

**APPENDIX A**

**NYSDOH LABORATORY RESULTS**

**SITE INVESTIGATION REPORT  
AND  
REMEDIAL ACTION REPORT**

**NYSD E C  
1996 CLEAN WATER / CLEAN AIR BOND ACT  
ENVIRONMENTAL RESTORATION PROJECTS  
TITLE 5**

**MUNICIPAL ASSISTANCE BROWNFIELD PROGRAM  
ENVIRONMENTAL RESTORATION PROJECT**

**FOR THE  
FORMER AMERICAN LAFRANCE SITE  
100 LAFRANCE STREET  
ELMIRA, NEW YORK**

**RECEIVED**

**FEB 23 2000**

**DER/HAZ. WASTE REGION 8  
REGION 8**

VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

Fagen 10/27  
NYSDEC SAMPLE NO.

Lab Name: \_\_\_\_\_

Contract: \_\_\_\_\_

\_\_\_\_\_

Lab Code: \_\_\_\_\_

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) \_\_\_\_\_

Lab Sample ID: L39148-1

Sample wt/vol: \_\_\_\_\_ (g/mL)

Lab File ID: 19447.1

Level: (low/med) \_\_\_\_\_

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: \_\_\_\_\_

GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

Dilution Factor: \_\_\_\_\_

Soil Extract Volume: \_\_\_\_\_ (µL)

Soil Aliquot Volume: \_\_\_\_\_ (µL)

Number TICs found: 0

CONCENTRATION UNITS:  
(µg/L or µg/Kg) \_\_\_\_\_

R13281  
dun  
10/12/09

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
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26.				
27.				
28.				
29.				
30.				

vdy



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 26-OCT-1999


LAB SAMPLE ID L39648-2

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	FRIEND LABORATROY, INC.
ORIGIN	95-045-90-25
DESCRIPTION	TRIP BLANK
SAMPLED ON	07-OCT-99 00:00 by LAB
DATE RECEIVED	08-OCT-99 15:19
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
EPA 8260						
Chloromethane	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Vinyl chloride	U	ug/l	2	11-OCT-99	EPA 8260	99-158-9446
Chloroethane	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Bromomethane	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
1,1-Dichloroethene	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Acetone	U	ug/l	25	11-OCT-99	EPA 8260	99-158-9446
Carbon disulfide	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Methylene chloride	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
trans-1,2-Dichloroethene	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
1,1-Dichloroethane	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
cis-1,2-Dichloroethene	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Methyl ethyl ketone (2-Butanone)	U	ug/l	25	11-OCT-99	EPA 8260	99-158-9446
Chloroform	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
1,1,1-Trichloroethane	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Carbon tetrachloride	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Benzene	U	ug/l	0.7	11-OCT-99	EPA 8260	99-158-9446
1,2-Dichloroethane	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Trichloroethene	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
1,2-Dichloropropane	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Bromodichloromethane	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
cis-1,3-Dichloropropene	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Methyl isobutyl ketone	U	ug/l	10	11-OCT-99	EPA 8260	99-158-9446
Toluene	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
trans-1,3-Dichloropropene	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
1,1,2-Trichloroethane	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Tetrachloroethene	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
2-Hexanone	U	ug/l	10	11-OCT-99	EPA 8260	99-158-9446
Dibromochloromethane	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Chlorobenzene	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Ethylbenzene	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
p-Xylene/m-Xylene	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
o-Xylene	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Styrene	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
Bromoform	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446
1,1,2,2-Tetrachloroethane	U	ug/l	5	11-OCT-99	EPA 8260	99-158-9446

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)  
 mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)  
 B = analyte was detected in the method or trip blank J = result estimated below the quantitation limit

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Our samples will be discarded after 14 days unless we are advised otherwise.

"Our family, caring about your analytical needs... Since 1963."



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 26-OCT-1999

LAB SAMPLE ID : L39648-2

Fagan Engineers  
Steve Degerdon  
113 East Chemung Place  
Elmira, NY 14904

SAMPLE SOURCE	FRIEND LABORATROY, INC.
ORIGIN	95-045-90-25
DESCRIPTION	TRIP BLANK
SAMPLED ON	07-OCT-99 00:00 by LAB
DATE RECEIVED	08-OCT-99 15:19
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Library Search Compounds:	Results	Units	Qual	Retention Time		
Surrogate Recovery:						
Dibromofluoromethane	105	%				99-158-9446
Toluene-d8	99	%				99-158-9446
4-Bromofluorobenzene	104	%				99-158-9446

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)  
 mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)  
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VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

NYSDEC SAMPLE NO.

