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Project Site numbers will be proceeded by the following:

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- Superfund - HW
- Spills - SP
- ERP - E
- VCP - V
- BCP - C

DA

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COMPANY

**GEOTECHNICAL TESTING REPORT
STAUFFER CHEMICAL SITE
LEWISTON, NEW YORK
PROJECT NO. 266**

8/93

*Rec'd DEC
12/10/93*



**GEOTECHNICAL TESTING REPORT
STAUFFER CHEMICAL SITE
LEWISTON, NEW YORK
PROJECT NO. 266**

**FOR:
TREATEK-CRA COMPANY
NIAGARA FALLS, NEW YORK**

**JOB NO. BD-93-058
OCTOBER, 1993**

November 1, 1993

Mr. Don McCleod
Treatek-Cra Company
7703 Niagara Falls Boulevard
Niagara Falls, New York 14304

**SUBJECT: GEOTECHNICAL TESTING, CONTAMINATED SOIL
STAUFFER CHEMICAL SITE, LEWISTON, NEW YORK
TREATEK-CRA PROJECT NO. 266**

Dear Mr. McCleod:

Transmitted herewith are the results of geotechnical laboratory testing performed on contaminated soil samples from the subject project. The work was performed in conjunction with subcontract for drilling at the site with Empire Soils Investigations, Inc., Division of Huntingdon Engineering & Environmental, Hamburg, New York and authorized by Purchase Order No. P0tt000760CM.

A total of three(3) samples were received at our laboratory in Middleport, New York in two(2) separate shipments on September 10 and 29, 1993. The samples were identified and catalogued as follows:

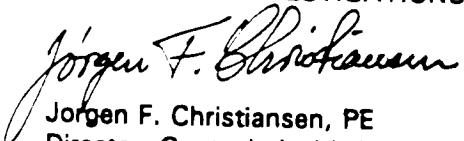
<u>LAB NO.</u>	<u>SAMPLE IDENTIFICATION</u>
1801.001	S-930903-CJB-A
1801.002	S-930903-CJB-B
1835.001	S-930921-CJB-C

As requested on the accompanying chain-of-custody, Records No. 12402 and 12407 we have performed grain size distribution analysis(ASTM D422) on all three(3) samples. Individual Grain Size Distribution Test reports are attached.

I has been a pleasure working with your Firm again on this interesting project. Should you have any questions, or in case we may be of further service, do not hesitate to contact the undersigned at 716-735-3400.

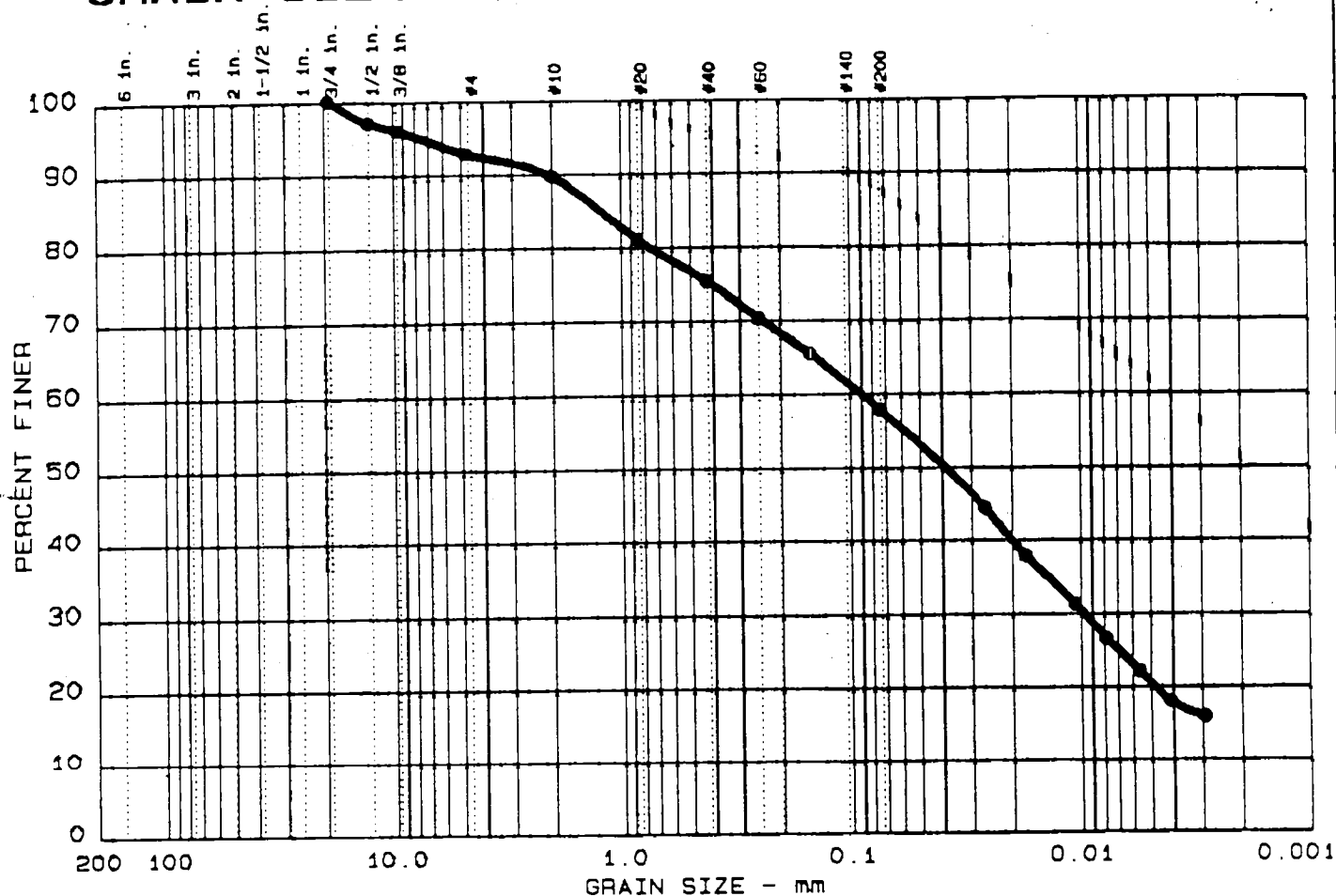
Very truly yours,

EMPIRE SOILS INVESTIGATIONS, INC.


