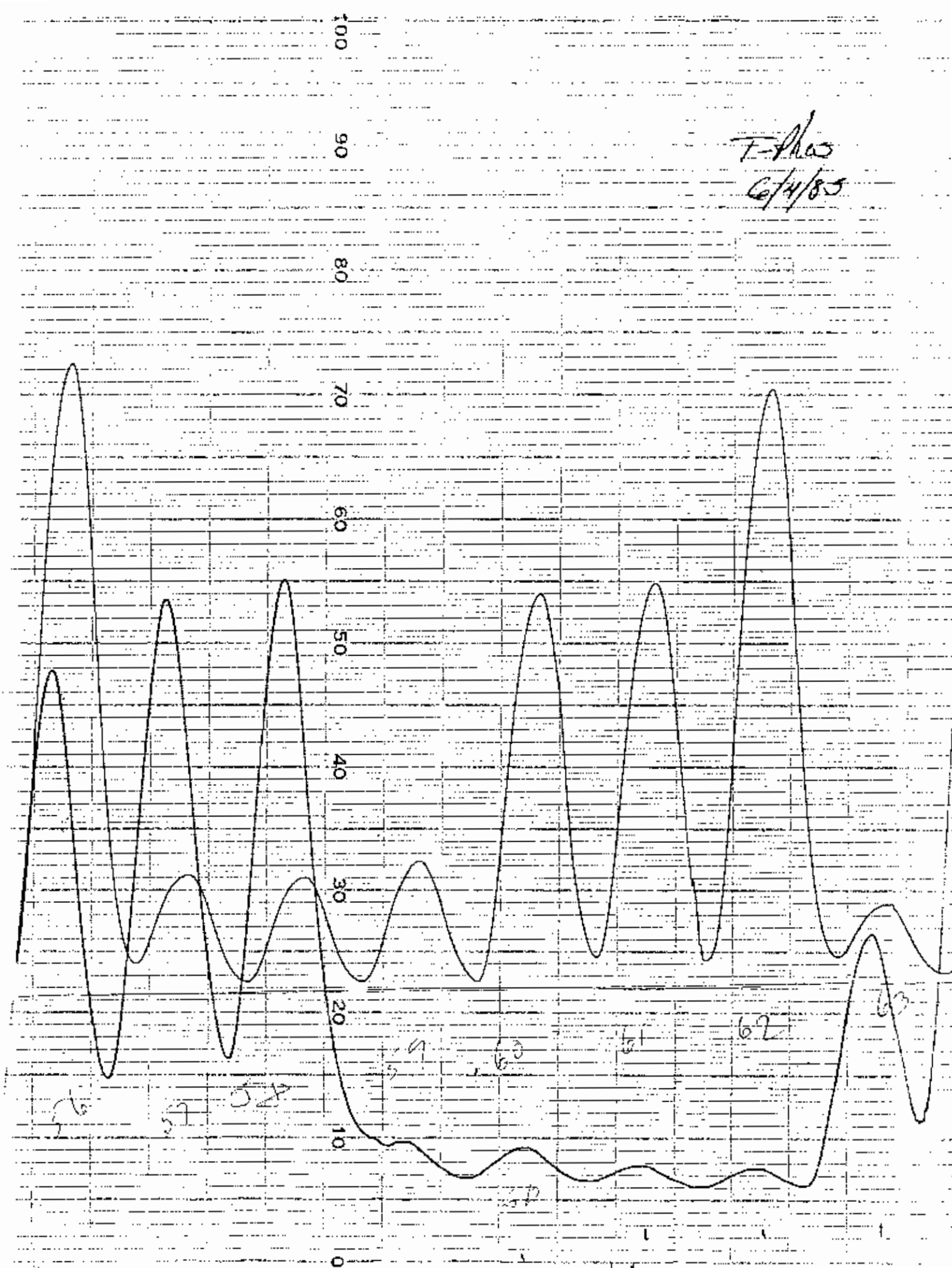

E-Rho
6/4/85
41
42
43
44
45
46
47
40
FEET

T-Mos
6/4/85

00
90
80
70
60
50
40
30
20
10
0

48 49 50 51 52 53 54 55

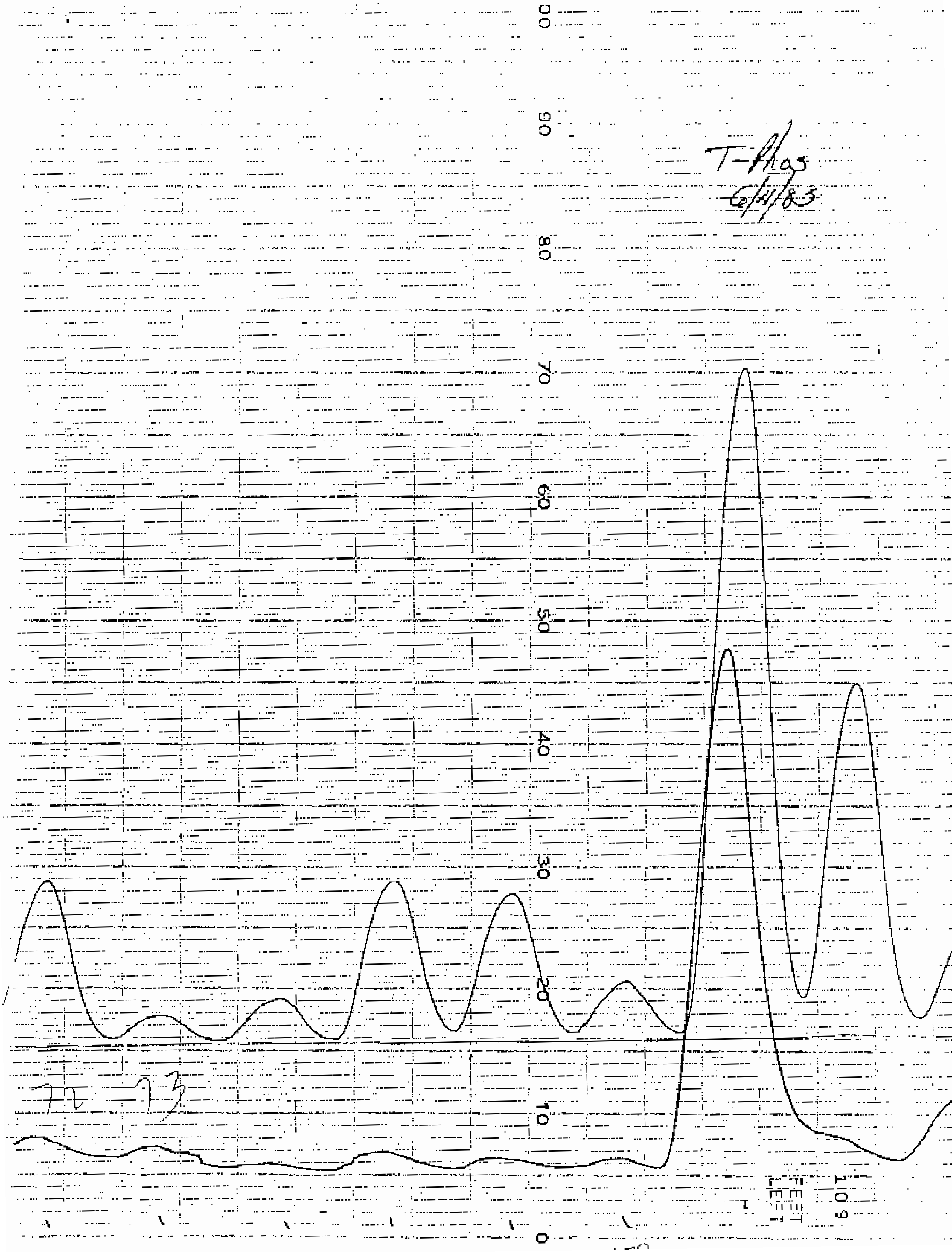
FEET
LEFT

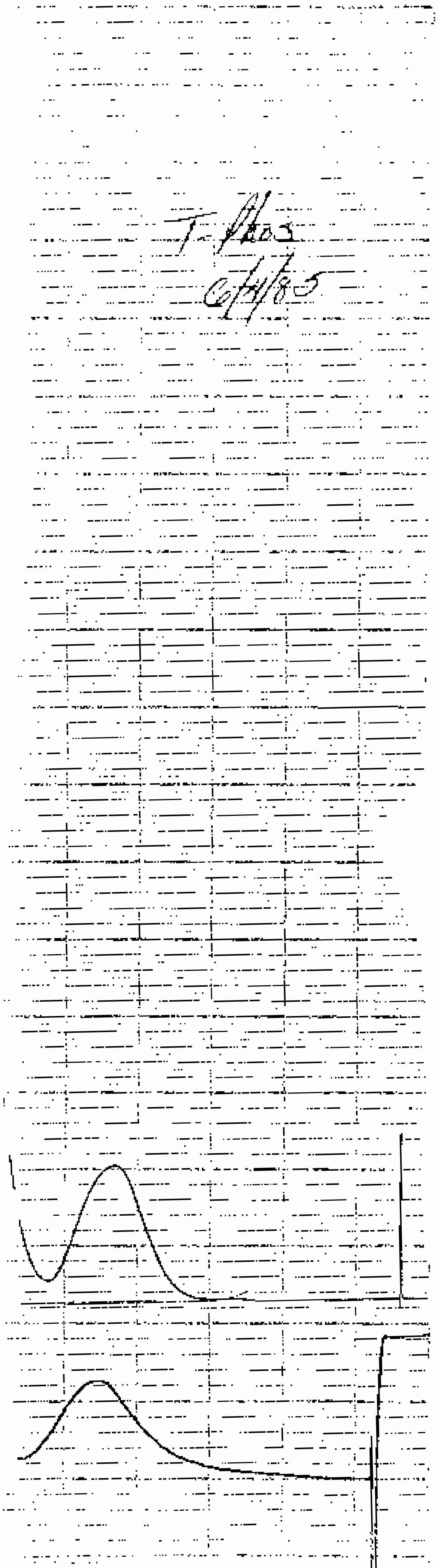

100
90
80
70
60
50
40
30
20
10
0
F-Rho
6/4/85

T-Rhos
6/4/85

100
90
80
70
60
50
40
30
20
10
0

FEET
LEFT


T-Phos
6/14/83
72 - 73
10
20
30
40
50
60
70
80
90



SECTION III
SUBPART D-8

RAW DATA FOR:

DISSOLVED SOLIDS

general testing corporation

gtc

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454 3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

J. Burke 5/8/85

SOLIDS

SOLIDS SUSPENDED 103°c ________ Dissolved 180°c ✓ ________ Total 103°c ________

M. Rubinstein 5/6/85

Job #	NAME	DISH #	SAMPLE VOL.		ppm
50705 A	Dalton + Dalton	MIC	95 ml	Gross 96.7588 Tare 96.6997 Diff .0591	620
50705 B	"	20	102 ml	Gross 73.5506 Tare 73.4872 Diff .0634	621 620
50705 C	"	727	96 ml	Gross 95.1493 Tare 95.1143 Diff .0350	360
50705 D	"	747	99 ml	Gross 97.3127 Tare 97.2945 Diff .0182	180
50705 E	"	231	96 ml	Gross 74.0877 Tare 74.0591 Diff .0286	300
50705 F	"	NV	96 ml	Gross 76.8265 Tare 76.7817 Diff .0448	470
50705 G	"	X-13	99 ml	Gross 87.8535 Tare 87.8073 Diff .0462	470
50705 D DUP	"	PCB	98 ml	Gross 95.7542 KB Tare 95.6936 Diff .0606	618 620

general testing corporation

SOLIDS

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

SOLIDS SUSPENDED 103°c _____ Dissolved 180°c ✓ Total 103°c _____

M. Rubinstein 5/6/05

Job #	NAME	DISH #	SAMPLE VOL.		ppm
BLANK		22		Gross 72 · 1250 Tare 72 · 1275 Diff −.0025	
EPA #3		STY	98 ml	Gross 97 · 1302 Tare 97 · 1176 Diff .0126	1286 130
50735	Spencerport S.D.	∞	103 ml	Gross 67 · 7979 Tare 67 · 6873 Diff .1106	✓ 1100
50744 A	MOHAWK	Θ	96 ml	Gross 69 · 2033 Tare 69 · 1870 Diff .0163	✓ 170
50744 B	MOHAWK	X.87	100 ml	Gross 94 · 2020 Tare 94 · 0506 Diff .1514	✓ 1500
				Gross . Tare . Diff .	
				Gross . Tare . Diff .	
				Gross . Tare . Diff .	