10/23

Lab Name: \_\_\_\_\_

Contract: \_\_\_\_\_


Lab Code: \_\_\_\_\_

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) \_\_\_\_\_

Lab Sample ID: C39648-2

Sample wt/vol: \_\_\_\_\_ (g/mL)

Lab File ID: 09446.d

Level: (low/med) \_\_\_\_\_

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: \_\_\_\_\_

GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

Dilution Factor: \_\_\_\_\_

Soil Extract Volume: \_\_\_\_\_ (µL)

Soil Aliquot Volume: \_\_\_\_\_ (µL)

Number TICs found: 0

CONCENTRATION UNITS:  
(µg/L or µg/Kg) \_\_\_\_\_

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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*Handwritten signature*

**APPENDIX A**  
**NYSDOH LABORATORY RESULTS**

**ESARCO, Inc.**

PO Box 189, Tarrytown, NY 10591

914-524-5027 Fax: 524-5035

## PROJECT NARRATIVE

### INTRODUCTION

This report presents analytical results of Soil Samples taken on June 29, 1999 at The American LaFrance Site in Elmira NY. Four (4) Soil Samples + one (1) Field Duplicate Sample were taken. One Soil Sample was also identified for a Matrix Spike / Matrix Spike Duplicate Analysis. All samples were analyzed for the following:

TAL Metals by	EPA 6010 and 7470
TCL BNAs by	EPA 8270
TCL Pesticides by	EPA 8081
TCL PCBs by	EPA 8082
Total Solids by	CLP 3.0

### SAMPLING

Soil Samples were taken by representatives of Fagan Engineering and hand delivered to Friend Laboratory, Inc. under Chain of Custody. Clean Sample containers were prepared and delivered to Fagan Engineers. All samples were taken in two (2) sixteen (16)oz Glass Jars with Teflon lined lids

The samples were received by Friend Laboratory, Inc under Chain of Custody. The temperature of the coolers was determined to be 17.9 °C. However, the cooler was packed with wet ice and the samples had only been taken between two (2) and three (3) hours earlier.

### ANALYSIS

The individual sample reports for the results of the analyses are included in the main report. All tests were performed within the prescribed holding time requirements as stated in The Project Sampling and Analytical Plan.

### QA/QC PROCEDURE

A full ASP Category B Deliverables Package has been produced and is included in the report package. It should be noted that providing ASP Deliverables for non-ASP Test Methods requires some modification to the ASP reporting format as well as evaluation. Friend Laboratory, Inc. has followed all deviations specified in The Sampling and Analytical Plan. A comprehensive QC narrative is included with the deliverable package.

*John P. McGuire*



ENVIRONMENTAL MONITORING • MICROBIOLOGY  
ANALYTICAL CHEMISTRY • AIR QUALITY  
INFORMATION MANAGEMENT

ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
TELEPHONE (607) 565-3500 FAX (607) 565-4083

**FAGAN ENGINEERS**

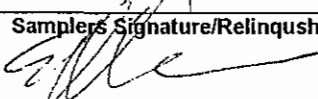
**AMERICAN LAFRANCE**

**SAMPLED: JUNE 29, 1999**



<b>FLI</b>		Friend Laboratory, Inc. 1 Research Circle Waverly, NY 14892 Phone:(607)-565-3500 Fax:(607)-565-4083		Client: Fagan Engineers Attn to: Steve Degerdon Address: 113 East Chemung Place Elmira, NY 14904 Phone: (607)734-2165 Fax: (607)734-2169		Invoice to: ESARCO, Inc. Attn to: John McGuire Address: PO Box 189 Tarrytown, NY 10591			
Sample Site: American LaFrance NYS ID# B00011-8		P.O. #		Project No./Name: Project # 97-150		Copy To: ESARCO, Inc. John McGuire Address: PO Box 189 Tarrytown, NY 10591			
Date & Time of Sample Collection		Origin		Number of Containers		Analyses / Tests Requested		Sample Number (Lab Use Only)	
6-29-99		S-ALFH1-062999 11:20 AM		2		TAL Metals, Total Cyanide, EPA 8270 TCL BNAs, EPA 8081 TCL Pesticides, EPA 8082 PCBs, Total Solids		-1	
6-29-99		S-ALFH2-062999 11:40 AM		2		TAL Metals, Total Cyanide, EPA 8270 TCL BNAs, EPA 8081 TCL Pesticides, EPA 8082 PCBs, Total Solids		-2	
6-29-99		S-ALFH3-062999 11:50		2		TAL Metals, Total Cyanide, EPA 8270 TCL BNAs, EPA 8081 TCL Pesticides, EPA 8082 PCBs, Total Solids		-3	
6-29-99		S-ALFH4-062999 12:00		2		TAL Metals, Total Cyanide, EPA 8270 TCL BNAs, EPA 8081 TCL Pesticides, EPA 8082 PCBs, Total Solids		-4	
Samplers Signature/Relinquished By		Date / Time		Accepted By		Date / Time		Notes to Laboratory	
		6-29-99 @ 2:30 PM		Stacey Matthews		6-29-99 2:30		17.9 temp as we would	
Relinquished By		Date / Time		Accepted By		Date / Time		No Ice in bag next to samples	
				Lond Jones		6/29/99 2:42			
Relinquished By		Date / Time		Accepted By		Date / Time		Suspected Contamination Level None Slight Moderate High (please circle)	