Jorgen F. Christiansen, PE
Director, Geotechnical Laboratory

JFC/rlm
Enc.

GRAIN SIZE DISTRIBUTION TEST REPORT



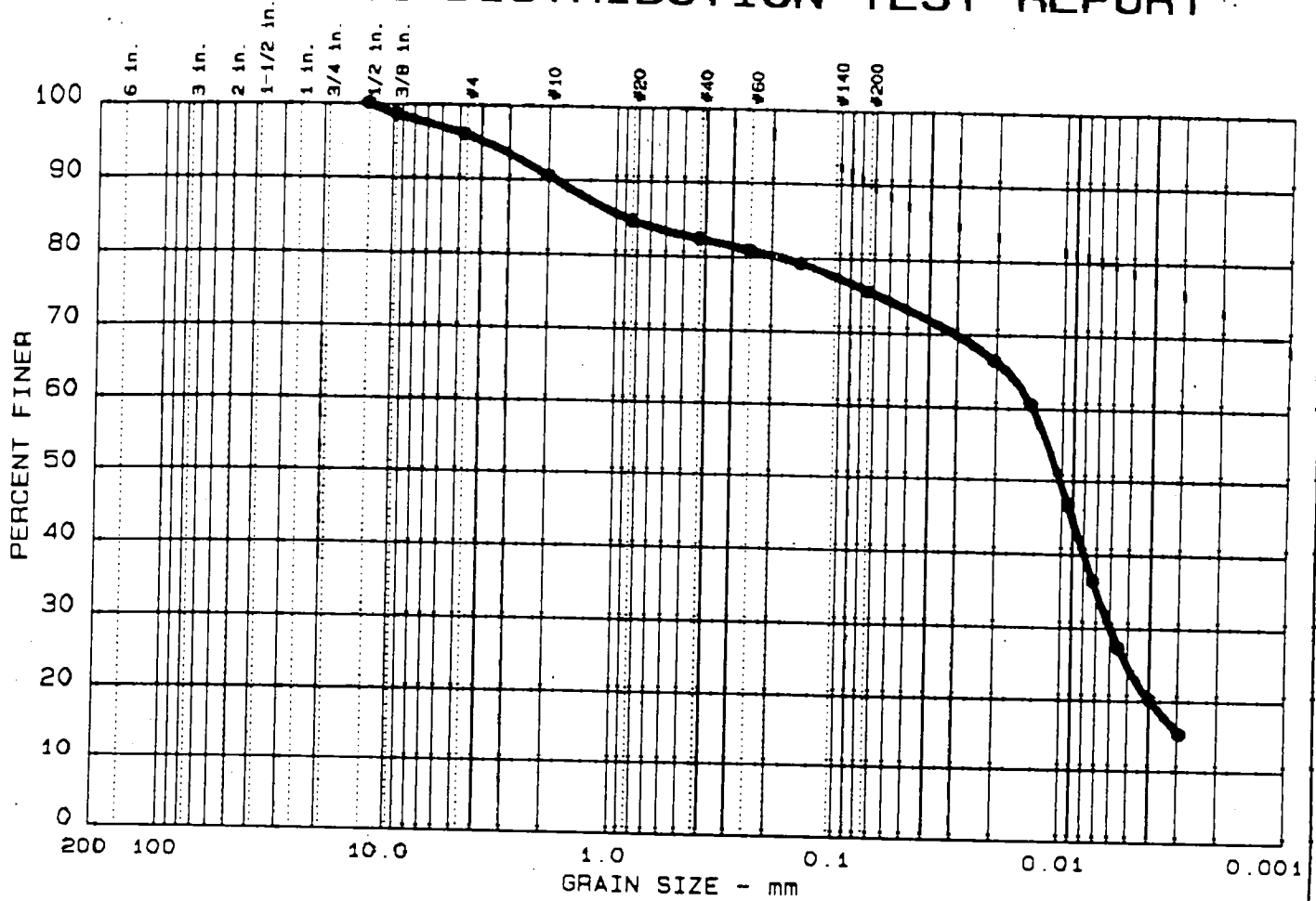
Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 5	0.0	7.1	35.1	37.2	20.6

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
		1.20	0.09	0.04	0.010				

MATERIAL DESCRIPTION	USCS	AASHTO
● TAN SILT AND SAND, Some Clay, trace gravel		

Project No.: BD-93-058 Project: STAUFFER CHEMICAL SITE LEWISTON N.Y. ● Location: S-930903-CJB-A Date: OCTOBER 20, 1993	Remarks: CLIENT: TREATEK CRA PROJ. #266 LAB NO. 1801.001
---	---