CONTROL

PRECISION:

	High Level	Low Level
Warning Limit:		
Critical Limit:		

First Value	Second Value	A-B	A+B	$(\frac{A-B}{A+B})$	$\frac{A-B}{A} \times 100$
6098 (2)	618	3	619.5		0.5%

SPIKED RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

Sample Value	Spiked Value	Amount Added	Amount Recovery	% Recovery

EPA STANDARD RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

True Value	Analytical Value	% Recovery
WA#3 137	128.6	94.2%

general testing corporation

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

TARE WEIGHTS

Date 5/1/85
Analyst: M. Robinson
Crucible 104°C
Crucible 550°C
Dish 180°C ✓
Dish 104°C
Dish 550°C
C/O Flask

ID NUMBER	WEIGHT
~~X-13~~	~~87.8073~~
~~X-81~~	94.0506
~~577~~	97.1176
~~22~~	~~92.1275~~
~~AA~~	~~76.7817~~
~~00~~	67.6873
~~E~~	69.1870
~~749~~	97.2945
PCB	95.6936
~~MIC~~	96.6997
~~231~~	~~94.0591~~
~~20~~	~~93.4872~~
~~729~~	95.1143

ID NUMBER	WEIGHT

/WR BALANCE (Left)				FISHER BALANCE (Right)			
E & ITIALS	10 mg	1.0 gm	10.0 gm	DATE & INITIALS	10.0 mg	1.0 gm	10.0 gm
				5/2/85 AK	0.0100	1.0000	10.0000
				3/13/85 AK	0.0100	1.0000	10.0000
				3/14/85 AK	0.0100	1.0000	10.0000
				3/15/85 AK	0.0100	1.0000	10.0000
				3/18/85 AK	0.0100	1.0000	10.0000
				3/19/85 RL	0.0100	1.0000	10.0000
				3-20-85 RL	0.0100	1.0000	10.0000
				3/21/85 AK	0.0100	1.0000	10.0000
				3-22-85 RL	0.0100	1.0000	10.0000
				3/25/85 AK	0.0100	1.0000	10.0000
				3-26-85 RL	0.0100	1.0000	10.0000
				3/27/85 AK	0.0100	1.0000	10.0000
				3/28/85 AK	0.0100	1.0000	10.0000
				3/29/85 AK	0.0100	1.0000	10.0000
				4/1/85 AK	0.0100	1.0000	10.0000
				4/2/85 AK	0.0100	1.0000	10.0000
				4/3/85 AK	0.0100	1.0000	10.0000
				4/4/85 AK	0.0100	1.0000	10.0000
				4/5/85 AK	0.0100	1.0000	10.0000
				4/8/85 AK	0.0100	1.0000	10.0000
				4/11/85 AK	0.0100	1.0000	10.0000
				4/12/85 AK	0.0100	1.0000	10.0000
				4/14/85 AK	0.0100	1.0000	10.0000
				4/16/85 AK	0.0100	1.0000	10.0000
				4/17/85 AK	0.0100	1.0000	10.0000
				4/18/85 AK	0.0100	1.0000	10.0000
				4/19/85 KB	0.0100	1.0000	10.0000
				4/22/85 KB	0.0100	1.0000	10.0000
				4/29/85 AK	0.0100	1.0000	10.0000
				4/30/85 AK	0.0100	1.0000	10.0000
				5/1/85 AK	0.0100	1.0000	10.0000
				5/2/85 AK	0.0100	1.0000	10.0000
				5/3/85 AK	0.0100	1.0000	10.0000
				5/6/85 AK	0.0100	1.0000	10.0000
				5/8/85 AK	0.0100	1.0000	10.0000
				5/10/85 AK	0.0100	1.0000	10.0000
				5/13/85 AK	0.0100	1.0000	10.0000
				5/15/85 AK	0.0100	1.0000	10.0000
				5/16/85 MR	0.0103	1.0002	10.0000
				5/17/85 MR	0.0099	1.0002	10.0000

TEMPERATURE CHART

Daily Log

Type of Equipment or Instrument: 180°C Dry-Air OVEN

Date	Initials	Reading	Date	Initials	Reading
1/5/85	SC	181°C	4/19/85	A.K.	185°C
1/6/85	SG	184°C	4/21/85	MS	179.5°C
1/7/85	S.G.	182°C	4/25/85	AK	184°C
1/8/85	SG	181°C	4/29/85	AK	176°C
1/12/85	S. G	181°C	4/30/85	AK	178°C
1/13/85	SC	183°C	5/1/85	AK	181°C
1/14/85		181°C	5/2/85	AK	181°C
1/25/85	S. G	184°C	5/3/85	AK	180°C
1/27/85	S.G	185°C	5/6/85	AK	181°C
1/15/85	S.G	185°C	5/7/85	AK	173°C
1/16/85	S.G	182°C	5/9/85	AK	179°C
1/14/85	AK	184°C	5/14/85	MR	18.5°C
1/15/85	S.G	184°C	5/16/85	MR	180°C
1/21/85	AK	184°C	5/17/85	MR	179.5°C
1/25/85	S.G	193	5/20/85	AK	180.0°C
3/29/85	S.G	183°C	5/21/85	AK	179.5°C
1/31/85	S.G	183°C	5/22/85	AK	180.0°C
			5/23/85	AK	181.0°C
			5/24/85	AK	179.0°C
			5/31/85	KB	180°
			6/3/85	AK	180.0°C
			6/4/85	AK	180.0C
			6/5/85	AK	180.0°C

SECTION II

SUBPART D-9

RAW DATA FOR:

SUSPENDED SOLIDS

general testing corporation

gtc

SOLIDS K. Bunker 5/7/85

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3780

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

SOLIDS SUSPENDED 103°c ✓ Dissolved 180°c _____ Total 103°c _____

M. Cubinstein 5/3/85

Job #	NAME	DISH #	SAMPLE VOL.		ppm
50737 A	B+L	KKK	50 ml	Gross 18.9256 Tare 18.9125 Diff .0131	262 260 ✓
50737 B	B+L	E9	100 ml	Gross 18.8309 Tare 18.8290 Diff .0019	19 ✓
50737 C	B+L	2	50 ml	Gross 17.7086 Tare 17.7065 Diff .0021	42 ✓
50737 D	B+L	B	100 ml	Gross 16.6759 Tare 16.6735 Diff .0024	24 ✓
50737 E	B+L	219	100 ml	Gross 16.0138 Tare 16.0120 Diff .0018	18 ✓
50737 F	B+L	C6	25 ml	Gross 18.3905 Tare 18.2837 Diff .1068	4/300. ~~40~~
50737 G	B+L	✓ coors	100 ml	Gross 19.2418 Tare 19.2380 Diff .0038	38 ✓
50737 H	B+L	13	300 ml	Gross 17.7450 Tare 17.7399 Diff .0051	17 ✓

1

general testing corporation

gtc

SOLIDS

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

SOLIDS SUSPENDED 103°c ✓ Dissolved 180°c _____ Total 103°c _____

M. Rubinstein 5/3/85

Job #	NAME	DISH #	SAMPLE VOL.		ppm
0737 I	B+L	10	100 ml	Gross 17 · 6114 Tare 17 · 6079 Diff · 0035	35 ✓
0737 J	B+L	506	200 ml	Gross 18 · 9678 Tare 18 · 9644 Diff · 0034	17 ✓
0737 K	B+L	70	100 ml	Gross 17 · 4917 Tare 17 · 4852 Diff · 0065	65 ✓
0737 L	B+L	C5	100 ml	Gross 18 · 9436 Tare 18 · 9397 Diff · 0039	39 ✓
50737 M	B+L	30	100 ml	Gross 17 · 3634 Tare 17 · 3595 Diff · 0039	39 ✓
0737 N	B+L	DD	200 ml	Gross 18 · 8976 Tare 18 · 8929 Diff · 0047	24 ✓
50737 [illegible] pup	B+L	110 ~~[illegible]~~	50 ml	Gross 17 · 1754 Tare 17 · 1733 Diff · 0021	42
~~[illegible]~~ PA #2	B+L	D4	100 ml	Gross 18 · 8595 Tare 18 · 8494 Diff · 0101	101 ~~100~~

general testing corporation

SOLIDS

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

SOLIDS SUSPENDED 103°c ✓ Dissolved 180°c _____ Total 103°c _____

M. Rubinstein 5/3/85

Job #	NAME	DISH #	SAMPLE VOL.		ppm
BLANK #1		201		Gross 17.7929 Tare 17.7923 Diff .0006	6
50736	G+L	19	~~75~~ 25 ml	Gross 16.9002 Tare 16.8983 Diff .0019	76
50738 C	KODAK	no name	100 ml	Gross 17.6312 Tare 17.6275 Diff .0037	37 ✓
50738 D	KODAK	D3	100 ml	Gross 18.3238 Tare 18.3205 Diff .0033	33 ✓
50738 G	KODAK	G	100 ml	Gross 17.2389 Tare 17.2346 Diff .0043	43 ✓
50738 H	KODAK	D5	100 ml	Gross 18.4380 Tare 18.4348 Diff .0032	32 ✓
50705 A	Dalton & Dalton	FH	300 ml	Gross 19.2114 Tare 19.2104 Diff .0010	3.3 ✓
50705 B	Dalton & Dalton	502	300 ml	Gross 19.0751 Tare 19.0729 Diff .0022	7.3 ✓

general testing corporation

SOLIDS

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 464-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