**NOT PAID**

<b>FLI</b> Friend Laboratory, Inc. 1 Research Circle Waverly, NY 14892 Phone: (607)-565-3500 Fax: (607)-565-4083	Untreated Sodium thiosulfate HCL ph <2 Ascorbic acid & HCL ph <2 HNO3 ph <2 H2SO4 ph <2 NaOH ph >12 NaOH & Zinc acetate ph >9 Acetic Buffer ph <3 Sodium Sulfite	Client: Fagan Engineers Attn to: Steve Degerdon Address: 113 East Chemung Place Elmira, NY 14904 Phone: (607)734-2165 Fax: (607)734-2169	Invoice to: ESARCO, Inc. Attn to: John McGuire Address: PO Box 189 Tarrytown, NY 10591	
		Sample Site: American LaFrance NYS ID# B00011-8  P.O. #	Project No./Name: Project # 97-150	Copy To: ESARCO, Inc. John McGuire Address: PO Box 189 Tarrytown, NY 10591
Date & Time of Sample Collection	Origin	Number of Containers	Analyses / Tests Requested	Sample Number (Lab Use Only)
6-29-99	S-ALF H4-062999 MS/MSD 12:00	2	TAL Metals, Total Cyanide, EPA 8270 TCL BNAs, EPA 8081 TCL Pesticides, EPA 8082 PCBs, Total Solids	-5, -6
6-29-99	S-ALF Dup-062999 12:10	2	TAL Metals, Total Cyanide, EPA 8270 TCL BNAs, EPA 8081 TCL Pesticides, EPA 8082 PCBs, Total Solids	-67
Samplers Signature/Relinquished By 	Date / Time	Accepted By	Date / Time	Notes to Laboratory
Relinquished By	Date / Time	Accepted By	Date / Time	
Relinquished By	Date / Time	Accepted By	Date / Time	
				Suspected Contamination Level None Slight Moderate High (please circle)

L35879

NOT PAID

## Laboratory Chronicle

# FLI

FRIEND  
LABORATORY  
INC

The sample fractions listed below are released by the Sample Custodian for analysis. The recipient of these samples is legally responsible for the integrity and safekeeping of these samples in accordance with FLI evidentiary custody procedures. Residual sample(s) must be returned as a set to the Sample Custodian. Use departmental custody logs to transfer extracts, digestates and distillates to the Sample Custodian after completion of analysis.

Lab Department Semiwal  
Fraction/Parameter 8270

SDG/Project Fagan/American Saffron

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L35879-1				
	L35879-2				
	L35879-3				
	L35879-4				
	L35879-5				
	L35879-6				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Shannon M Bennett	7-7-99	1200	Keith A Doherty	7-7-99	1500	(R)
1	Keith A Doherty	7-7-99	1650	Shannon M Bennett	7-7-99	1650	(L)
2							
2							
3							
3							

\* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

This form is transferred with samples. It MUST be returned to the Sample Custodian after completion of analysis.

## Laboratory Chronicle

**FLI**  
FRIEND  
LABORATORY  
INC

The sample fractions listed below are released by the Sample Custodian for analysis. The recipient of these samples is legally responsible for the integrity and safekeeping of these samples in accordance with FLI evidentiary custody procedures. Residual sample(s) must be returned as a set to the Sample Custodian. Use departmental custody logs to transfer extracts, digestates and distillates to the Sample Custodian after completion of analysis.

Lab Department   *isemivol*    
 Fraction/Parameter   *8082*  

SDG/Project   *Fagan/American Lagrance*  

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	<i>L35879-1</i>				
	<i>L35879-2</i>				
	<i>L35879-3</i>				
	<i>L35879-4</i>				
	<i>L35879-5</i>				
	<i>L35879-6</i>				
	<i>L35879-7</i>	<i>KAD</i>			

Number	Relinquished By	Date	Time	Received By	Date	Time	*
<i>1</i>	<i>L396esin 19</i>	<i>6/30/05</i>	<i>13:15</i>	<i>Kathy D...</i>	<i>6-30</i>	<i>13:15</i>	<i>R</i>
<i>1</i>	<i>K D...</i>	<i>7-12-09</i>	<i>0810</i>	<i>Shannon M Bennett</i>	<i>7/6/09</i>	<i>810</i>	<i>R</i>
<i>2</i>							
<i>2</i>							
<i>3</i>							
<i>3</i>							

\* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

This form is transferred with samples. It MUST be returned to the Sample Custodian after completion of analysis.

## Laboratory Chronicle

# FLI

**FRIEND  
LABORATORY  
INC**

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Lab Department Removal  
 Fraction/Parameter 8081

SDG/Project Fagan/American Lagrance

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L35879-1				
	L35879-2				
	L35879-3				
	L35879-4				
	L35879-5				
	L35879-6				
	L35879-7 (CAL)				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Liza Grewel	6/30/99	13:15	Kate Dwyer	7/1/99	13:15	
1	Kathy A. Dwyer	7-1-99	08:10	Shannon M. Bennett	7/1/99	8:10	
2							
2							
3							
3							

\* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

This form is transferred with samples. It MUST be returned to the Sample Custodian after completion of analysis.

## Laboratory Chronicle

**FLI**  
FRIEND  
LABORATORY  
INC

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Lab Department Metals  
 Fraction/Parameter TAL

SDG/Project Fagan/American Refrance

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L35879-1				
	L35879-2				
	L35879-3				
	L35879-4				
	L35879-5				
	L35879-6				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	<i>J. J. Shoult</i>	7/8/99	8:00	<i>C. E. Burleigh</i>	7/8/99	8:00	
1	<i>C. E. Burleigh</i>	7/12/99	8:00	<i>R. J. Shoult</i>	7/12/99	8:00	
2							
2							
3							
3							

\* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

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## Laboratory Chronicle

**FLI**

FRIEND  
LABORATORY  
INC

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Lab Department Wetchem  
Fraction/Parameter Cyanide

SDG/Project Fagan/American Lagrance

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L35879-1				
	L35879-2				
	L35879-3				
	L35879-4				
	L35879-5				
	L35879-6				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	<u>Land Jarvis</u>	<u>7/6/99</u>	<u>0800</u>	<u>Brian Bualin</u>	<u>7/6/99</u>	<u>0600</u>	
1	<u>Brian Bualin</u>	<u>7/6/99</u>	<u>1700</u>	<u>Land Jarvis</u>	<u>7/6/99</u>	<u>1700</u>	
2							
2							
3							
3							

\* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

This form is transferred with samples. It MUST be returned to the Sample Custodian after completion of analysis.