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 7	0.0	4.0	20.4	50.8	24.8

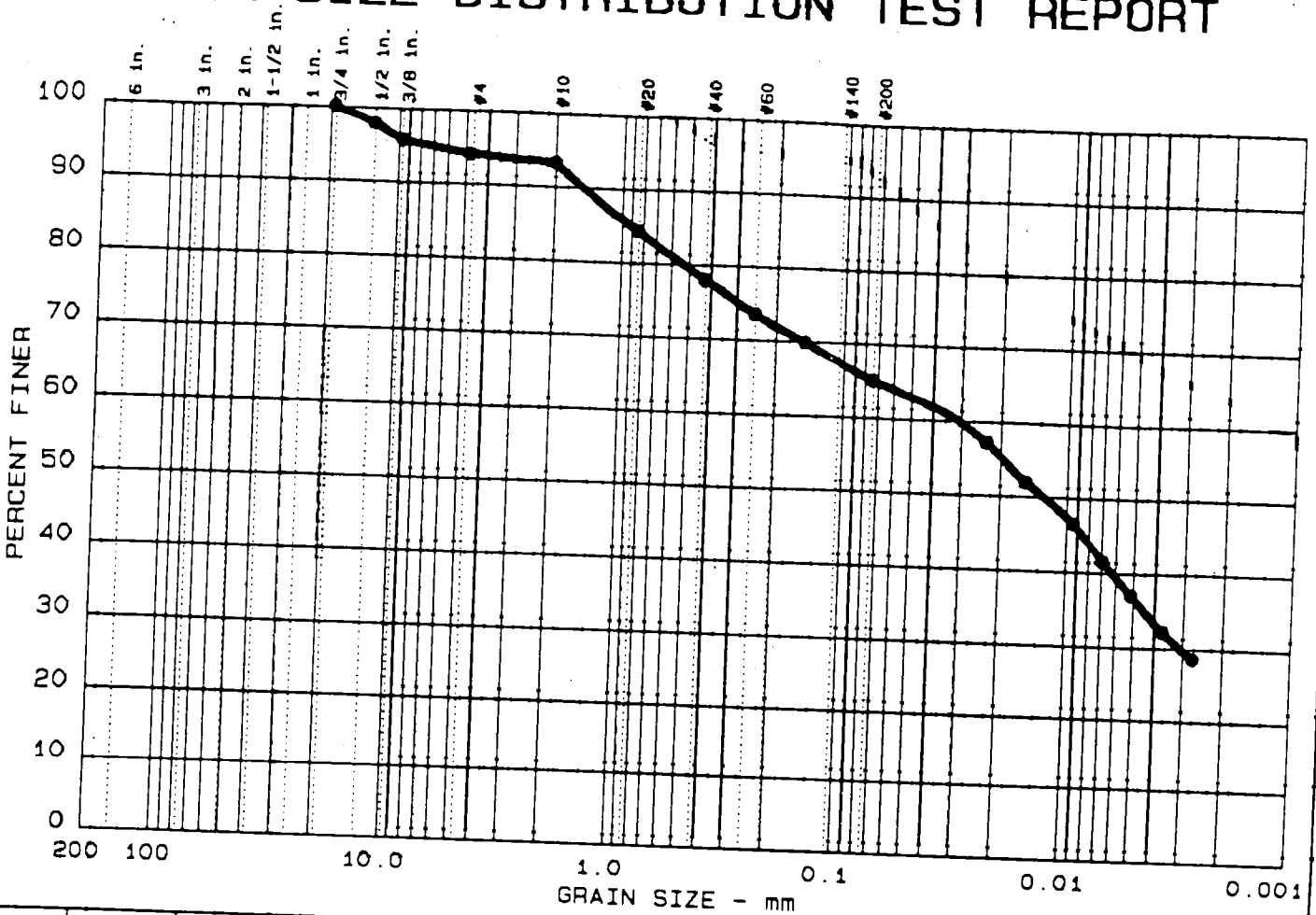
LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
		0.88		0.01	0.006				

MATERIAL DESCRIPTION	USCS	AASHTO
● TAN. SILT, Some Clay & Sand, trace gravel		

Project No.: BD-93-058
 Project: STAUFFER CHEMICAL SITE LEWISTON N.Y.
 ● Location: S-930903-CJB-B
 Date: OCTOBER 20, 1993

Remarks:
 CLIENT: TREATEK CRA
 PROJ. #266
 LAB NO. 1801.002

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 8	0.0	5.9	29.1	28.4	36.6

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
		0.89		0.01	0.003				

MATERIAL DESCRIPTION

● TAN CLAY, Some Sand & Silt, trace gravel

USCS

AASHTO

Project No.: BD-93-058

Project: STAUFFER CHEMICAL SITE LEWISTON N.Y.

● Location: S-930921-CJB-C

Date: OCTOBER 20, 1993

Remarks:

CLIENT: TREATEK CRA

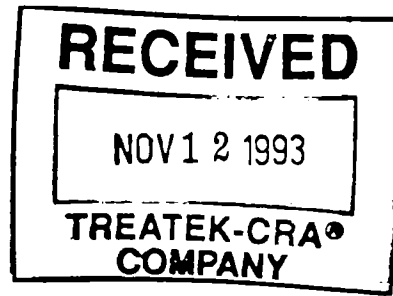
PROJ. #266

LAB NO. 1835.001

GRAIN SIZE DISTRIBUTION TEST REPORT

EMPIRE SOILS INVESTIGATIONS, INC

Figure No. 1



GEOTECHNICAL TESTING REPORT
STAUFFER CHEMICAL SITE
LEWISTON, NEW YORK
PROJECT NO. 266



**GEOTECHNICAL TESTING REPORT
STAUFFER CHEMICAL SITE
LEWISTON, NEW YORK
PROJECT NO. 266**

**FOR:
TREATEK-CRA COMPANY
NIAGARA FALLS, NEW YORK**

**JOB NO. BD-93-058
OCTOBER, 1993**

November 1, 1993

Mr. Don McCleod
Treatek-Cra Company
7703 Niagara Falls Boulevard
Niagara Falls, New York 14304

**SUBJECT: GEOTECHNICAL TESTING, CONTAMINATED SOIL
STAUFFER CHEMICAL SITE, LEWISTON, NEW YORK
TREATEK-CRA PROJECT NO. 266**

Dear Mr. McCleod:

Transmitted herewith are the results of geotechnical laboratory testing performed on contaminated soil samples from the subject project. The work was performed in conjunction with subcontract for drilling at the site with Empire Soils Investigations, Inc., Division of Huntingdon Engineering & Environmental, Hamburg, New York and authorized by Purchase Order No. P0tt000760CM.

A total of three(3) samples were received at our laboratory in Middleport, New York in two(2) separate shipments on September 10 and 29, 1993. The samples were identified and catalogued as follows:

<u>LAB NO.</u>	<u>SAMPLE IDENTIFICATION</u>
1801.001	S-930903-CJB-A
1801.002	S-930903-CJB-B
1835.001	S-930921-CJB-C

As requested on the accompanying chain-of-custody, Records No. 12402 and 12407 we have performed grain size distribution analysis(ASTM D422) on all three(3) samples. Individual Grain Size Distribution Test reports are attached.

I has been a pleasure working with your Firm again on this interesting project. Should you have any questions, or in case we may be of further service, do not hesitate to contact the undersigned at 716-735-3400.