SOLIDS SUSPENDED 103°c ✓ Dissolved 180°c _____ Total 103°c _____

M. Rubinstein 5/3/85

Job #	NAME	DISH #	SAMPLE VOL.		ppm
0739 A	KODAK	BUG	300 ml	Gross 18 · 4694 Tare 18 · 4682 Diff .0012	4 ✓
0739 B	KODAK	6	200 ml	Gross 17 · 8814 Tare 17 · 8716 Diff .0098	49 ✓
0739 ? QC	KODAK	PDD	200 ml	Gross 19 · 0262 Tare 19 · 0169 Diff .0093	46 ✓
0739 C	KODAK	F3	400 ml	Gross 18 · 9012 Tare 18 · 8989 Diff .0023	5.8 ✓
0739 D	KODAK	CC	400 ml	Gross 19 · 1604 Tare 19 · 1586 Diff .0018	4.5 ✓
0739 E	KODAK	E7	300 ml	Gross 18 · 8927 Tare 18 · 8896 Diff .0031	10 ✓
0739 F	KODAK	50	200 ml	Gross 17 · 6259 Tare 17 · 6232 Diff .0027	14 ✓
0739 G	KODAK	11	300 ml	Gross 19 · 6345 Tare 19 · 6309 Diff .0036	12 ✓

general testing corporation

SOLIDS

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

SOLIDS SUSPENDED 103°c ✓ Dissolved 180°c _____ Total 103°c _____

M. Kimbrough 5/3/05

Job #	NAME	DISH #	SAMPLE VOL.		ppm
50705 C	Dalton & Dalton	T	400 ml	Gross 16 · 9684 Tare 16 · 9668 Diff · 0016	4 ✓
50705 D	"	+	400 ml	Gross 17 · 5514 Tare 17 · 5497 Diff · 0017	4.2 ✓
50705 E	"	1011	200 ml	Gross 17 · 9554 Tare 17 · 9544 Diff · 0010	5 ✓
50705 E	"	52	400 ml	Gross 17 · 8123 Tare 17 · 8109 Diff · 0014	3.5 ✓
50705 G	"	4	400 ml	Gross 16 · 9504 Tare 16 · 9493 Diff .0011	2.8 ✓
50705 E dup	"	60	200 ml	Gross 17 · 3205 Tare 17 · 3193 Diff · 0012	6 ✓
50738 A	KODAK	KK	5.03 gm	Gross 18 · 8974 Tare 18 · 8783 Diff · 0191	3797.2 3800 ✓
50738 B	KODAK	511	4.90 gm	Gross 19 · 3298 Tare 19 · 3064 Diff · 0234	4775.5 4800 ✓

general testing corporation

SOLIDS

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-0760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

SOLIDS SUSPENDED 103°c ✓ Dissolved 180°c _____ Total 103°c _____

M. Rubinstein 5/3/85

Job #	NAME	DISH #	SAMPLE VOL.		ppm
50738 E	KODAK	510	4.93 gm	Gross 19 · 2679 Tare 19 · 2482 Diff · 0197	3955.8 4000
50738 F	KODAK	F	5.18 gm	Gross 17 · 3646 Tare 17 · 3388 Diff · 0258	4960.7 5000
50738 F DUP	KODAK	C8	4.94 gm	Gross 18 · 7421 Tare 18 · 7183 Diff · 0238	4817.8 4800
EPA#2		503	100 ml	Gross 19 · 1488 Tare 19 · 1386 Diff · 0102	102
~~DUP~~				Gross . Tare . Diff .	
				Gross . Tare . Diff .	
				Gross . Tare . Diff .	
				Gross . Tare . Diff .	

$\frac{d.f.}{\# gm} \times 10^6$

QUALITY CONTROL

PRECISION:

	High Level	Low Level
Warning Limit:		
Critical Limit:		

	First Value	Second Value	A-B	A+B	$(\frac{A-B}{A+B})$	$\frac{A-B}{Avg} \times 100$
233-F	4980.7	4817.8	162.9	4899.25		3.3%
705-E	5	6	1	5.5		1.80
739-B	49	46	3	47.5		6.3
737-C	42	42	0	84		0.0

SPIKED RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

Sample Value	Spiked Value	Amount Added	Amount Recovery	% Recovery

EPA STANDARD RECOVERY:

	UCL	UWL	LCL	LWL
High Level				
Low Level				

	True Value	Analytical Value	% Recovery
PA#2	108	102	94.4%
PA#2	108	101	93.5

general testing corporation

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

TARE WEIGHTS

Date 4/30/95
Analyst: M. Rubinstein
Crucible 104°C ✓ w/cover
Crucible 550°C
Dish 180°C
Dish 104°C
Dish 550°C
C/O Flask

ID NUMBER	WEIGHT
1011	17.9544
4	17.5497
160	17.3193
FH	19.3104
52	17.5109
KK	18.3983
C8	18.7183
503	19.1386
502	19.0729
F	17.3388
510	19.2482
511	19.3064
T	16.9663
H	16.9493

ID NUMBER	WEIGHT
no name	17.6075
110	17.1733
D5	18.4345
DH	18.8491
G	17.2346
1	19.9620
19	16.5993
D3	18.3205
201	19.7723
KKK	18.9125
E9	18.5290
B	16.6735
E7	18.8896
CC	19.1536
F3	18.8939
10	19.6079
506	18.9641
90	19.4352
DD	18.9929
50	17.6232
C6	18.2837
C5	18.9397

	NWR BALANCE (Left)			FISHER BALANCE (Right)			
DATE & INITIALS	10 mg	1.0 gm	10.0 gm	DATE & INITIALS	10.0 mg	1.0 gm	10.0 gm
				5/1/85 AK	0.0100	1.0000	10.0000
				3/13/85 AK	0.0100	1.0000	10.0000
				3/14/85 AK	0.0100	1.0000	10.0000
				3/15/85 AK	0.0100	1.0000	10.0000
				3/18/85 AK	0.0100	1.0000	10.0000
				3/19/85 RL	0.0100	1.0000	10.0000
				3-20-85 RL	0.0100	1.0000	10.0000
				3/21/85 AK	0.0100	1.0000	10.0000
				3-22-85 RL	0.0100	1.0000	10.0000
				3/25/85 AK	0.0100	1.0000	10.0000
				3-26-85 RL	0.0100	1.0000	10.0000
				3/27/85 AK	0.0100	1.0000	10.0000
				3/28/85 AK	0.0100	1.0000	10.0000
				3/29/85 AK	0.0100	1.0000	10.0000
				4/1/85 AK	0.0100	1.0000	10.0000
				4/2/85 AK	0.0100	1.0000	10.0000
				4/3/85 AK	0.0100	1.0000	10.0000
				4/4/85 AK	0.0100	1.0000	10.0000
				4/5/85 AK	0.0100	1.0000	10.0000
				4/8/85 AK	0.0100	1.0000	10.0000
				4/11/85 AK	0.0100	1.0000	10.0000
				4/12/85 AK	0.0100	1.0000	10.0000
				4/14/85 AK	0.0100	1.0000	10.0000
				4/16/85 AK	0.0100	1.0000	10.0000
				4/17/85 AK	0.0100	1.0000	10.0000
				4/18/85 AK	0.0100	1.0000	10.0000
				4/19/85 KB	0.0100	1.0000	10.0000
				4/20/85 KB	0.0100	1.0000	10.0000
				4/29/85 AK	0.0100	1.0000	10.0000
				4/30/85 AK	0.0100	1.0000	10.0000
				5/1/85 AK	0.0100	1.0000	10.0000
				5/2/85 AK	0.0100	1.0000	10.0000
				5/3/85 AK	0.0100	1.0000	10.0000
				5/4/85 AK	0.0100	1.0000	10.0000
				5/8/85 AK	0.0100	1.0000	10.0000
				5/10/85 AK	0.0100	1.0000	10.0000
				5/15/85 AK	0.0100	1.0000	10.0000
				5/16/85 MB	0.0103	1.0002	10.0000
				5/17/85 MB	0.0099	1.0005	10.0000

TEMPERATURE CHART

Daily Log

Type of Equipment or Instrument: New 105°C oven

Date	Initials	Reading	Date	Initials	Reading
4/24/85	MS	103°C			
4/24/85	AK	103°C			
4/25/85	AK	103°C			
4/29/85	AK	100°C			
4/30/85	AK	100°C			
5/1/85	AK	100°C			
5/2/85	AK	100°C			
5/3/85	AK	100°C			
5/6/85	AK	97°C			
5/7/85	AK	98°C			
5/9/85	AK	99°C			
5/14/85	MR	98°C			
5/16/85	MR	97°C			
5/17/85	MR	97.5°C			
5/20/85	AK	98°C			
5/21/85	AK	98°C			
~~5/23/85~~	~~AK~~				
5/24/85	AK	99°C			
5/31/85	KB	101°			
6/3/85	AK	99°C			
6/4/85	AK	103°C			
6/5/85	AK	103°C			
6/6/85	AK	100			
			105		

SECTION II
SUBPART D-10

RAW DATA FOR:

TOTAL ORGANIC CARBON

Date: 5/21/97
Analyst: TP/[illegible]
Reviewed: [illegible]

Standard Conc.	Millivolt Readings	Blank Millivolt Readings
50 ppm	349	16.1
"	364	31.0

Sample Size 1.004 ml Source of Blank Water Reagent Blk

Sample

No	Sample	Job #	Dilution	ppm TOC	XDIL.=Final ppm
1	Wm/inchawk	50744 A	None		3.3
2		"			3.3
4		B			33
5		"		Repeat	32
7		C		These	6.5
8		"		3 samples	8.5
10		D		(See Repeats	7.7
11		"		For results)	7.9
13		F			<2
14		"			<2
15		G			<2
17		" G			<2
19		H			3.6
20		"			3.3
22		I			11
23		"			11
25		J			13
26		"			15
28		K			16
29		"			17
31		L			11
32		"			11
34		M			3.1
35		"			3.6
37		N			15
38		"			13
		50744 E - NO Sample		-1910-	

Date: ____________

Analyst: ____________

Reviewed: ____________

Standard Conc.	Millivolt Readings	Blank Millivolt Readings

Sample Size ____________ Source of Blank Water ____________

No	Sample	Job #	Dilution	ppm TOC	XDIL.=Final ppm T	
46	URS/Dalton	50705 A	None		9.8	
47		"			9.9	
49		B			10.0	
50		"			9.9	
52		C			10.8	
53		"			10.7	
55		D			6.2	
56		"			6.3	
58		E			10.6	10.4
59		"			11.3	
61		F			11.4	11.5
62		"			11.6	
64		G			9.7	10.1
~~55~~ 65		"			10.5	
~~67~~						
~~68~~						
	WM/Mohawk	50744-C + dup			1.6	
	"	"			1.4	
	"	C spike			15.4	
	"	"			15.3	

-100

QUALITY CONTROL

EPA CHUNK SAMPLES (4.4-8.1) CONTROL LIMITS

EPA #	TRUE VALUE	MEAN RECOVERY	% RECOVERY
78243	6.1	7.0	115%
A	6.1	6.7	110%

ACCURACY: SPIKED RECVOERY ANALYSIS

Control Limit:
Warning Limit:

SAMPLE AND NUMBER	TOTAL REC.	AMT. in SAMPLE	AMT. ADDED	NET. REC.	% REC.
wm/mchunk 50744C	15.4	4.5	+ 10.0	10.9	109%
"	15.3	4.5	+ 10.0	10.8	108%

PRECISION: DUPLICATE ANALYSIS

Control Limit:
Warning Limit:

SAMPLE AND NUMBER	ORIGINAL VALUE (A)	DUPLICATE VALUE (B)	% RELATIVE ERROR $\frac{\lvert A-B \rvert \times 200}{(A+B)}$
wm/mchunk 50744C	6.5	1.6	must repeat original values.
"	8.5	1.4	

Reagent Blank (1)

SPL# 00019	02:57:52	TIC = 1.80000 mV	0.28504 ug C	0.28391 ppm
		+ 1.4		
SPL# 00019	03:02:52	TOC = -13.8000 mV	-2.18336 ug C	-2.17666 ppm
		+ 45.0		
SPL# 00020	03:05:57	TIC = 4.00000 mV	0.63343 ug C	0.63091 ppm
		(2)		
SPL# 00020	03:10:57	TOC = 16.3000 mV	2.58126 ug C	2.57098 ppm
SPL# 00021	03:17:18	TIC = 1.90000 mV	0.28302 ug C	0.28189 ppm

50ppm std

SPL# 00021	03:22:18	(1) TOC = 349.300 mV	52.0322 ug C	51.8249 ppm
SPL# 00022	03:25:23	TIC = 2.80000 mV	0.41709 ug C	0.41543 ppm
SPL# 00022	03:30:23	(2) TOC = 369.200 mV	54.9966 ug C	54.7774 ppm

use EPA WP 782 d 3 (6.1 - 4.4 - 8.1)