## Laboratory Chronicle

**FLI**  
FRIEND  
LABORATORY  
INC

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Lab Department Wetchem  
 Fraction/Parameter Total Solids

SDG/Project Fagan/American Lagrange

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	235879-1				
	L35879-2				
	L35879-3				
	L35879-4				
	<del>L35879-5</del>				
	L35879-6				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Lisa L. Gould	6/30/99	7:50	Jill Stupka	6/30/99	7:50	
1	Jill Stupka	6/30/99	16:30	Shannon Belmont	6/30/99	16:30	
2							
2							
3							
3							

\* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

This form is transferred with samples. It MUST be returned to the Sample Custodian after completion of analysis.





ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999


LAB SAMPLE ID L35879-1

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALPH1-062999 97-150
DESCRIPTION	GRAB, NYS ID# B00011-8
SAMPLED ON	29-JUN-99 11:20 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Cyanide, Total	U	mg/kg	0.648	07-JUL-99	EPA 335.3	99-003-36
Total Solids	75.47	%		30-JUN-99	CLP 3.0	97-070-122
Aluminum	6580	mg/kg	8.89	14-JUL-99	EPA 6010	99-137-07
Antimony	U	mg/kg	6.29	16-JUL-99	EPA 6010	99-137-08
Arsenic	U	mg/kg	14.2	14-JUL-99	EPA 6010	99-137-07
Barium	194	mg/kg	1.90	14-JUL-99	EPA 6010	99-137-07
Beryllium	0.481	mg/kg	0.237	14-JUL-99	EPA 6010	99-137-07
Cadmium	3.15	mg/kg	0.5920	14-JUL-99	EPA 6010	99-137-07
Calcium	10200	mg/kg	59.2	14-JUL-99	EPA 6010	99-137-07
Chromium	51.9	mg/kg	1.19	14-JUL-99	EPA 6010	99-137-07
Cobalt	6.21	mg/kg	1.19	14-JUL-99	EPA 6010	99-137-07
Copper	228	mg/kg	2.01	14-JUL-99	EPA 6010	99-137-07
Iron	21600	mg/kg	4.74	14-JUL-99	EPA 6010	99-137-07
Lead	570	mg/kg	5.21	14-JUL-99	EPA 6010	99-137-07
Magnesium	3290	mg/kg	59.2	14-JUL-99	EPA 6010	99-137-07
Manganese	469	mg/kg	0.592	14-JUL-99	EPA 6010	99-137-07
Mercury	0.58	mg/kg	0.0140	09-JUL-99	EPA 7470	98-126-31
Nickel	28.8	mg/kg	1.42	14-JUL-99	EPA 6010	99-137-07
Potassium	892	mg/kg	59.2	14-JUL-99	EPA 6010	99-137-07
Selenium	U	mg/kg	8.29	14-JUL-99	EPA 6010	99-137-07
Silver	U	mg/kg	1.19	14-JUL-99	EPA 6010	99-137-07

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID L35879-1

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH1-062999 97-150
DESCRIPTION	GRAB, NYS ID# B00011-8
SAMPLED ON	29-JUN-99 11:20 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Sodium	200	mg/kg	23.6	14-JUL-99	EPA 6010	99-137-07
Thallium	U	mg/kg	7.70	14-JUL-99	EPA 6010	99-137-07
Vanadium	15.8	mg/kg	1.19	14-JUL-99	EPA 6010	99-137-07
Zinc	634	mg/kg	2.37	14-JUL-99	EPA 6010	99-137-07
EPA 8081						
alpha-BHC 1	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
beta-BHC 2	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
Lindane (gamma-BHC) 3	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
delta-BHC 4	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
Heptachlor 5	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
Aldrin 6	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
Heptachlor epoxide 7	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
alpha-Chlordane 8	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
Endosulfan I 9	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
gamma-Chlordane 10	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
4,4'-DDE 11	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
Dieldrin 12	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
Endrin 13	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
Endosulfan II 14	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
4,4'-DDD 15	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
Endrin ketone 16	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
Endrin aldehyde 17	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
Endosulfan sulfate 18	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
4,4'-DDT 19	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
Methoxychlor 20	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3912
Toxaphene 21	U	ug/l	0.27	29-JUL-99	EPA 8081	99-100-3912
Surrogate Recovery: Decachlorobiphenyl	71	%				99-100-3912

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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DATE 05-AUG-1999