Very truly yours,

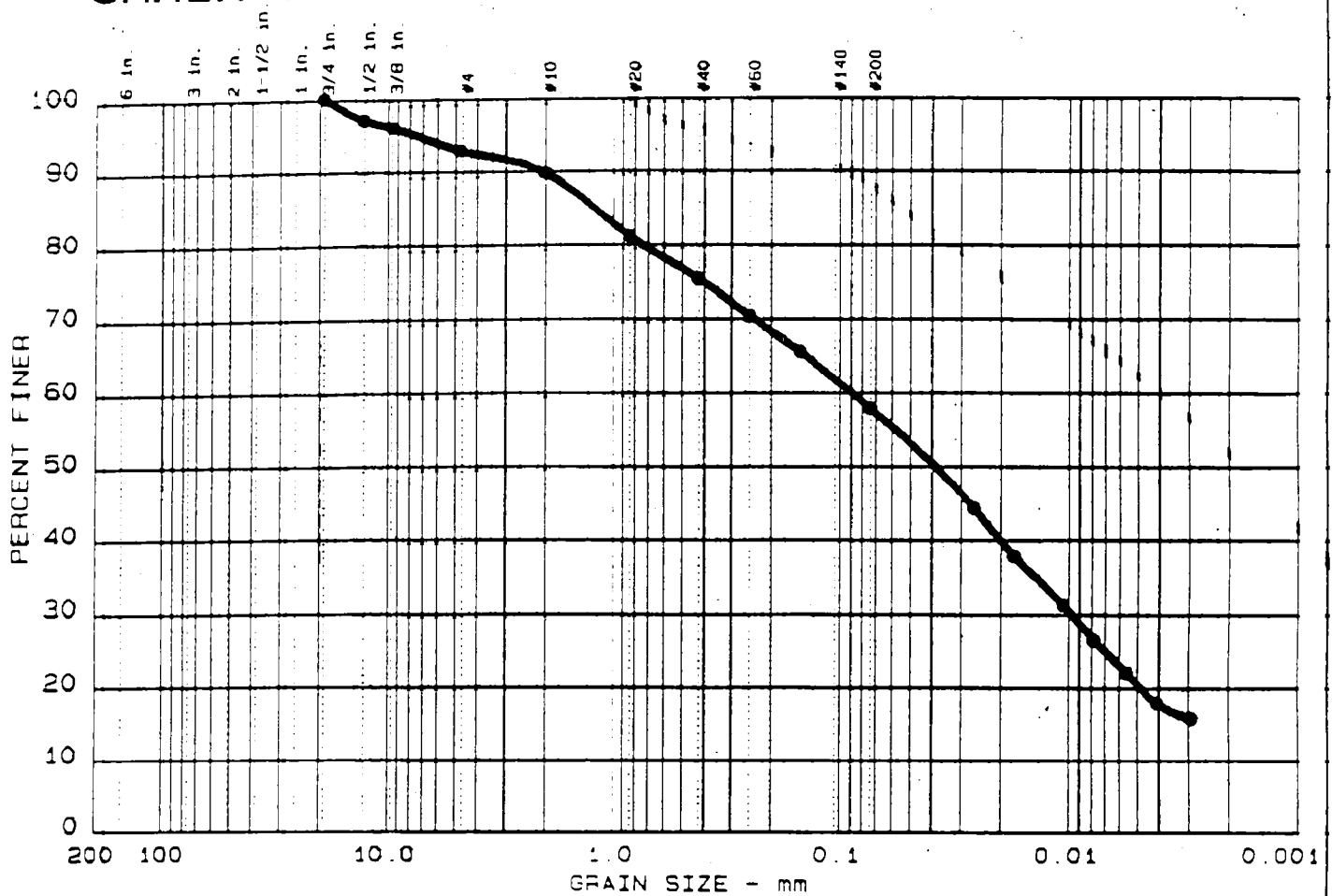
EMPIRE SOILS INVESTIGATIONS, INC.



Jorgen F. Christiansen, PE
Director, Geotechnical Laboratory

JFC/rlm
Enc.

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 5	0.0	7.1	35.1	37.2	20.6

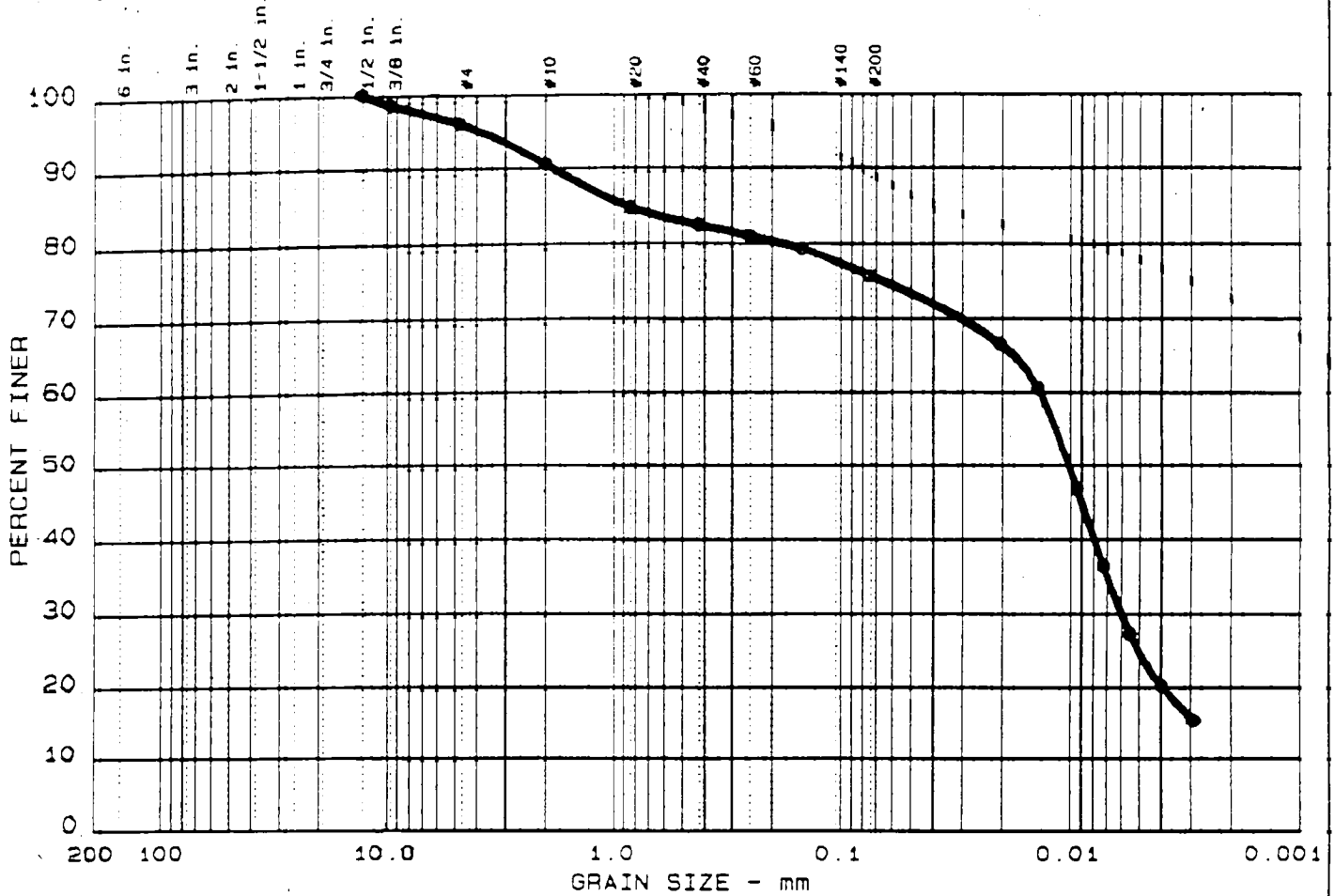
LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
●		1.20	0.09	0.04	0.010				