SPL# 00023	03:35:25	TIC = 2.10000 mV	0.29364 ug C	0.29247 ppm
SPL# 00023	03:40:25	TOC = 69.8000 mV	9.76034 ug C	9.72145 ppm
SPL# 00024	03:43:30	TIC = 1.80000 mV	0.25169 ug C	0.25069 ppm
SPL# 00024	03:48:30	TOC = 57.1000 mV	7.98446 ug C	7.95264 ppm

Reset TOC Zero

SPL# 00025	03:51:35	TIC = 1.70000 mV	0.23771 ug C	0.23676 ppm
SPL# 00025	03:56:35	TOC = 50.4000 mV	7.04758 ug C	7.01950 ppm
SPL# 00026	03:59:40	TIC = 1.80000 mV	0.25169 ug C	0.25069 ppm
SPL# 00026	04:04:40	TOC = 48.3000 mV	6.75393 ug C	6.72702 ppm

*** MODEL 700 TOC ANALYZER ***

CALIBRATION FACTORS:

IC BLANK= 4.00000 mV OC BLANK= 23.0000 mV I.R. OFFSET= 1.25000 mV

STD. MASS= 50.2000 ug STD. AVG.= 359.000 mV SCALING FACTOR= 0.13983 ug/mV

VOLUMES:

SPL. VOL.= 1.00400 ml ACID VOL.= 00002 x100ul OXID. VOL.= 00005 x100ul

LOW/HIGH ALARM SETPOINTS (ppm C):

TIC LO= 000000 TIC HI= 000000 TOC LO= 000000 TOC HI= 000000

TIME PRESETS:

EXTD. REACTION TIME 00:00:00 EXTD. PURGE TIME 00:00:00

LAST ANALYSIS RESULTS:

SPL# 00027	04:05:51	TIC =	1.80000 mV	0.25169 ug C	0.25069 ppm
SPL# 00027	04:05:53	TOC =	48.3000 mV	6.75393 ug C	6.72702 ppm
SPL# 00001	04:15:36	TIC =	98.6000 mV	13.7875 ug C	13.7326 ppm
SPL# 00001	04:20:36	TOC =	23.6000 mV	3.30006 ug C	3.28691 ppm
SPL# 00002	04:23:41	TIC =	97.0000 mV	13.5638 ug C	13.5097 ppm
SPL# 00002	04:28:41	TOC =	23.7000 mV	3.31404 ug C	3.30084 ppm
SPL# 00003	04:31:46	TIC =	1.40000 mV	0.19576 ug C	0.19498 ppm
SPL# 00003	04:36:46	TOC =	-8.40000 mV	-1.17460 ug C	-1.16992 ppm
SPL# 00004	04:39:51	TIC =	120.700 mV	16.8770 ug C	16.8106 ppm
SPL# 00004	04:44:51	TOC =	233.900 mV	32.7069 ug C	32.5766 ppm
SPL# 00005	04:47:56	TIC =	126.000 mV	17.6189 ug C	17.5487 ppm
SPL# 00005	04:52:56	TOC =	230.100 mV	32.1755 ug C	32.0474 ppm
SPL# 00006	04:56:01	TIC =	9.00000 mV	1.25850 ug C	1.25348 ppm
EPL# 00006	05:01:01	TOC =	320.300 mV	44.7885 ug C	44.6100 ppm

SPL# 00007	05:04:06	TIC =	47.8000 mV	6.68401 ug C	

SPL# 00008	05:12:11	TIC =	46.7000 mV	6.53020 ug C	6.50418 ppm
SPL# 00008	05:17:11	TOC =	60.7000 mV	8.48786 ug C	8.45404 ppm
SPL# 00009	05:20:16	TIC =	3.00000 mV	0.41949 ug C	0.41782 ppm
SPL# 00009	05:25:16	TOC =	59.9000 mV	8.37599 ug C	8.34262 ppm
SPL# 00010	05:28:21	TIC =	264.900 mV	37.0417 ug C	36.8941 ppm
SPL# 00010	05:33:21	TOC =	55.6000 mV	7.77471 ug C	7.74373 ppm
SPL# 00011	05:36:26	TIC =	261.200 mV	36.5243 ug C	36.3788 ppm
SPL# 00011	05:41:26	TOC =	56.6000 mV	7.91454 ug C	7.88301 ppm
SPL# 00012	05:44:31	TIC =	6.00000 mV	0.83899 ug C	0.83565 ppm
SPL# 00012	05:49:31	TOC =	-5.50000 mV	-0.76908 ug C	-0.76601 ppm
SPL# 00013	05:52:36	TIC =	218.200 mV	30.5115 ug C	30.3900 ppm
SPL# 00013	05:57:36	TOC =	1.50000 mV	0.20974 ug C	0.20891 ppm
SPL# 00014	06:00:41	TIC =	212.300 mV	29.6865 ug C	29.5682 ppm
SPL# 00014	06:05:41	TOC =	5.50000 mV	0.76908 ug C	0.76601 ppm
SPL# 00015	06:08:46	TIC =	5.60000 mV	0.78306 ug C	0.77994 ppm
SPL# 00015	06:13:46	TOC =	2.10000 mV	0.29364 ug C	0.29247 ppm
SPL# 00016	06:16:51	TIC =	239.200 mV	33.4480 ug C	33.3148 ppm
SPL# 00016	06:21:51	TOC =	11.3000 mV	1.58011 ug C	1.57382 ppm
SPL# 00017	06:24:56	TIC =	242.900 mV	33.9654 ug C	33.8301 ppm
SPL# 00017	06:29:56	TOC =	8.90000 mV	1.24451 ug C	1.23955 ppm
SPL# 00018	06:33:01	TIC =	7.70000 mV	1.07671 ug C	1.07242 ppm
SPL# 00018	06:38:01	TOC =	-8.70000 mV	-1.21655 ug C	-1.21170 ppm
SPL# 00019	06:41:06	TIC =	246.800 mV	34.5108 ug C	34.3733 ppm
SPL# 00019	06:46:06	TOC =	25.8000 mV	3.60769 ug C	3.59331 ppm
SPL# 00020	06:49:11	TIC =	248.100 mV	34.6925 ug C	34.5543 ppm
SPL# 00020	06:54:11	TOC =	23.4000 mV	3.27209 ug C	3.25905 ppm
SPL# 00021	06:57:16	TIC =	6.30000 mV	0.88094 ug C	0.87743 ppm
SPL# 00021	07:02:16	TOC =	-9.70000 mV	-1.35638 ug C	-1.35097 ppm
SPL# 00022	07:05:21	TIC =	158.500 mV	22.1635 ug C	22.0752 ppm
SPL# 00022	07:10:21	TOC =	76.0000 mV	10.6273 ug C	10.5850 ppm

SPL# 00024	07:21:31	BL	TIC = 5.50000 mV	0.76908 ug C	0.76691 ppm
SPL# 00024	07:26:31		TOC = -7.30000 mV	-1.02078 ug C	-1.01671 ppm
SPL# 00025	07:29:36		TIC = 218.000 mV	30.4836 ug C	30.3621 ppm
SPL# 00025	07:34:36	TH 5	TOC = 95.7000 mV	13.3820 ug C	13.3297 ppm
SPL# 00026	07:37:41		TIC = 227.000 mV	31.7421 ug C	31.6156 ppm
SPL# 00026	07:42:41		TOC = 104.700 mV	14.6405 ug C	14.5822 ppm
SPL# 00027	07:45:46	BLK	TIC = 6.40000 mV	0.89493 ug C	0.89136 ppm
SPL# 00027	07:50:46		TOC = -4.40000 mV	-0.61526 ug C	-0.61281 ppm
SPL# 00028	07:53:51		TIC = 15.5000 mV	2.16741 ug C	2.15877 ppm
SPL# 00028	07:58:51	TH K	TOC = 116.200 mV	16.2486 ug C	16.1838 ppm
SPL# 00029	08:01:56		TIC = 13.1000 mV	1.83181 ug C	1.82451 ppm
SPL# 00029	08:06:56		TOC = 120.400 mV	16.8359 ug C	16.7688 ppm
SPL# 00030	08:10:01		TIC = 2.10000 mV	0.29364 ug C	0.29247 ppm
SPL# 00030	08:15:01	BL	TOC = -5.20000 mV	-0.72713 ug C	-0.72423 ppm
SPL# 00031	08:18:06		TIC = 92.2000 mV	12.8926 ug C	12.8412 ppm
SPL# 00031	08:23:06	TH L	TOC = 79.1000 mV	11.0608 ug C	11.0167 ppm
SPL# 00032	08:26:11		TIC = 96.6000 mV	13.5079 ug C	13.4540 ppm
SPL# 00032	08:31:11		TOC = 76.0000 mV	10.7392 ug C	10.6964 ppm
SPL# 00033	08:34:16		TIC = 3.00000 mV	0.41949 ug C	0.41782 ppm
SPL# 00033	08:39:16	BL	TOC = -7.10000 mV	-0.99281 ug C	-0.98885 ppm
SPL# 00034	08:42:21	TH	TIC = 2.00000 mV	0.27966 ug C	0.27855 ppm
SPL# 00034	08:47:21	M	TOC = 22.3000 mV	3.11827 ug C	3.10585 ppm
SPL# 00035	08:50:26		TIC = 2.10000 mV	0.29364 ug C	0.29247 ppm
SPL# 00035	08:55:26		TOC = 25.7000 mV	3.59370 ug C	3.57939 ppm
SPL# 00036	08:58:31		TIC = 0.30000 mV	0.04194 ug C	0.04178 ppm
SPL# 00036	09:03:31	BLK	TOC = -8.20000 mV	-1.14663 ug C	-1.14206 ppm
SPL# 00037	09:06:36		TIC = 227.600 mV	31.8260 ug C	31.6992 ppm
SPL# 00037	09:11:36	TH N	TOC = 105.600 mV	14.7664 ug C	14.7075 ppm
SPL# 00038	09:14:41		TIC = 220.200 mV	30.7912 ug C	30.6685 ppm
SPL# 00038	09:19:41		TOC = 96.3000 mV	13.4659 ug C	13.4123 ppm
SPL# 00039	09:22:46		TIC = 4.70000 mV	0.65721 ug C	0.65459 ppm
SPL# 00039	09:27:46	BLK	TOC = -6.60000 mV	-0.92289 ug C	-0.91922 ppm
SPL# 00040	09:30:51		TIC = 29.5000 mV	4.12507 ug C	4.10863 ppm
SPL# 00040	09:35:51	TH	TOC = 11.3000 mV	1.58011 ug C	1.57382 ppm
SPL# 00041	09:38:56	C-DUP	TIC = 28.4000 mV	3.97125 ug C	3.95543 ppm
SPL# 00041	09:43:56		TOC = 9.90000 mV	1.38435 ug C	1.37883 ppm
SPL# 00042	09:47:01	BL	TIC = 1.50000 mV	0.20974 ug C	0.20891 ppm
SPL# 00042	09:52:01		TOC = -7.80000 mV	-1.09070 ug C	-1.08635 ppm
SPL# 00043	09:55:06		TIC = 18.8000 mV	2.62886 ug C	2.61838 ppm
SPL# 00043	10:00:06	TH	TOC = 110.600 mV	15.4655 ug C	15.4039 ppm
SPL# 00044	10:03:11	C-Spike	TIC = 15.6000 mV	2.18139 ug C	2.17270 ppm
SPL# 00044	10:08:11		TOC = 110.200 mV	15.4096 ug C	15.3482 ppm