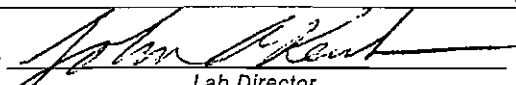
LAB SAMPLE ID L35879-1

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH1-062999 97-150
DESCRIPTION	GRAB, NYS ID# B00011-8
SAMPLED ON	29-JUN-99 11:20 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
<b>EPA 8082</b>						
PCB 1016	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3912
PCB 1221	U	mg/kg	0.11	29-JUL-99	EPA 8082	99-100-3912
PCB 1232	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3912
PCB 1242	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3912
PCB 1248	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3912
PCB 1254	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3912
PCB 1260	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3912
Surrogate Recovery: Decachlorobiphenyl	71	%				99-100-3912
<b>EPA 8270</b>						
Bis(2-chloroethylether)	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Phenol	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
2-Chlorophenol	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
1,3-Dichlorobenzene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
1,4-Dichlorobenzene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
1,2-Dichlorobenzene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Bis(2-chloroisopropylether)	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
2-Methylphenol	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Hexachloroethane	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
N-Nitrosodi-N-propylamine	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
3-Methylphenol/4-Methylphenol	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Nitrobenzene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Isophorone	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
2-Nitrophenol	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
2,4-Dimethylphenol	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Bis(2-chloroethoxymethane)	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
2,4-Dichlorophenol	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
1,2,4-Trichlorobenzene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Naphthalene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
4-Chloroaniline	U	ug/kg	3300	20-JUL-99	EPA 8270	97-186-12463
Hexachlorobutadiene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
4-Chloro-3-methylphenol	U	ug/kg	3300	20-JUL-99	EPA 8270	97-186-12463
2-Methylnaphthalene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Hexachlorocyclopentadiene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
2,4,6-Trichlorophenol	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
2,4,5-Trichlorophenol	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
2-Chloronaphthalene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

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 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID L35879-1

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH1-062999 97-150
DESCRIPTION	GRAB, NYS ID# B00011-8
SAMPLED ON	29-JUN-99 11:20 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
2-Nitroaniline	U	ug/kg	6500	20-JUL-99	EPA 8270	97-186-12463
Dimethyl phthalate	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Acenaphthylene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
2,6-Dinitrotoluene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
3-Nitroaniline	U	ug/kg	6500	20-JUL-99	EPA 8270	97-186-12463
Acenaphthene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
2,4-Dinitrophenol	U	ug/kg	6500	20-JUL-99	EPA 8270	97-186-12463
Dibenzofuran	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
2,4-Dinitrotoluene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
4-Nitrophenol	U	ug/kg	6500	20-JUL-99	EPA 8270	97-186-12463
Diethyl phthalate	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Fluorene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
4-Chlorophenylphenylether	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
4-Nitroaniline	U	ug/kg	6500	20-JUL-99	EPA 8270	97-186-12463
2-Methyl-4,6-dinitrophenol	U	ug/kg	6500	20-JUL-99	EPA 8270	97-186-12463
N-Nitrosodiphenylamine	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
4-Bromophenylphenylether	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Hexachlorobenzene	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Pentachlorophenol	U	ug/kg	6500	20-JUL-99	EPA 8270	97-186-12463
Phenanthrene	8900	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Anthracene	2000	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Carbazole	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Di-n-butyl phthalate	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Fluoranthene	19000	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Pyrene	25000	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Butylbenzyl phthalate	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Benzo(a)anthracene	11000	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
3,3-Dichlorobenzidine	U	ug/kg	3300	20-JUL-99	EPA 8270	97-186-12463
Chrysene	9100	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Bis-2-ethylhexyl phthalate	2000	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Di-n-octyl phthalate	U	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Benzo(b)fluoranthene	14000 J	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Benzo(k)fluoranthene	6300 J	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Benzo(a)pyrene	11000 J	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Indeno(1,2,3-cd)pyrene	6600 J	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Dibenzo(a,h)anthracene	U, J	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463
Benzo(g,h,i)perylene	5300 J	ug/kg	1600	20-JUL-99	EPA 8270	97-186-12463

Extraction Information:

10-JUL-99 EPA 3540 98-174-154

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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DATE 05-AUG-1999

LAB SAMPLE ID L35879-1

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH1-062999 97-150
DESCRIPTION	GRAB, NYS ID# B00011-8
SAMPLED ON	29-JUN-99 11:20 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
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Library Search Compounds:

Library Search Compounds:	Results	Units	Qual	Retention Time
Unknown	1.6	mg/kg	J	29.05
Unknown	1.9	mg/kg	J	29.3
Unknown	1.3	mg/kg	J	31.55
Unknown	1.4	mg/kg	J	32.7
Unknown	1.5	mg/kg	J	33.38
Unknown	2.4	mg/kg	J	39.74
Unknown	6.2	mg/kg	J	40.12
Unknown	2.8	mg/kg	J	42.46

Surrogate Recovery:

Terphenyl-d14	133	%		97-186-12463
2-Fluorophenol	70	%		97-186-12463
Phenol-d5	70	%		97-186-12463
2,4,6-Tribromophenol	82	%		97-186-12463
Nitrobenzene-d5	82	%		97-186-12463
2-Fluorobiphenyl	87	%		97-186-12463

Analysis Comment: Dry weight basis. J - Estimated value, int std 6 low.