MATERIAL DESCRIPTION	USCS	AASHTO
● TAN SILT AND SAND, Some Clay, trace gravel		

Project No.: 8D-93-058
 Project: STAUFFER CHEMICAL SITE LEWISTON N.Y.
 ● Location: S-930903-CJB-A
 Date: OCTOBER 20, 1993

Remarks:
 CLIENT: TREATEK CRA
 PROJ. #266
 LAB NO. 1801.001

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 7	0.0	4.0	20.4	50.8	24.8

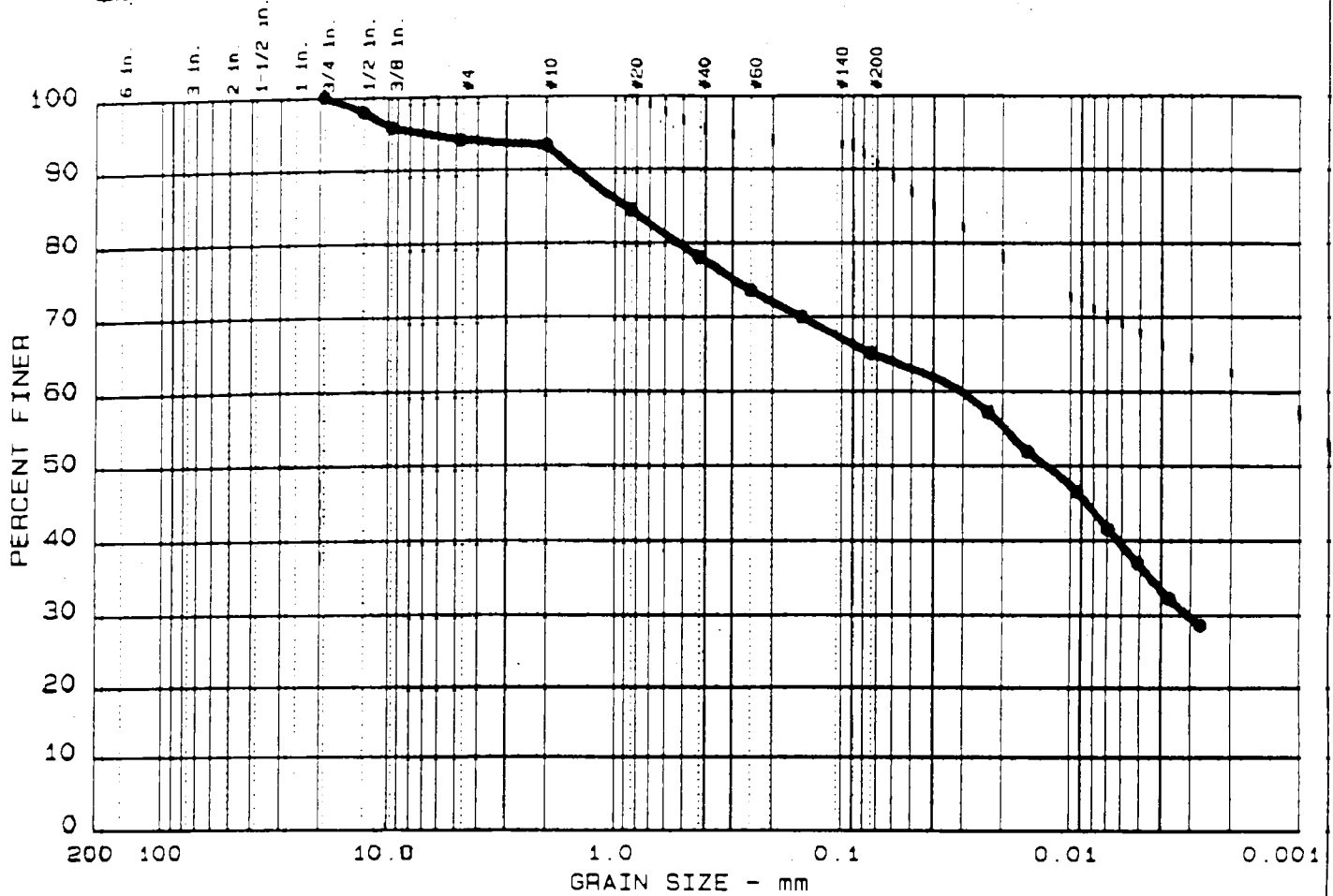
LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
		0.88		0.01	0.006				

MATERIAL DESCRIPTION	USCS	AASHTO
● TAN SILT, Some Clay & Sand, trace gravel		

Project No.: BD-93-058
 Project: STAUFFER CHEMICAL SITE LEWISTON N.Y.
 ● Location: S-930903-CJB-B
 Date: OCTOBER 20, 1993

Remarks:
 CLIENT: TREATEK CRA
 PROJ. #266
 LAB NO. 1801.002

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 8	0.0	5.9	29.1	28.4	36.6

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
		0.89		0.01	0.003				

MATERIAL DESCRIPTION	USCS	AASHTO
● TAN CLAY, Some Sand & Silt, trace gravel		

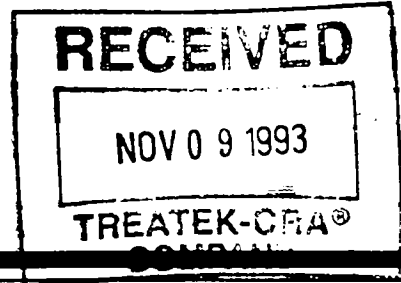
Project No.: BD-93-058
 Project: STAUFFER CHEMICAL SITE LEWISTON N.Y.
 ● Location: S-930921-CJB-C
 Date: OCTOBER 20, 1993