SPL# 00046	10:19:21	TIC =	1.50000 mV	0.20974 ug C	0.20891 ppm
SPL# 00046	10:24:21	TOC =	70.3000 mV	9.83025 ug C	9.79109 ppm
SPL# 00047	10:27:26	TIC =	1.70000 mV	0.23771 ug C	0.23676 ppm
SPL# 00047	10:32:26	TOC =	70.8000 mV	9.90017 ug C	9.86072 ppm
SPL# 00048	10:35:31	TIC =	0.30000 mV	0.04194 ug C	0.04178 ppm
SPL# 00048	10:40:31	TOC =	-5.70000 mV	-0.79704 ug C	-0.79387 ppm
SPL# 00049	10:43:36	TIC =	3.80000 mV	0.53136 ug C	0.52924 ppm
SPL# 00049	10:48:36	TOC =	72.1000 mV	10.0819 ug C	10.0418 ppm
SPL# 00050	10:51:41	TIC =	4.20000 mV	0.58729 ug C	0.58495 ppm
SPL# 00050	10:56:41	TOC =	71.0000 mV	9.92813 ug C	9.88858 ppm
SPL# 00051	10:59:46	TIC =	0.50000 mV	0.06991 ug C	0.06963 ppm
SPL# 00051	11:04:46	TOC =	-7.60000 mV	-1.06273 ug C	-1.05850 ppm
SPL# 00052	11:07:51	TIC =	93.5000 mV	13.0744 ug C	13.0223 ppm
SPL# 00052	11:12:51	TOC =	77.6000 mV	10.8510 ug C	10.8078 ppm
SPL# 00053	11:15:56	TIC =	100.200 mV	14.0113 ug C	13.9554 ppm
SPL# 00053	11:20:56	TOC =	76.7000 mV	10.7252 ug C	10.6825 ppm
SPL# 00054	11:24:01	TIC =	2.50000 mV	0.34958 ug C	0.34818 ppm
SPL# 00054	11:29:01	TOC =	-6.60000 mV	-0.92289 ug C	-0.91922 ppm
SPL# 00055	11:32:06	TIC =	2.60000 mV	0.36356 ug C	0.36211 ppm
SPL# 00055	11:37:06	TOC =	44.3000 mV	6.19460 ug C	6.16992 ppm
SPL# 00056	11:40:11	TIC =	2.50000 mV	0.34958 ug C	0.34818 ppm
SPL# 00056	11:45:11	TOC =	45.1000 mV	6.30646 ug C	6.28134 ppm
SPL# 00057	11:48:16	TIC =	0.20000 mV	0.02796 ug C	0.02785 ppm
SPL# 00057	11:53:16	TOC =	-4.90000 mV	-0.68518 ug C	-0.68245 ppm
SPL# 00058	11:56:21	TIC =	2.00000 mV	0.27966 ug C	0.27855 ppm
SPL# 00058	12:01:21	TOC =	75.9000 mV	10.6133 ug C	10.5710 ppm
SPL# 00059	12:04:26	TIC =	2.10000 mV	0.29364 ug C	0.29247 ppm
SPL# 00059	12:09:26	TOC =	81.4000 mV	11.3824 ug C	11.3370 ppm
SPL# 00060	12:12:31	TIC =	0.09999 mV	0.01398 ug C	0.01392 ppm
SPL# 00060	12:17:31	TOC =	-7.00000 mV	-0.97883 ug C	-0.97493 ppm
SPL# 00061	12:20:36	TIC =	1.10000 mV	0.15381 ug C	0.15320 ppm
SPL# 00061	12:25:36	TOC =	82.2000 mV	11.4943 ug C	11.4485 ppm
SPL# 00062	12:28:41	TIC =	1.20000 mV	0.16779 ug C	0.16713 ppm
SPL# 00062	12:33:41	TOC =	83.3000 mV	11.6481 ug C	11.6017 ppm
SPL# 00063	12:36:46	TIC =	0.20000 mV	0.02796 ug C	0.02785 ppm
SPL# 00063	12:41:46	TOC =	-6.10000 mV	-0.85298 ug C	-0.84958 ppm
SPL# 00064	12:44:51	TIC =	0.70000 mV	0.09788 ug C	0.09749 ppm
SPL# 00064	12:49:51	TOC =	69.5000 mV	9.71838 ug C	9.67967 ppm
SPL# 00065	12:52:56	TIC =	1.70000 mV	0.23771 ug C	0.23676 ppm
SPL# 00065	12:57:56	TOC =	75.5000 mV	10.5574 ug C	10.5153 ppm
SPL# 00066	13:01:01	TIC =	0.20000 mV	0.02796 ug C	0.02785 ppm
SPL# 00066	13:06:01	TOC =	-7.40000 mV	-1.03476 ug C	-1.03064 ppm

705 A
BL
705 B
BL
705 C
BL
705 D
BL
705 E
BL
705 F
BL
705 G
BL

TOC ANALYSIS SHEET

Date: 5/22/85
Analyst: MLP
Reviewed:

Standard Conc.	Millivolt Readings		Blank Millivolt Readings	
50 ppm	517	Ave: 497.4	water Blk	Reagent Blk
	514	466	17.8	0.7
	440		18.3	11.3
	494		14.4	3.2
	552		Ave: 11	6.1

Sample Size

Source of Blank Water: CH organic free

Sample No	Sample	Job #	Dilution	ppm TOC	XDIL.=Final ppm T
1	WM/Mohawk	50744 C repeat	None	28	28
2		"		25	25
4		C spike repeat			13.4
5		"			14.1
7		D repeat			5.2
8		"			—
10		EPA			5.0
11		"			7.3
13	HRB/Dalton	50705 B -QC			9.1
14		"			9.1
16		B spike			17.1
17		"			17.8
19		Blank Spike			4.5
20		"			4.4
22	WM/Mohawk	50744 B repeat	(10)	51.1	510
23		"	"	53.2	530
25	NMI	50775 A	None		6.5
26		"			5.7
27		B			1.8 <2
29		"			1.8 <2
31		C			22
32		"			24
34		D			25
35		"			26
37		50 ppm Std		42.4	→ 47.9
38		"		53.3	

TOC ANALYSIS SHEET

Date: _____

Analyst: _____

Reviewed: _____

Standard Conc.	Millivolt Readings	Blank Millivolt Readings

Sample Size _____ Source of Blank Water _____

No	Sample	Job #	Dilution	ppm TOC	XDIL.=Final ppm T
40	UMI	50775 E	None		6.7
41		"			7.1
43		F			11.5
44		"			11.7
46		G			12.3
47		"			12.4
49		H			3.1
50		"			3.0
52		H dup			3.0
53		"			2.9
55		H spike			12.5
56		"			13.9
58	Xerox	50776 A			<2 <2
59		"			<2
61		B			<2 <2
62		"			3.5
64		C			<2 <2
65		"			<2
67		D			<2 <2
68		"			<2
70		E			<2 <2
71		"			<2
73		C dup			<2
74		"			<2
76		C Spike			9.4
77		"			9.7

TOC ANALYSIS SHEET

Date: _____

Analyst: _____

Reviewed: _____

Standard Conc.	Millivolt Readings	Blank Millivolt Readings

Sample Size _____ Source of Blank Water _____

No	Sample	Job #	Dilution	ppm TOC	XDIL.=Final ppm T
79	Xerox	50778 EPA		14.6	120%
81		"		14.6	120%
82		50 ppm Std		40	95%
83		"		53	95%
	Xerox	50805 B-	TOC Not Required		

QUALITY CONTROL

EPA CHECK SAMPLES — CONTROL LIMITS:

EPA #	TRUE VALUE	MEAN RECOVERY	% RECOVERY
750 53	6.1	8.0	131%
"	6.1	7.7	126%
752 + 3 x 2	12.2	14.6	120%
"	12.2	14.6	120%

ACCURACY: SPIKED RECOVERY ANALYSIS — Control Limit: ____ Warning Limit: ____

SAMPLE AND NUMBER	TOTAL REC.	AMT. in SAMPLE	AMT. ADDED	NET. REC.	% REC.
wm/mebank 30744C	13.7	2.6	8.0	11.1	139%
WRS Dalton 30205B	17.4	9.1	8.0	8.3	104%
Blank spike	9.4	—	8.0	9.4	117%
Blank Spike	47.9	-	50.0	47.9	96%
wm 50775H	13.2	3.1	8.0	10.1	126%
Xerox 50776C	9.5	< 2	8.0	9.5	119%

PRECISION: DUPLICATE ANALYSIS — Control Limit: ____ Warning Limit: ____

-

SAMPLE AND NUMBER	ORIGINAL VALUE (A)	DUPLICATE VALUE (B)	% RELATIVE ERROR $\frac{\lvert A-B \rvert \times 200}{(A+B)}$
wm/mebank 30744C	1.5	2.6	55%
WRS/Dalton 30205B	10.6	9.1	9.4%
wm 50775H	3.0	3.1	3.3%
Xerox 50776C	< 2	< 2	NC

5/22/95

TOC-BLK · 17mV

50ppm - 359mV

Reset IR - Zero

SPL# 00001	22:09:14		TIC = 26.3000 mV	3.67760 ug C	3.66295 ppm
SPL# 00001	22:16:46		TOC = -10.0000 mV	-1.39833 ug C	-1.39276 ppm
SPL# 00001	22:24:16	BL	TIC = 2.10000 mV	0.29364 ug C	0.29247 ppm
SPL# 00001	22:29:16		TOC = -12.6000 mV	-1.76189 ug C	-1.75487 ppm
SPL# 00002	22:32:21	BL	TIC = 1.60000 mV	0.22373 ug C	0.22284 ppm
SPL# 00002	22:37:21		TOC = -10.3000 mV	-1.44028 ug C	-1.43454 ppm
SPL# 00003	22:41:05	BL	TIC = 0.50000 mV	0.06991 ug C	0.06963 ppm
SPL# 00003	22:46:05		TOC = 7.80000 mV	1.09070 ug C	1.08635 ppm

set BLK to 6 mV

SPL# 00003	22:52:48	50ppm(1)	TIC = 3.10000 mV	0.43348 ug C	0.43175 ppm
SPL# 00003	22:57:48		TOC = 245.500 mV	34.3290 ug C	34.1922 ppm
SPL# 00004	23:00:53	(2)	TIC = 7.40000 mV	1.03476 ug C	1.03064 ppm
SPL# 00004	23:05:53		TOC = 508.600 mV	71.1190 ug C	70.8357 ppm
SPL# 00005	23:08:58	(3)	TIC = 5.50000 mV	0.76908 ug C	0.76601 ppm
SPL# 00005	23:13:58		TOC = 511.900 mV	71.5805 ug C	71.2953 ppm
SPL# 00006	23:17:03	W.BL.	TIC = 4.90080 mV	0.68518 ug C	0.68245 ppm
SPL# 00006	23:22:03		TOC = 26.6000 mV	3.71955 ug C	3.70474 ppm
SPL# 00007	23:25:08	W.BL.	TIC = 3.60000 mV	0.50339 ug C	0.50139 ppm
SPL# 00007	23:30:08		TOC = 13.3000 mV	1.85978 ug C	1.85237 ppm
SPL# 00008	23:33:13	W.BL.	TIC = 3.30000 mV	0.46144 ug C	0.45961 ppm
SPL# 00008	23:38:13		TOC = 8.40000 mV	1.17460 ug C	1.16992 ppm
SPL# 00009	23:41:18		TIC = 3.20000 mV	0.44746 ug C	0.44568 ppm