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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1 F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

NYSDEC SAMPLE NO. \_\_\_\_\_

Lab Name: \_\_\_\_\_

Contract: \_\_\_\_\_

Lab Code: \_\_\_\_\_

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) \_\_\_\_\_

Lab Sample ID: L35879-1

Sample wt/vol: \_\_\_\_\_ (g/mL)

Lab File ID: A12463.d

Level: (low/med) \_\_\_\_\_

Date Received: \_\_\_\_\_

% Moisture: decanted: (Y/N) \_\_\_\_\_

Date Extracted: \_\_\_\_\_

Concentrated Extract Volume: \_\_\_\_\_ (µL)

Date Analyzed: \_\_\_\_\_

Injection Volume: \_\_\_\_\_ (µL)

Dilution Factor: \_\_\_\_\_

GPC Cleanup: (Y/N) \_\_\_\_\_

pH: \_\_\_\_\_

Number TICs found: 8

CONCENTRATION UNITS:  
(µg/L or µg/Kg) mg/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	29.05	1.6	J
2.		29.30	1.9	
3.		31.55	1.3	
4.		32.70	1.4	
5.		33.38	1.5	
6.		39.74	2.4	
7.		40.12	6.2	
8.		42.46	2.8	
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30.				

FORM I-CLP-SV-TIC

*Handwritten signature:* K.M. 2/22/99



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999


LAB SAMPLE ID L35879-2

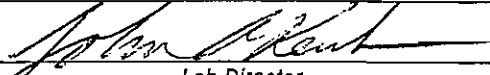
Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH2-062999 97-150
DESCRIPTION	GRAB, NYS ID# B00011-8
SAMPLED ON	29-JUN-99 11:40 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Cyanide, Total	U	mg/kg	0.548	07-JUL-99	EPA 335.3	99-003-36
Total Solids	83.23	%		30-JUN-99	CLP 3.0	97-070-122
Aluminum	7860	mg/kg	8.44	14-JUL-99	EPA 6010	99-137-07
Antimony	U	mg/kg	5.62	14-JUL-99	EPA 6010	99-137-07
Arsenic	U	mg/kg	13.4	14-JUL-99	EPA 6010	99-137-07
Barium	162	mg/kg	1.80	14-JUL-99	EPA 6010	99-137-07
Beryllium	0.544	mg/kg	0.225	14-JUL-99	EPA 6010	99-137-07
Cadmium	0.99	mg/kg	0.5620	14-JUL-99	EPA 6010	99-137-07
Calcium	21700	mg/kg	56.2	14-JUL-99	EPA 6010	99-137-07
Chromium	13.9	mg/kg	1.13	14-JUL-99	EPA 6010	99-137-07
Cobalt	6.77	mg/kg	1.13	14-JUL-99	EPA 6010	99-137-07
Copper	364	mg/kg	1.91	14-JUL-99	EPA 6010	99-137-07
Iron	19800	mg/kg	4.50	14-JUL-99	EPA 6010	99-137-07
Lead	265	mg/kg	4.95	14-JUL-99	EPA 6010	99-137-07
Magnesium	7190	mg/kg	56.2	14-JUL-99	EPA 6010	99-137-07
Manganese	597	mg/kg	0.562	14-JUL-99	EPA 6010	99-137-07
Mercury	6.5	mg/kg	0.2200	09-JUL-99	EPA 7470	98-126-31
Nickel	25.5	mg/kg	1.35	14-JUL-99	EPA 6010	99-137-07
Potassium	1000	mg/kg	56.2	14-JUL-99	EPA 6010	99-137-07
Selenium	U	mg/kg	7.87	14-JUL-99	EPA 6010	99-137-07
Silver	U	mg/kg	1.13	14-JUL-99	EPA 6010	99-137-07

Page 1

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID L35879-2

Fagan Engineers  
Steve Degerdon  
113 East Chemung Place  
Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH2-062999 97-150
DESCRIPTION	GRAB, NYS ID# B00011-8
SAMPLED ON	29-JUN-99 11:40 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Sodium	63	mg/kg	22.4	14-JUL-99	EPA 6010	99-137-07
Thallium	U	mg/kg	7.31	14-JUL-99	EPA 6010	99-137-07
Vanadium	15	mg/kg	1.13	14-JUL-99	EPA 6010	99-137-07
Zinc	264	mg/kg	2.25	14-JUL-99	EPA 6010	99-137-07
EPA 8081						
alpha-BHC	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
beta-BHC	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
Lindane (gamma-BHC)	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
delta-BHC	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
Heptachlor	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
Aldrin	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
Heptachlor epoxide	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
alpha-Chlordane	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
Endosulfan I	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
gamma-Chlordane	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
4,4'-DDE	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
Dieldrin	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
Endrin	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
Endosulfan II	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
4,4'-DDD	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
Endrin ketone	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
Endrin aldehyde	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
Endosulfan sulfate	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
4,4'-DDT	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
Methoxychlor	U	ug/l	0.03	29-JUL-99	EPA 8081	99-100-3913
Toxaphene	U	ug/l	0.3	29-JUL-99	EPA 8081	99-100-3913
Surrogate Recovery: Decachlorobiphenyl	70	%				99-100-3913

Page 2

QC C NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)  
 mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)  
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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID L35879-2