Remarks:
 CLIENT: TREATEK CRA
 PROJ. #266
 LAB NO. 1835.001



INTERNATIONAL
TECHNOLOGY
CORPORATION

ANALYTICAL SERVICES



CERTIFICATE OF ANALYSIS

TREATEK-CRA
7703 Niagara Falls Blvd.
Niagara Falls, NY 14304

Date: November 8, 1993

Attn: Mr. Brian Kramer

Project Number 416

This is the Certificate of Analysis for the following samples:

Client Project ID:	TREATEK-CRA
Date Received:	October 28, 1993
Work Order:	2569
Number of Samples:	2
Sample Type:	Air

I. Introduction

Two samples arrived at ITAS Cincinnati on October 28, 1993. The samples were collected on October 25, 1993 and were labeled as follows:

SVEC-1
SVEC-2

II. Analytical Results/Methodology

The analytical results for this report are presented by analytical test. The data will include sample identification information, the analytical results, and the appropriate detection limits.

The analyses requested were Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry; EPA Method TO-14 and Permanent Gases by ASTM D-3416.

Reviewed and Approved by:

Jon Sonderman
Project Manager

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories
American Association for Laboratory Accreditation

Client: TREATEK
Work Order: 2569
10256901

IT ANALYTICAL SERVICES
CINCINNATI, OH
(513) 782-4700

III. Quality Control

Immediately following the analytical data for the samples can be found the QA/QC information that pertains to these samples. The purpose of this information is to demonstrate that the data enclosed is scientifically valid and defensible. This QA/QC data is used to assess the laboratory's performance during the analysis of the samples it accompanies. All quantitations were performed within the calibrated range of the analytical instrument.

IV. Data Report Qualifiers

Following are descriptions of data report qualifiers which may have been used in this analytical report.

J Indicates an estimated value. This flag is used when mass spectral data indicates the presence of the compound, but the result is less than the specified detection limit.

B This flag is used whenever the analyte is found in the blank as well as in the sample.

E This flag indicates that the quantity of this compound detected in this sample is above the linear range of the instrument. Results are probably lower than actual.

V. Comments

Permanent and fixed gas analysis voided due to large serial dilutions of canisters for TO-14 analysis with zero grade humid air.

Client: TREATEK
Workorder: 2569

IT ANALYTICAL SERVICES
CINCINNATI, OH
(513) 782-4700

TO-14 Volatile Organics

Client Sample ID: SVEC-1
Lab Sample ID: AC0599
Analysis Date: 11/03/93
Dilution Factor: 40.32

CAS #	Compound	Result (ppb v/v)	Detection Limit
75-09-2	Methylene Chloride	13	8.1
67-66-3	Chloroform	29	8.1
56-23-5	Carbon Tetrachloride	16	8.1
71-43-2	Benzene	380 E	8.1
79-01-6	Trichloroethene	140	8.1
108-88-3	Toluene	120	8.1
127-18-4	Tetrachloroethene	140	8.1
75-15-0	Carbon Disulfide	41	12

Surrogate Percent Recoveries

Compound	% Recovery
D4-1,2-Dichloroethane	94
D8-Toluene	98
Bromofluorobenzene	101

Client: TREATEK
Workorder: 2569

IT ANALYTICAL SERVICES
CINCINNATI, OH
(513) 782-4700

TO-14 Volatile Organics

Client Sample ID: SVEC-1
Lab Sample ID: AC0599DL
Analysis Date: 11/05/93
Dilution Factor: 149

CAS #	Compound	Result (ppb v/v)	Detection Limit
75-09-2	Methylene Chloride	35	30
67-66-3	Chloroform	ND	30
56-23-5	Carbon Tetrachloride	ND	30
71-43-2	Benzene	340	30
79-01-6	Trichloroethene	130	30
108-88-3	Toluene	110	30
127-18-4	Tetrachloroethene	140	30
75-15-0	Carbon Disulfide	58	45

Surrogate Percent Recoveries

Compound	% Recovery
D4-1,2-Dichloroethane	93
D8-Toluene	100
Bromofluorobenzene	103

Client: TREATEK
Workorder: 2569

IT ANALYTICAL SERVICES
CINCINNATI, OH
(513) 782-4700

TO-14 Volatile Organics

Client Sample ID: SVEC-2
Lab Sample ID: AC0600
Analysis Date: 11/04/93
Dilution Factor: 37.84

CAS #	Compound	Result (ppb v/v)	Detection Limit
75-09-2	Methylene Chloride	13	7.6
67-66-3	Chloroform	87	7.6
56-23-5	Carbon Tetrachloride	81	7.6
71-43-2	Benzene	120	7.6
79-01-6	Trichloroethene	200	7.6
108-88-3	Toluene	69	7.6
127-18-4	Tetrachloroethene	1400 E	7.6
75-15-0	Carbon Disulfide	1000 E	11

Surrogate Percent Recoveries

Compound	% Recovery
D4-1,2-Dichloroethane	99
D8-Toluene	101
Bromofluorobenzene	103

Client: TREATEK
Workorder: 2569

IT ANALYTICAL SERVICES
CINCINNATI, OH
(513) 782-4700

TO-14 Volatile Organics

Client Sample ID: SVEC-2

Lab Sample ID: AC0600DL

Analysis Date: 11/05/93

Dilution Factor: 1010

CAS #	Compound	Result (ppb v/v)	Detection Limit
75-09-2	Methylene Chloride	220	200
67-66-3	Chloroform	ND	200
56-23-5	Carbon Tetrachloride	ND	200
71-43-2	Benzene	ND	200
79-01-6	Trichloroethene	230	200
108-88-3	Toluene	ND	200
127-18-4	Tetrachloroethene	1000	200
75-15-0	Carbon Disulfide	910	310

Surrogate Percent Recoveries

Compound	% Recovery
D4-1,2-Dichloroethane	93
D8-Toluene	100
Bromofluorobenzene	100