50ppm

SPL# 00010	23:49:23	TIC =	5.70000 mV	0.79704 ug C	0.79387 ppm
SPL# 00010	23:54:23	TOC =	488.400 mV	60.2944 ug C	60.0223 ppm
SPL# 00011	23:57:20	TIC =	5.20000 mV	0.72713 ug C	0.72423 ppm
SPL# 00011	00:02:20	TOC =	446.100 mV	62.3794 ug C	62.1309 ppm

Set B/K – 16 mV

50ppm – 467mV

*** MODEL 700 TOC ANALYZER ***

CALIBRATION FACTORS:

IC BLANK= 5.00000 mV   OC BLANK= 16.0000 mV   I.R. OFFSET= 13.9500 mV
STD. MASS= 50.2000 ug   STD. AVG.= 467.000 mV   SCALING FACTOR= 0.10749 ug/mV

VOLUMES:

SPL. VOL.= 1.00400 ml   ACID VOL.= 00002 x100ul   OXID. VOL.= 00005 x100ul

LOW/HIGH ALARM SETPOINTS (ppm C):

TIC LO= 000000   TIC HI= 000000   TOC LO= 000000   TOC HI= 000000

TIME PRESETS:

EXTD. REACTION TIME 00:00:00   EXTD. PURGE TIME 00:00:00

LAST ANALYSIS RESULTS:

SPL# 00011	00:07:16	50ppm	TIC =	5.20000 mV	0.72713 ug C	0.72423 ppm
SPL# 00011	00:07:17		TOC =	446.100 mV	62.3794 ug C	62.1309 ppm
SPL# 00012	00:10:44	R.BL	TIC =	-1.40000 mV	-0.15049 ug C	-0.14989 ppm
SPL# 00012	00:15:44		TOC =	5.70000 mV	0.61272 ug C	0.61027 ppm
SPL# 00013	00:18:49	R.BL	TIC =	-1.50000 mV	-0.16124 ug C	-0.16060 ppm
SPL# 00013	00:23:49		TOC =	-5.70000 mV	-0.61272 ug C	-0.61027 ppm
SPL# 00014	00:26:54	R.BL	TIC =	-1.60000 mV	-0.17199 ug C	-0.17130 ppm
SPL# 00014	00:31:54		TOC =	-7.80000 mV	-0.83845 ug C	-0.83511 ppm
SPL# 00015	00:37:11	R.BL	TIC =	-1.10000 mV	-0.11824 ug C	-0.11777 ppm
SPL# 00015	00:42:11		TOC =	-9.90000 mV	-1.06420 ug C	-1.05996 ppm

*** MODEL 700 TOC ANALYZER ***

CALIBRATION FACTORS:

IC BLANK= 4.00000 mV OC BLANK= 11.0000 mV I.R. OFFSET= 12.9000 mV
STD. MASS= 50.2000 ug STD. AVG.= 466.000 mV SCALING FACTOR= 0.10772 ug/mV

VOLUMES:

SPL. VOL.= 1.00400 ml ACID VOL.= 00002 x100ul OXID. VOL.= 00005 x100ul

LOW/HIGH ALARM SETPOINTS (ppm C):

TIC LO= 000000 TIC HI= 000000 TOC LO= 000000 TOC HI= 000000

TIME PRESETS:

EXTD. REACTION TIME 00:00:00 EXTD. PURGE TIME 00:00:00

LAST ANALYSIS RESULTS:

SPL# 00001	00:49:31	TIC =	-1.10000 mV	-0.11824 ug C	-0.11777 ppm
SPL# 00001	00:49:32	TOC =	-9.90000 mV	-1.06420 ug C	-1.05996 ppm
SPL# 00001	00:51:55	TIC =	3.60000 mV	0.38781 ug C	0.38626 ppm
SPL# 00001	00:56:55	TOC =	26.4000 mV	2.84395 ug C	2.83262 ppm
SPL# 00002	01:00:00	TIC =	3.80000 mV	0.40935 ug C	0.40772 ppm
SPL# 00002	01:05:00	TOC =	23.0000 mV	2.47760 ug C	2.46781 ppm
SPL# 00003	01:08:05	TIC =	0.40000 mV	0.04309 ug C	0.04291 ppm
SPL# 00003	01:13:05	TOC =	5.80080 mV	0.62480 ug C	0.62231 ppm
SPL# 00004	01:16:10	TIC =	2.40000 mV	0.25854 ug C	0.25751 ppm
SPL# 00004	01:21:10	TOC =	124.900 mV	13.4549 ug C	13.4013 ppm
SPL# 00005	01:24:15	TIC =	2.90000 mV	0.31240 ug C	0.31115 ppm
SPL# 00005	01:29:15	TOC =	131.600 mV	14.1767 ug C	14.1202 ppm
SPL# 00006	01:32:20	TIC =	2.10000 mV	0.22623 ug C	0.22532 ppm
SPL# 00006	01:37:20	TOC =	3.90000 mV	0.42012 ug C	0.41845 ppm
SPL# 00007	01:40:25	TIC =	180.500 mV	19.4444 ug C	19.3670 ppm
SPL# 00007	01:55:08	TIC =	156.300 mV	16.8375 ug C	16.7704 ppm
SPL# 00007	02:00:08	TOC =	48.1000 mV	5.18159 ug C	5.16094 ppm
SPL # 00008	02:06:20	TIC =	683.700 mV	73.6518 ug C	73.3584 ppm

SPL# 00009	02:14:25	3 L	TIC =	6.00000 mV	0.64635 ug C	0.64377 ppm
SPL# 00009	02:19:25		TOC =	4.60000 mV	0.49553 ug C	0.49356 ppm
SPL# 00010	02:23:07	2PA	TIC =	2.70000 mV	0.29085 ug C	0.28970 ppm
SPL# 00010	02:28:07	(2.)	TOC =	74.8000 mV	8.05796 ug C	8.02575 ppm
SPL# 00011	02:31:12		TIC =	1.80000 mV	0.19390 ug C	0.19313 ppm
SPL# 00011	02:36:12		TOC =	68.1000 mV	7.33609 ug C	7.30687 ppm
SPL# 00012	02:39:17	5K	TIC =	1.20000 mV	0.12927 ug C	0.12875 ppm
SPL# 00012	02:44:17		TOC =	3.70000 mV	0.39858 ug C	0.39699 ppm
SPL# 00013	02:47:22	7SB	TIC =	4.80000 mV	0.51708 ug C	0.51502 ppm
SPL# 00013	02:52:22		TOC =	84.8000 mV	9.13511 ug C	9.09871 ppm
SPL# 00014	02:55:27	QC	TIC =	4.30000 mV	0.46321 ug C	0.46137 ppm
SPL# 00014	03:00:27		TOC =	85.0000 mV	9.15665 ug C	9.12017 ppm
SPL# 00015	03:03:32	BLK	TIC =	1.10000 mV	0.11849 ug C	0.11802 ppm
SPL# 00015	03:08:32		TOC =	2.70000 mV	0.29085 ug C	0.28970 ppm
SPL# 00016	03:11:37	5SB	TIC =	3.50000 mV	0.37703 ug C	0.37553 ppm
SPL# 00016	03:16:37	Spk	TOC =	159.600 mV	17.1930 ug C	17.1245 ppm
SPL# 00017	03:19:42		TIC =	3.80000 mV	0.40935 ug C	0.40772 ppm
SPL# 00017	03:24:42		TOC =	166.700 mV	17.9578 ug C	17.8863 ppm
SPL# 00018	03:27:47	BLK	TIC =	1.30000 mV	0.14004 ug C	0.13948 ppm
SPL# 00018	03:32:47		TOC =	6.80000 mV	0.73253 ug C	0.72961 ppm
SPL# 00019	03:35:52		TIC =	1.40000 mV	0.15081 ug C	0.15021 ppm
SPL# 00019	03:40:52	BLK	TOC =	88.4000 mV	9.52292 ug C	9.48498 ppm
SPL# 00020	03:43:57	Spike	TIC =	3.00000 mV	0.32317 ug C	0.32188 ppm
SPL# 00020	03:48:57		TOC =	87.4000 mV	9.41519 ug C	9.37768 ppm
SPL# 00021	03:52:02	BLK	TIC =	0.50000 mV	0.05386 ug C	0.05364 ppm
SPL# 00021	03:57:02		TOC =	2.30000 mV	0.24776 ug C	0.24678 ppm
SPL# 00022	04:00:07	MHB(10)	TIC =	10.2000 mV	1.09880 ug C	1.09442 ppm
SPL# 00022	04:05:07		TOC =	476.400 mV	51.3203 ug C	51.1159 ppm
SPL# 00023	04:08:12		TIC =	8.00000 mV	0.94798 ug C	0.94420 ppm
SPL# 00023	04:13:12		TOC =	496.000 mV	53.4318 ug C	53.2189 ppm
SPL# 00024	04:16:17	BLK	TIC =	1.70000 mV	0.18313 ug C	0.18240 ppm
SPL# 00024	04:21:17		TOC =	28.9000 mV	3.11326 ug C	3.10086 ppm
SPL# 00025	04:24:22	7SA	TIC =	62.2000 mV	6.70052 ug C	6.67382 ppm
SPL# 00025	04:29:22		TOC =	60.3000 mV	6.49584 ug C	6.46996 ppm
SPL# 00026	04:32:27		TIC =	60.4000 mV	6.50661 ug C	6.48069 ppm
SPL# 00026	04:37:27		TOC =	53.2000 mV	5.73099 ug C	5.70815 ppm
SPL# 00027	04:40:32	BLK	TIC =	0.87999 mV	0.09695 ug C	0.09656 ppm
SPL# 00027	04:45:32		TOC =	2.30000 mV	0.24776 ug C	0.24678 ppm
SPL# 00028	04:48:37	7SB	TIC =	57.4000 mV	6.18343 ug C	6.15880 ppm
SPL# 00028	04:53:37		TOC =	17.0000 mV	1.83133 ug C	1.82403 ppm
SPL# 00029	04:56:42		TIC =	58.5000 mV	6.30193 ug C	6.27682 ppm
SPL# 00029	05:01:42		TOC =	16.4000 mV	1.76670 ug C	1.75966 ppm
SPL# 00030	05:04:47	BLK	TIC =	0.70000 mV	0.07540 ug C	0.07510 ppm