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH2-062999 97-150
DESCRIPTION	GRAB, NYS ID# B00011-8
SAMPLED ON	29-JUN-99 11:40 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
<b>EPA 8082</b>						
PCB 1016	U	mg/kg	0.06	29-JUL-99	EPA 8082	99-100-3913
PCB 1221	U	mg/kg	0.12	29-JUL-99	EPA 8082	99-100-3913
PCB 1232	U	mg/kg	0.06	29-JUL-99	EPA 8082	99-100-3913
PCB 1242	U	mg/kg	0.06	29-JUL-99	EPA 8082	99-100-3913
PCB 1248	U	mg/kg	0.06	29-JUL-99	EPA 8082	99-100-3913
PCB 1254	U	mg/kg	0.06	29-JUL-99	EPA 8082	99-100-3913
PCB 1260	1.4	mg/kg	0.06	29-JUL-99	EPA 8082	99-100-3913
Surrogate Recovery: Decachlorobiphenyl	70	%				99-100-3913
<b>EPA 8270</b>						
Bis(2-chloroethylether)	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Phenol	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
2-Chlorophenol	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
1,3-Dichlorobenzene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
1,4-Dichlorobenzene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
1,2-Dichlorobenzene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Bis(2-chloroisopropylether)	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
2-Methylphenol	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Hexachloroethane	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
N-Nitrosodi-N-propylamine	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
3-Methylphenol/4-Methylphenol	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Nitrobenzene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Isophorone	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
2-Nitrophenol	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
2,4-Dimethylphenol	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Bis(2-chloroethoxymethane)	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
2,4-Dichlorophenol	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
1,2,4-Trichlorobenzene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Naphthalene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
4-Chloroaniline	U	ug/kg	540	16-JUL-99	EPA 8270	97-186-12433
Hexachlorobutadiene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
4-Chloro-3-methylphenol	U	ug/kg	540	16-JUL-99	EPA 8270	97-186-12433
2-Methylnaphthalene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Hexachlorocyclopentadiene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
2,4,6-Trichlorophenol	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
2,4,5-Trichlorophenol	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
2-Chloronaphthalene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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DATE 05-AUG-1999

LAB SAMPLE ID L35879-2

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH2-062999 97-150
DESCRIPTION	GRAB, NYS ID# B00011-8
SAMPLED ON	29-JUN-99 11:40 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
2-Nitroaniline	U	ug/kg	1100	16-JUL-99	EPA 8270	97-186-12433
Dimethyl phthalate	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Acenaphthylene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
2,6-Dinitrotoluene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
3-Nitroaniline	U	ug/kg	1100	16-JUL-99	EPA 8270	97-186-12433
Acenaphthene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
2,4-Dinitrophenol	U	ug/kg	1100	16-JUL-99	EPA 8270	97-186-12433
Dibenzofuran	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
2,4-Dinitrotoluene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
4-Nitrophenol	U	ug/kg	1100	16-JUL-99	EPA 8270	97-186-12433
Diethyl phthalate	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Fluorene	290	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
4-Chlorophenylphenylether	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
4-Nitroaniline	U	ug/kg	1100	16-JUL-99	EPA 8270	97-186-12433
2-Methyl-4,6-dinitrophenol	U	ug/kg	1100	16-JUL-99	EPA 8270	97-186-12433
N-Nitrosodiphenylamine	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
4-Bromophenylphenylether	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Hexachlorobenzene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Pentachlorophenol	U	ug/kg	1100	16-JUL-99	EPA 8270	97-186-12433
Phenanthrene	3900	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Anthracene	790	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Carbazole	490	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Di-n-butyl phthalate	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Fluoranthene	5400	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Pyrene	5800	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Butylbenzyl phthalate	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Benzo(a)anthracene	2700	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
3,3-Dichlorobenzidine	U	ug/kg	540	16-JUL-99	EPA 8270	97-186-12433
Chrysene	2700	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Bis-2-ethylhexyl phthalate	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Di-n-octyl phthalate	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Benzo(b)fluoranthene	2900	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Benzo(k)fluoranthene	1200	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Benzo(a)pyrene	2400	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Indeno(1,2,3-cd)pyrene	1400	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Dibenzo(a,h)anthracene	U	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433
Benzo(g,h,i)perylene	1400	ug/kg	270	16-JUL-99	EPA 8270	97-186-12433

Extraction Information:

10-JUL-99 EPA 3540 98-174-154

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID L35879-2

Fagan Engineers  
Steve Degerdon  
113 East Chemung Place  
Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH2-062999 97-150
DESCRIPTION	GRAB, NYS ID# B00011-8
SAMPLED ON	29-JUN-99 11:40 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
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Library Search Compounds:	Results	Units	Qual	Retention Time
Unknown	.22	mg/kg	J	6.68
Unknown	.27	mg/kg	J	25.76
Unknown	.22	mg/kg	J	26.78
Unknown	.22	mg/kg	J	27.21
Unknown	.47	mg/kg	J	29
Unknown	.71	mg/kg	J	29.09
Unknown	.84	mg/kg	J	29.33
Unknown	.38	mg/kg	J	29.42
Unknown	.26	mg/kg	J	29.91
Unknown	.4	mg/kg	J	29.98
Unknown	.29	mg/kg	J	30.07
Unknown	.41	mg/kg	J	30.79
Unknown	.29	mg/kg	J	31.07
Unknown	.22	mg/kg	J	31.5
Unknown	.37	mg/kg	J	33.09
Unknown	.32	mg/kg	J	33.41
Unknown	.24	mg/kg	J	34.74
Unknown	.42	mg/kg	J	39.81
Unknown	2	mg/kg	J	40.16

Surrogate Recovery:			
Terphenyl-d14	126	%	97-186-12433
2-Fluorophenol	93	%	97-186-12433
Phenol-d5	98	%	97-186-12433
2,4,6-Tribromophenol	104	%	97-186-12433
Nitrobenzene-d5	92	%	97-186-12433
2-Fluorobiphenyl	92	%	97-186-12433

Analysis Comment: Results Calculated on a dry weight basis.