Client: TREATEK
Workorder: 2569

IT ANALYTICAL SERVICES
CINCINNATI, OH
(513) 782-4700

TO-14 Volatile Organics

Client Sample ID: SYSTEM BLANK

Lab Sample ID: ABLKQ8

Analysis Date: 11/05/93

Dilution Factor: 1

CAS #	Compound	Result (ppb v/v)	Detection Limit
75-09-2	Methylene Chloride	ND	0.2
67-66-3	Chloroform	ND	0.2
56-23-5	Carbon Tetrachloride	ND	0.2
71-43-2	Benzene	ND	0.2
79-01-6	Trichloroethene	ND	0.2
108-88-3	Toluene	ND	0.2
127-18-4	Tetrachloroethene	ND	0.2
75-15-0	Carbon Disulfide	ND	0.3

Surrogate Percent Recoveries

Compound	% Recovery
D4-1,2-Dichloroethane	99
D8-Toluene	100
Bromofluorobenzene	100

Client: TREATEK
Workorder: 2569

IT ANALYTICAL SERVICES
CINCINNATI, OH
(513) 782-4700

TO-14 Volatile Organics

Client Sample ID: SYSTEM BLANK

Lab Sample ID: ABLKQ5

Analysis Date: 11/03/93

Dilution Factor: 1

CAS #	Compound	Result (ppb v/v)	Detection Limit
75-09-2	Methylene Chloride	ND	0.2
67-66-3	Chloroform	ND	0.2
56-23-5	Carbon Tetrachloride	ND	0.2
71-43-2	Benzene	ND	0.2
79-01-6	Trichloroethene	ND	0.2
108-88-3	Toluene	ND	0.2
127-18-4	Tetrachloroethene	ND	0.2
75-15-0	Carbon Disulfide	ND	0.3

Surrogate Percent Recoveries

Compound	% Recovery
D4-1,2-Dichloroethane	98
D8-Toluene	102
Bromofluorobenzene	88

COC NO.

W 02509



TREATEK CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME				NO OF CONTAINERS	DESCRIPTION OF ANALYSIS & BOTTLE TYPE			REMARKS (MEDIA TYPE, PRESERVATIVE, TOTAL OR DISSOLVED METALS, ETC.)	
266		Stauffer					TO-14 Analytical Standard (2000) 500 ml (1M D.3416) Standard (2000) 500 ml				
SAMPLERS: (SIGNATURE)											
Cauler & Coons											
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION						
SVEC-1 SN 24423	10/25/93	14:50 hrs.		✓	G-931025-BIOL-011	1	✓	✓	✓	 *0023444*	AL0599
SVEC-2	10/26/93	9:35 p.m.		✓	G-931026-DEE-012	1	✓	✓	✓	 *0023445*	AL0600
RUP 1326											
RELINQUISHED BY: (SIGNATURE)		TIME	DATE	RECEIVED BY: (SIGNATURE)		TIME	DATE	SHIPPER'S TRACKING NO			
Cauler & Coons		11:30 a.m.	10/27/93	Michael P. ...		04:40	10/28/93				
RELINQUISHED BY: (SIGNATURE)		TIME	DATE	RECEIVED BY: (SIGNATURE)		TIME	DATE	REMARKS			
								Shipped via Fed-Ex No 11564			
RELINQUISHED BY: (SIGNATURE)		TIME	DATE	RECEIVED BY: (SIGNATURE)		TIME	DATE				

TREATEK CHAIN OF CUSTODY RECORD

PROJECT NO. <i>266</i>		PROJECT NAME <i>Stauffer</i>				NO OF CONTAINERS	DESCRIPTION OF ANALYSIS & BOTTLE TYPE			REMARKS (MEDIA TYPE, PRESERVATIVE, TOTAL OR DISSOLVED METALS, ETC.)
SAMPLERS: (SIGNATURE) <i>Dalena & Coons</i>							<i>To 14 Street 505 Stauffer Co. Sta. Alameda D 3416 Stauffer Co. Sta. Stauffer Co. Sta.</i>			
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION					
<i>SVEC-1</i>	<i>10/25/93</i>	<i>14:50 hrs.</i>		<input checked="" type="checkbox"/>	<i>G-931025-BNK-011</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>Air</i>	
<i>SVEC-2</i>	<i>10/26/93</i>	<i>9:35 pm</i>		<input checked="" type="checkbox"/>	<i>G-931026-DEL-012</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>Air</i>	
									<i>Samples rec'd in good condition w/ no label back front 10/28/93 Michael W. Klumpp</i>	
RELINQUISHED BY (SIGNATURE) <i>Dalena & Coons</i>		TIME <i>11:30 a.m.</i>	DATE <i>10/27/93</i>	RECEIVED BY (SIGNATURE) <i>Michael W. Klumpp - ITAS Co.</i>			TIME <i>04:46 pm</i>	DATE <i>10/28/93</i>	SHIPPERS TRACKING NO.	
RELINQUISHED BY (SIGNATURE)		TIME	DATE	RECEIVED BY (SIGNATURE)			TIME	DATE	REMARKS <i>Shipped via Fed-Ex No 11564</i>	
RELINQUISHED BY (SIGNATURE)		TIME	DATE	RECEIVED BY (SIGNATURE)			TIME	DATE		



INTERNATIONAL
TECHNOLOGY
CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

TREATEK-CRA
7703 Niagara Falls Blvd.
Niagara Falls, NY 14304

Date: November 19, 1993

Attn: Mr. Brian Kramer

Project Number 416

This is the Certificate of Analysis for the following samples:

Client Project ID:	TREATEK-CRA
Date Received:	November 8, 1993
Work Order:	2657
Number of Samples:	2
Sample Type:	Air

I. Introduction

Two samples arrived at ITAS Cincinnati on November 8, 1993. The samples were collected on October 27, 1993 and November 5, 1993 and were labeled as follows:

SVEC-3
SVEC-4

II. Analytical Results/Methodology

The analytical results for this report are presented by analytical test. The data will include sample identification information, the analytical results, and the appropriate detection limits.

The analyses requested were Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry; EPA Method TO-14 and Permanent Gases by ASTM D-3416. Permanent Gases analysis was performed by Air Toxics, LTD. under ITAS Subcontract.