SPL# 00031	05:12:52	775C	TIC =	715.900 mV	77.1206 ug C	76.8133 ppm
SPL# 00031	05:17:52		TOC =	205.400 mV	22.1268 ug C	22.0386 ppm
SPL# 00032	05:20:57		TIC =	849.100 mV	91.4696 ug C	91.1051 ppm
SPL# 00032	05:25:57		TOC =	221.000 mV	23.8073 ug C	23.7124 ppm
SPL# 00033	05:29:02	BLK	TIC =	13.3000 mV	1.43275 ug C	1.42704 ppm
SPL# 00033	05:34:02		TOC =	10.1000 mV	1.08803 ug C	1.08369 ppm
SPL# 00034	05:37:07	775D	TIC =	832.000 mV	89.6275 ug C	89.2704 ppm
SPL# 00034	05:42:07		TOC =	232.400 mV	25.0354 ug C	24.9356 ppm
SPL# 00035	05:45:12		TIC =	847.400 mV	91.2864 ug C	90.9227 ppm
SPL# 00035	05:50:12		TOC =	240.400 mV	25.8972 ug C	25.7940 ppm
SPL# 00036	05:53:17	BLK	TIC =	16.6000 mV	1.78824 ug C	1.78112 ppm
SPL# 00036	05:58:17		TOC =	7.30000 mV	0.78639 ug C	0.78326 ppm
SPL# 00037	06:01:22	SPIKE	TIC =	7.80000 mV	0.84025 ug C	0.83691 ppm
SPL# 00037	06:06:22	SPIKE	TOC =	395.300 mV	42.5838 ug C	42.4142 ppm
					474/50	= 96%
SPL# 00038	06:09:27		TIC =	7.10000 mV	0.76485 ug C	0.76180 ppm
SPL# 00038	06:14:27		TOC =	497.300 mV	53.5718 ug C	53.3584 ppm
SPL# 00039	06:17:32	BLK	TIC =	5.60000 mV	0.60326 ug C	0.60085 ppm
SPL# 00039	06:22:32		TOC =	16.2000 mV	1.74515 ug C	1.73820 ppm
SPL# 00040	06:25:37		TIC =	62.4000 mV	6.72206 ug C	6.69528 ppm
SPL# 00040	06:30:37	775E	TOC =	62.7000 mV	6.75438 ug C	6.72747 ppm
SPL# 00041	06:33:42		TIC =	56.6000 mV	6.09725 ug C	6.07296 ppm
SPL# 00041	06:38:42		TOC =	65.9000 mV	7.09910 ug C	7.07082 ppm
SPL# 00042	06:41:47	BLK	TIC =	2.40000 mV	0.25854 ug C	0.25751 ppm
SPL# 00042	06:46:47		TOC =	2.60000 mV	0.28008 ug C	0.27897 ppm
SPL# 00043	06:49:52		TIC =	217.800 mV	23.4626 ug C	23.3691 ppm
SPL# 00043	06:54:52	775F	TOC =	106.800 mV	11.5051 ug C	11.4592 ppm
SPL# 00044	06:57:57		TIC =	207.900 mV	22.3961 ug C	22.3069 ppm
SPL# 00044	07:02:57		TOC =	109.500 mV	11.7959 ug C	11.7489 ppm
SPL# 00045	07:06:02	BLK	TIC =	4.10000 mV	0.44167 ug C	0.43991 ppm
SPL# 00045	07:11:02		TOC =	4.70000 mV	0.50630 ug C	0.50429 ppm
SPL# 00046	07:14:07		TIC =	172.100 mV	18.5395 ug C	18.4657 ppm
SPL# 00046	07:19:07	775G	TOC =	114.200 mV	12.3022 ug C	12.2532 ppm
SPL# 00047	07:22:12		TIC =	172.400 mV	18.5718 ug C	18.4979 ppm
SPL# 00047	07:27:12		TOC =	115.900 mV	12.4854 ug C	12.4356 ppm
SPL# 00048	07:30:17		TIC =	3.80000 mV	0.40935 ug C	0.40772 ppm
SPL# 00048	07:35:17	BLK	TOC =	5.90000 mV	0.63557 ug C	0.63304 ppm
SPL# 00049	07:38:22		TIC =	2.30000 mV	0.24776 ug C	0.24678 ppm
SPL# 00049	07:43:22	775H	TOC =	29.1000 mV	3.13481 ug C	3.12232 ppm
SPL# 00050	07:46:27		TIC =	1.90000 mV	0.20467 ug C	0.20386 ppm
SPL# 00050	07:51:27		TOC =	27.8000 mV	2.99476 ug C	2.98283 ppm
SPL# 00051	07:54:32	BLK	TIC =	1.40000 mV	0.15081 ug C	0.15021 ppm
SPL# 00051	07:59:32		TOC =	3.60000 mV	0.38781 ug C	0.38626 ppm
SPL# 00052	08:02:37		TIC =	0.89999 mV	0.09695 ug C	0.09656 ppm

SPL# 00053	08:10:42		TIC =	1.20000 mV	0.12927 ug C	0.12875 ppm
SPL# 00053	08:15:42		TOC =	27.1000 mV	2.91936 ug C	2.90773 ppm
SPL# 00054	08:18:47		TIC =	0.40000 mV	0.04309 ug C	0.04291 ppm
SPL# 00054	08:23:47	Blk	TOC =	4.40000 mV	0.47399 ug C	0.47210 ppm
SPL# 00055	08:26:52		TIC =	1.20000 mV	0.12927 ug C	0.12875 ppm
SPL# 00055	08:31:52	777H	TOC =	116.300 mV	12.5500 ug C	12.5000 ppm
SPL# 00056	08:34:57	spike	TIC =	2.10000 mV	0.22622 ug C	0.22532 ppm
SPL# 00056	08:39:57	(+84?)	TOC =	129.900 mV	13.9935 ug C	13.9378 ppm
SPL# 00057	08:43:02		TIC =	0.29999 mV	0.03231 ug C	0.03218 ppm
SPL# 00057	08:48:02	Blk	TOC =	3.80000 mV	0.40935 ug C	0.40772 ppm
SPL# 00058	08:51:07	778A	TIC =	000000 mV	000000 ug C	000000 ppm
SPL# 00058	08:56:07		TOC =	0.70000 mV	0.07540 ug C	0.07510 ppm
SPL# 00059	08:59:12		TIC =	-0.20000 mV	-0.02154 ug C	-0.02145 ppm
SPL# 00059	09:04:12		TOC =	-0.90000 mV	-0.09695 ug C	-0.09656 ppm
SPL# 00060	09:07:17		TIC =	000000 mV	000000 ug C	000000 ppm
SPL# 00060	09:12:17	Blk	TOC =	1.60000 mV	0.17236 ug C	0.17167 ppm
SPL# 00061	09:15:22		TIC =	1.00000 mV	0.10772 ug C	0.10729 ppm
SPL# 00061	09:20:22	778B	TOC =	1.50000 mV	0.16158 ug C	0.16094 ppm
SPL# 00062	09:23:27		TIC =	2.10000 mV	0.22622 ug C	0.22532 ppm
SPL# 00062	09:28:27		TOC =	32.7000 mV	3.52262 ug C	3.50858 ppm
SPL# 00063	09:31:32		TIC =	-0.09999 mV	-0.01077 ug C	-0.01072 ppm
SPL# 00063	09:36:32	Blk	TOC =	2.40000 mV	0.25854 ug C	0.25751 ppm
SPL# 00064	09:39:37		TIC =	-0.59999 mV	-0.06463 ug C	-0.06437 ppm
SPL# 00064	09:44:37	778C	TOC =	-0.90000 mV	-0.09695 ug C	-0.09656 ppm
SPL# 00065	09:47:42		TIC =	-0.59999 mV	-0.06463 ug C	-0.06437 ppm
SPL# 00065	09:52:42		TOC =	-2.20000 mV	-0.23699 ug C	-0.23605 ppm
SPL# 00066	09:55:47		TIC =	-0.10000 mV	-0.01077 ug C	-0.01072 ppm
SPL# 00066	10:00:47	Blk	TOC =	2.70000 mV	0.29085 ug C	0.28970 ppm
SPL# 00067	10:03:52		TIC =	26.4000 mV	2.84395 ug C	2.83262 ppm
SPL# 00067	10:08:52	778D	TOC =	7.50000 mV	0.80794 ug C	0.80472 ppm
SPL# 00068	10:11:57		TIC =	25.7000 mV	2.76854 ug C	2.75751 ppm
SPL# 00068	10:16:57		TOC =	6.30000 mV	0.67866 ug C	0.67596 ppm
SPL# 00069	10:20:02		TIC =	-0.29999 mV	-0.03231 ug C	-0.03218 ppm
SPL# 00069	10:25:02	Blk	TOC =	2.10000 mV	0.22622 ug C	0.22532 ppm
SPL# 00070	10:28:07		TIC =	-0.20000 mV	-0.02154 ug C	-0.02145 ppm
SPL# 00070	10:33:07	778E	TOC =	0.80000 mV	0.08618 ug C	0.08583 ppm
SPL# 00071	10:36:12		TIC =	-0.70000 mV	-0.07540 ug C	-0.07510 ppm
SPL# 00071	10:41:12		TOC =	-0.60000 mV	-0.06463 ug C	-0.06437 ppm
SPL# 00072	10:44:17		TIC =	-0.09999 mV	-0.01077 ug C	-0.01072 ppm
SPL# 00072	10:49:17	Blk	TOC =	3.00000 mV	0.32317 ug C	0.32188 ppm
SPL# 00073	10:52:22		TIC =	-0.10000 mV	-0.01077 ug C	-0.01072 ppm
SPL# 00073	10:57:22	778C	TOC =	-2.60000 mV	-0.28008 ug C	-0.27897 ppm
SPL# 00074	11:00:27	dup	TIC =	-0.29999 mV	-0.03231 ug C	-0.03218 ppm
SPL# 00074	11:05:27		TOC =	[illegible]	[illegible]	[illegible]

SPL# 00075	11:08:32	TIC =	-0.10000 mV	-0.01077 ug C	-0.01072 ppm
SPL# 00075	11:13:32	TOC =	2.60000 mV	0.28008 ug C	0.27897 ppm
SPL# 00076	11:16:37	TIC =	-0.40000 mV	-0.04309 ug C	-0.04291 ppm
SPL# 00076	11:21:37	TOC =	87.7000 mV	9.44751 ug C	9.40987 ppm
SPL# 00077	11:24:42	TIC =	0.29999 mV	0.03231 ug C	0.03218 ppm
SPL# 00077	11:29:42	TOC =	90.4000 mV	9.73037 ug C	9.69157 ppm
SPL# 00078	11:32:47	TIC =	0.29999 mV	0.03231 ug C	0.03218 ppm
SPL# 00078	11:37:47	TOC =	3.50000 mV	0.37703 ug C	0.37553 ppm
SPL# 00079	11:40:52	TIC =	-0.20000 mV	-0.02154 ug C	-0.02145 ppm
SPL# 00079	11:45:52	TOC =	135.800 mV	14.6291 ug C	14.5708 ppm
SPL# 00080	11:48:57	TIC =	1.10000 mV	0.11849 ug C	0.11802 ppm
SPL# 00080	11:53:57	TOC =	136.000 mV	14.6506 ug C	14.5923 ppm
SPL# 00081	11:57:02	TIC =	0.39999 mV	0.04308 ug C	0.04291 ppm
SPL# 00081	12:02:02	TOC =	3.20000 mV	0.34472 ug C	0.34334 ppm
SPL# 00082	12:05:07	TIC =	0.39999 mV	0.04308 ug C	0.04291 ppm
SPL# 00082	12:10:07	TOC =	373.200 mV	40.2031 ug C	40.0429 ppm
SPL# 00083	12:13:12	TIC =	2.20000 mV	0.23699 ug C	0.23605 ppm
SPL# 00083	12:18:12	TOC =	495.200 mV	53.3456 ug C	53.1330 ppm
SPL# 00084	12:21:17	TIC =	1.70000 mV	0.18313 ug C	0.18240 ppm
SPL# 00084	12:26:17	TOC =	20.3000 mV	2.18682 ug C	2.17811 ppm

SECTION III

WET CHEMISTRY (CLASSICALS) ANALYSIS ON SEDIMENT SAMPLES 50750 M-O.

Subpart A: Evaluation of Analytical Data

Subpart B: Analytical Data

Subpart C: Quality Control

Subpart D: Raw Data

SECTION III, Subpart A

Evaluation of Analytical Data for Sediment Samples 50750 H-O

The analysis requested for these samples was phenolics.. Phenolics were detected in three of the sediment samples. Sample 50705-K was found to have 0.33 mg/kg phenolics, Sample 50705-L 0.50 mg/kg, and Sample 50705-O 0.79 mg/kg. All values are on a dry wt. basis. The average detection limit was 0.13 mg/kg, (based on an average % solids value of 70%, and an average wet wt. distilled of 11.0 grams).

SECTION III, SUBPART D

Analytical Data for Sediment Samples 50705 H-0

general testing corporation
710 Exchange Street
Rochester, NY 14608

Date 6/20/85

COVER PAGE

WET CHEMISTRY ANALYSIS DATA SHEET

Lab Name General Testing Corporation — Job No. 50705

PAS Environmental Assessment — Q.C. Report No. 50705-2

SAMPLE NUMBERS

Lab ID No.	Lab ID No.
50705-H (PAS-WC-DS-3)	50705-N (PAS-WNC-DS-6)
50705-I (PAS-WC-US-1)	50705-O (PAS-MP-7)
50705-J (PAS-WNC-US-2)	
50705-K (PAS-WC-US-1A)	
50705-L (PAS-WNC-US-2A)	
50705-M (PAS-WNC-DS-4)	

Comments:

Footnotes:

NR - not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit. Report the value in brackets (i.e.,[10]. Indicate the analytical method used with P (for ICP/Flame AA) or F (for furnace).

U - Indicates element was analyzed for but not detected. Report with the dection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory not included on cover page.

S - Indicates value determined by Method of Standard Addition.

R - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995.

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM I

Sample No.
PAS-WC-05-3

Date 6/28/85

WET CHEMISTRY ANALYSIS DATA SHEET

LAB NAME General Testing Corporation JOB NO. 50705

LAB SAMPLE ID. NO. 50705- H QC REPORT NO. 50705-2

Elements Identified and Measured

Concentration: Low X Medium

Matrix: Water Soil Sludge Other Sediment

mg/L or (mg/kg) dry weight (Circle One)

1.	Phenol 0.13 u	13.	
2.		14.	
3.		15.	
4.		16.	
5.		17.	
6.		18.	
7.		19.	
8.		20.	
9.		21.	
10.		22.	
11.		23.	
12.		24.	

Footnotes: Standard result qualifiers are used as defined on Cover Page.

Comments:

Lab Manager Michael K. Peoples

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM I

Sample No.
PAS-MC-US-1

Date 6/28/05

WET CHEMISTRY ANALYSIS DATA SHEET

LAB NAME General Testing Corporation JOB NO. 50705

LAB SAMPLE ID. NO. 50705-I QC REPORT NO. 50705-2

Elements Identified and Measured

Concentration: Low X Medium

Matrix: Water Soil Sludge Other Sediment

mg/L or (mg/kg) dry weight (Circle One)

1.	Phenol 0.15 u	13.	
2		14.	
3		15.	
4.		16.	
5		17.	
6.		18.	
7.		19.	
8		20.	
9.		21.	
		22.	
		23.	
		24.	

Footnotes: Standard result qualifiers are used as defined on Cover Page.

Comments:

Lab Manager Michael K. Perry

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM I

Sample No.
PAS-WNC-US-2
Date 6/28/85

WET CHEMISTRY ANALYSIS DATA SHEET

NAME General Testing Corporation JOB NO. 50705

AB SAMPLE ID. NO. 50705-J QC REPORT NO. 50705-2

Elements Identified and Measured

oncentration: Low X Medium

a rix: Water Soil Sludge Other Sediment

mg/L or (mg/kg) dry weight (Circle One)

1.	Phenol	0.12 u	13.
2			14.
3			15.
4.			16.
5			17.
			18.
			19.
			20.
			21.
			22.
			23.
			24.

notes; Standard result qualifiers are used as defined on Cover Page.

ents:

Lab Manager Michael K. Perry

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM I

Sample No.
PAS-WC-US-1A

Date 6/28/89

WET CHEMISTRY ANALYSIS DATA SHEET

LAB NAME General Testing Corporation JOB NO. 50705

LAB SAMPLE ID. NO. 50705-K QC REPORT NO. 50705-2

Elements Identified and Measured

Concentration: Low X Medium

Matrix: Water Soil Sludge Other Sediment

mg/L or (mg/kg) dry weight (Circle One)

1.	Phenol	0.33	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			

13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.

Notes: Standard result qualifiers are used as defined on Cover Page.

Comments:

Lab Manager Michael K. Penner

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM I

Sample No.
PAS-WNC-US-2A

Date 6/28/85

WET CHEMISTRY ANALYSIS DATA SHEET

NAME General Testing Corporation JOB NO. 50705

AB SAMPLE ID. NO. 50705-L QC REPORT NO. 50705-2

Elements Identified and Measured

oncentration: Low X Medium

rix: Water Soil Sludge Other Sediment

mg/L or (mg/kg) dry weight (Circle One)

1.	Phenol	0.50	
2			14.
3			15.
4.			16.
			17.
			18.
			19.
			20.
			21.
			22.
			23.
			24.

notes: Standard result qualifiers are used as defined on Cover Page.

nts:

Lab Manager Michael K. Penny

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM I

Sample No.
PAS-WNC-DS-4

Date 6/28/85

WET CHEMISTRY ANALYSIS DATA SHEET

LAB NAME General Testing Corporation JOB NO. 50705

LAB SAMPLE ID. NO. 50705-M QC REPORT NO. 50705-2

Elements Identified and Measured

Concentration: Low X Medium

Matrix: Water Soil Sludge Other Sediment

mg/L or (mg/kg) dry weight (Circle One)

1.	Phenol 0.10 U	13.	
2		14.	
3		15.	
4.		16.	
5		17.	
6.		18.	
7.		19.	
8		20.	
9.		21.	
10		22.	
11.		23.	
12.		24.	

Footnotes: Standard result qualifiers are used as defined on Cover Page.

Comments:

Lab Manager Michael K. Perry

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM I

Sample No.
PAS-WNC-DS-6

Date 6/28/85

WET CHEMISTRY ANALYSIS DATA SHEET

LAB NAME General Testing Corporation JOB NO. 50705

LAB SAMPLE ID. NO. 50705-N QC REPORT NO. 50705-2

Elements Identified and Measured

Concentration: Low X Medium

Matrix: Water Soil Sludge Other Sediment

mg/L or (mg/kg) dry weight (Circle One)

1.	Phenol 0.12 u	13.	
2		14.	
3		15.	
4.		16.	
5		17.	
6.		18.	
7.		19.	
8		20.	
9.		21.	
10		22.	
11.		23.	
12.		24.	

Footnotes: Standard result qualifiers are used as defined on Cover Page.

Comments:

Lab Manager Michael K. Perry

001

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM I

Sample No.

PAS-MP-7

Date 6/28/85

WET CHEMISTRY ANALYSIS DATA SHEET

LAB NAME General Testing Corporation JOB NO. 50705

LAB SAMPLE ID. NO. 50705-0 QC REPORT NO. 50705-2

Elements Identified and Measured

Concentration: Low X Medium

Matrix: Water Soil Sludge Other Sediment

mg/L or (mg/kg) dry weight (Circle One)

1. Phenol	0.79	13.	
2		14.	
3		15.	
4.		16.	
5		17.	
6.		18.	
7.		19.	
8		20.	
9.		21.	
10		22.	
11.		23.	
12.		24.	

Footnotes: Standard result qualifiers are used as defined on Cover Page.

Comments:

Lab Manager Michael K. Perry

Section III, Subpart C

QUALITY CONTROL FOR SEDIMENT SAMPLES 50705 H-O

Quality Control data is presented in this section covering four basic areas of Quality Control.

1.) Form II: Initial and continuing calibration verification. Initial calibration is performed by analyzing a check sample of known quantity immediately following the analysis of calibration standards. The value obtained for the initial calibration check should be ± 10% of the known value. Continuing calibration is performed at a frequency of 5-10% in the same manner.

2.) Form III: Blank analysis. Reagent blanks (Deionized water containing all reagents used in the analysis) are run immediately following the analysis of calibration standards, and at a frequency of 5-10% throughout the analysis. When appropriate a preparation blank is analyzed which has been subjected to all prepatation procedures performed on the samples ptior to analysis. All blanks should be less than the detection limits stated.

3.) Form V: Spiked Sample Recovery. During the course of an analytical run samples are selected at a random frequency of 10% to be spiked with a known amount of the analyte. In this way Matrix effects (constituents in the sample which bias the analysis in a positive or negative manner) are detected and steps may be taken to eliminate this effect. Recovery of spikes should be within the stated limits and if not the data fragged with an "R".

4.) Form VI: Duplicates. During the course of an analysis samples are selected at a random frequency or 10% for duplicate analysis. A % relative error is calculated for each and should not exceed the stated limits. Duplicates exceeding the limits are flagged with an *.

It should be noted that many of the analysis performed in our Wet Chemistry area are run on Auto Analysis Systems controlled by a computer which monitors blanks and continuing calibration standatds, and takes this data into account when calculating sample values.

No Quality Control problems were associated with the analysis of these samples.

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM II

Q. C. Report No. 50705-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION[3]

L.B NAME General Testing Corporation JOB NO. 50705

DATE June 28, 1985 UNITS mg/l

Compound	Initial Calib.[1]			Continuing Calibration[2]					
	True Value	Found	%R	True Value	Found	%R	Found	%R	Method[4]
1. Phenol	0.070	0.070	100	0.070	0.072	103	0.075	107	EPA#420.2
2									
3									
4.									
5									
6.									
7									
8.									
9									
10.									
11									
12									
13.									
14									
15.									
16									
17.									
18									
19.									
20									
21.									
22.									
23									
24.									

Other:

[1] Initial Calibration Source Mid-range Standard

[2] Continuing Calibration Source Mid-range Standard

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM III

Q. C. Report No. 50705-2

BLANKS

LAB NAME General Testing Corporation JOB NO. 50705

DATE June 28, 1985 UNITS mg/l

Matrix Water

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
1. Phenol	<0.005	<0.005	<0.005				
2							
3.							
4							
5.							
6							
7							
8.							
9							
10.							
11							
12.							
13							
14.							
15							
16.							
17.							
18							
19.							
20							
21.							
22							
23.							
24							

Other:

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM V

Q. C. Report No. 50705-2

SPIKE SAMPLE RECOVERY

LAB NAME General Testing Corporation JOB NO. 50705

Parameter Phenol

DATE June 28, 1985 Units mg/l

Matrix Water (distillate)

Sample I.D. #	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]
1. 50705N	100 ± 10	0.0510	<0.005	0.0495	102
2					
3.					
4					
5.					
6					
7.					
8					
9					
10.					
11					
12.					
13					
14.					
15					
16.					
17					
18					
19.					
20					
21.					
22					
23.					
24					

Other:

[1] %R = [(SSR - SR)/SA] x 100

"R" - out of control

Comments:

general testing corporation
710 Exchange Street
Rochester, NY 14608

FORM VI

Q. C. Report No. 50705-2

DUPLICATES

LAB NAME General Testing Corporation JOB NO. 50705

Parameter Phenol

DATE June 28, 1985 Units mg/l

Matrix Water (distillate)

Sample I.D. #	Control Limit[1]	Sample(S)	Duplicate (D)	RPD[2]
50705N	20.0	<0.005	<0.005	NC
4.				
5.				
7.				
9.				
1 .				
11.				
1 .				
1 .				
14.				
1 .				
16.				
1 .				
18.				
1 .				
20.				
2 .				
24.				
2 .				
2 .				

Other:

* it of Control

1 To be added at a later date.

2 RPD = [S - D /((S+D)/2] x 100

N - Non calculable RPD due to value(s) less than CRDL

SECTION III, SUBPART D

RAW DATA (WET CHEMISTRY) FOR SEDIMENT SAMPLES 50705 H-0

Included in this subport is raw data in the form of data sheets, computer printouts, recorder charts, standards preparation records, and distillation or digestion records. Raw data for several runs may be presented for a given parameter if more than one run was required in order to obtain data for all samples covered in this section.

Subpart D-1: Phenolics x

x see section II, subpart D-5