Reviewed and Approved by:

Jon Sonderman
Project Manager

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories
American Association for Laboratory Accreditation

Client: TREATEK
Work Order: 2657
11265701

IT ANALYTICAL SERVICES
CINCINNATI, OH
(513) 782-4700

III. Quality Control

Immediately following the analytical data for the samples can be found the QA/QC information that pertains to these samples. The purpose of this information is to demonstrate that the data enclosed is scientifically valid and defensible. This QA/QC data is used to assess the laboratory's performance during the analysis of the samples it accompanies. All quantitations were performed within the calibrated range of the analytical instrument.

IV. Data Report Qualifiers

Following are descriptions of data report qualifiers which may have been used in this analytical report.

J Indicates an estimated value. This flag is used when mass spectral data indicates the presence of the compound, but the result is less than the specified detection limit.

B This flag is used whenever the analyte is found in the blank as well as in the sample.

Client: TREATEK
 Work Order: 2657
 11265702

IT ANALYTICAL SERVICES
 CINCINNATI, OH
 (513) 782-4700

Analytical Results

Client Sample ID	SVEC-3	SVEC-4	
Lab No.	AC1237	AC1238	Detection Limit
Analyte	%	%	
Oxygen	16	16	0.001
Nitrogen	82	82	0.001
Carbon Monoxide	ND	ND	0.001
Methane	ND	ND	0.001
Carbon Dioxide	2.0	2.1	0.001
Total Non-Methane Hydrocarbons*	ND	ND	0.010
	Total % 100	Total % 100	

Client Sample ID	Method	
Lab No.	Blank	
Analyte	%	Detection Limit
Oxygen	ND	0.001
Nitrogen	100	0.001
Carbon Monoxide	ND	0.001
Methane	ND	0.001
Carbon Dioxide	ND	0.001
Total Non-Methane Hydrocarbons*	ND	0.010
	Total % 100	

ND = Not detected above the reported detection limit

* Referenced to Propane

Client: TREATEK
Workorder: 2657

IT ANALYTICAL SERVICES
CINCINNATI, OH
(513) 782-4700

TO-14 Volatile Organics

Client Sample ID: SYSTEM BLANK

Lab Sample ID: ABLKSO

Analysis Date: 11/16/93

Dilution Factor: 1

CAS #	Compound	Result (ppb v/v)	Detection Limit
75-09-2	Methylene Chloride	0.2	0.2
67-66-3	Chloroform	ND	0.2
56-23-5	Carbon Tetrachloride	ND	0.2
71-43-2	Benzene	ND	0.2
79-01-6	Trichloroethene	ND	0.2
108-88-3	Toluene	ND	0.2
127-18-4	Tetrachloroethene	ND	0.2
75-15-0	Carbon Disulfide	ND	0.3

Surrogate Percent Recoveries

Compound	% Recovery
D4-1,2-Dichloroethane	102
D8-Toluene	94
Bromofluorobenzene	95

Client: TREATEK
Workorder: 2657

IT ANALYTICAL SERVICES
CINCINNATI, OH
(513) 782-4700

TO-14 Volatile Organics

Client Sample ID: SVEC-3
Lab Sample ID: AC1237
Analysis Date: 11/16/93
Dilution Factor: 1.575

CAS #	Compound	Result (ppb v/v)	Detection Limit
75-09-2	Methylene Chloride	ND	0.31
67-66-3	Chloroform	ND	0.31
56-23-5	Carbon Tetrachloride	ND	0.31
71-43-2	Benzene	ND	0.31
79-01-6	Trichloroethene	0.4	0.31
108-88-3	Toluene	ND	0.31
127-18-4	Tetrachloroethene	2.0	0.31
75-15-0	Carbon Disulfide	3.6	0.47

Surrogate Percent Recoveries

Compound	% Recovery
D4-1,2-Dichloroethane	95
D8-Toluene	100
Bromofluorobenzene	96

Client: TREATEK
Workorder: 2657

IT ANALYTICAL SERVICES
CINCINNATI, OH
(513) 782-4700

TO-14 Volatile Organics

Client Sample ID: SVEC-4
Lab Sample ID: AC1238
Analysis Date: 11/16/93
Dilution Factor: 1.323

CAS #	Compound	Result (ppb v/v)	Detection Limit
75-09-2	Methylene Chloride	0.3 B	0.27
67-66-3	Chloroform	ND	0.27
56-23-5	Carbon Tetrachloride	0.4	0.27
71-43-2	Benzene	ND	0.27
79-01-6	Trichloroethene	0.4	0.27
108-88-3	Toluene	ND	0.27
127-18-4	Tetrachloroethene	1.9	0.27
75-15-0	Carbon Disulfide	5.3	0.4

Surrogate Percent Recoveries

Compound	% Recovery
D4-1,2-Dichloroethane	102
D8-Toluene	101
Bromofluorobenzene	98

W.D. #2657

TREATEK CHAIN OF CUSTODY RECORD

PROJECT NO		PROJECT NAME					NO OF CONTAINERS	DESCRIPTION OF ANALYSIS & BOTTLE TYPE				REMARKS (MEDIA TYPE, PRESERVATIVE, TOTAL OR DISSOLVED METALS, ETC.)		
SAMPLERS (SIGNATURE)		STA. NO.	DATE	TIME	COMP.	GRAB		STATION LOCATION						
2660		Stauffer							Trace	Analysis	3416	500ml	Sample	Case
<i>W. J. DeLoach</i>		SVEC-3	11/2/73	1:55 PM		✓								
		SVEC-4	11/3/73	9:35 AM		✓	G-931105-BRK-014	1	✓	✓		✓	Air	

RELINQUISHED BY (SIGNATURE)	TIME	DATE	RECEIVED BY (SIGNATURE)	TIME	DATE	SHIPPER'S TRACKING NO.
<i>W. J. DeLoach</i>	12:00 pm.	11/5/73	<i>Richard W. Plummer</i> IAS-G.	0915	11/8/73	
RELINQUISHED BY (SIGNATURE)	TIME	DATE	RECEIVED BY (SIGNATURE)	TIME	DATE	REMARKS
						Shipped via Fed Ex
RELINQUISHED BY (SIGNATURE)	TIME	DATE	RECEIVED BY (SIGNATURE)	TIME	DATE	

No 11565
 Sample ready for port + return
 file to be returned 11/8/73 R/W Plummer