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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1 F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

NYSDEC SAMPLE NO. \_\_\_\_\_

Lab Name: \_\_\_\_\_

Contract: \_\_\_\_\_

Lab Code: \_\_\_\_\_

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) \_\_\_\_\_

Lab Sample ID: L35879-2

Sample wt/vol: \_\_\_\_\_ (g/mL)

Lab File ID: A12433.d

Level: (low/med) \_\_\_\_\_

Date Received: \_\_\_\_\_

% Moisture: decanted: (Y/N) \_\_\_\_\_

Date Extracted: \_\_\_\_\_

Concentrated Extract Volume: \_\_\_\_\_ (µL)

Date Analyzed: \_\_\_\_\_

Injection Volume: \_\_\_\_\_ (µL)

Dilution Factor: \_\_\_\_\_

GPC Cleanup: (Y/N) \_\_\_\_\_

pH: \_\_\_\_\_

Number TICs found: 20 19

CONCENTRATION UNITS:  
(µg/L or µg/Kg) mg/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	6.68	0.22	J
2.		<del>10.46</del>	<del>0.33</del>	
3.		25.76	0.27	
4.		26.78	0.22	
5.		27.21	0.22	
6.		29.00	0.47	
7.		29.09	0.71	
8.		29.33	0.84	
9.		29.42	0.38	
10.		29.91	0.26	
11.		29.98	0.40	
12.		30.07	0.29	
13.		30.79	0.41	
14.		31.07	0.29	
15.		31.50	0.22	
16.		33.09	0.37	
17.		33.41	0.32	
18.		34.74	0.24	
19.		39.81	0.42	
20.		40.16	2.0	
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I-CLP-SV-TIC

*Handwritten signature:* K... 7/22/99



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID : L35879-3

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH3-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 11:50 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Cyanide, Total	U	mg/kg	0.626	07-JUL-99	EPA 335.3	99-003-36
Total Solids	82.32	%		30-JUN-99	CLP 3.0	97-070-122
Aluminum	12500	mg/kg	9.05	14-JUL-99	EPA 6010	99-137-07
Antimony	U	mg/kg	6.04	14-JUL-99	EPA 6010	99-137-07
Arsenic	U	mg/kg	14.4	14-JUL-99	EPA 6010	99-137-07
Barium	125	mg/kg	1.93	14-JUL-99	EPA 6010	99-137-07
Beryllium	0.706	mg/kg	0.241	14-JUL-99	EPA 6010	99-137-07
Cadmium	0.929	mg/kg	0.6030	14-JUL-99	EPA 6010	99-137-07
Calcium	10100	mg/kg	60.3	14-JUL-99	EPA 6010	99-137-07
Chromium	18.7	mg/kg	1.21	14-JUL-99	EPA 6010	99-137-07
Cobalt	9.85	mg/kg	1.21	14-JUL-99	EPA 6010	99-137-07
Copper	135	mg/kg	2.05	14-JUL-99	EPA 6010	99-137-07
Iron	30200	mg/kg	96.5	14-JUL-99	EPA 6010	99-137-07
Lead	88.9	mg/kg	5.31	14-JUL-99	EPA 6010	99-137-07
Magnesium	3750	mg/kg	60.3	14-JUL-99	EPA 6010	99-137-07
Manganese	659	mg/kg	0.603	14-JUL-99	EPA 6010	99-137-07
Mercury	0.089	mg/kg	0.0110	09-JUL-99	EPA 7470	98-126-31
Nickel	30.3	mg/kg	1.45	14-JUL-99	EPA 6010	99-137-07
Potassium	1410	mg/kg	60.3	14-JUL-99	EPA 6010	99-137-07
Selenium	U	mg/kg	8.45	14-JUL-99	EPA 6010	99-137-07
Silver	U	mg/kg	1.21	14-JUL-99	EPA 6010	99-137-07

3C NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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LAB SAMPLE ID L35879-3

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 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH3-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 11:50 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Sodium	52.5	mg/kg	24.1	14-JUL-99	EPA 6010	99-137-07
Thallium	U	mg/kg	7.85	14-JUL-99	EPA 6010	99-137-07
Vanadium	20.6	mg/kg	1.21	14-JUL-99	EPA 6010	99-137-07
Zinc	189	mg/kg	2.41	14-JUL-99	EPA 6010	99-137-07
EPA 8081						
alpha-BHC	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
beta-BHC	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
Lindane (gamma-BHC)	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
delta-BHC	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
Heptachlor	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
Aldrin	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
Heptachlor epoxide	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
alpha-Chlordane	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
Endosulfan I	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
gamma-Chlordane	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
4,4'-DDE	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
Dieldrin	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
Endrin	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
Endosulfan II	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
4,4'-DDD	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
Endrin ketone	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
Endrin aldehyde	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
Endosulfan sulfate	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
4,4'-DDT	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
Methoxychlor	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3914
Toxaphene	U	ug/l	0.23	29-JUL-99	EPA 8081	99-100-3914
Surrogate Recovery: Decachlorobiphenyl	60	%				99-100-3914

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)  
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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID L35879-3

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH3-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 11:50 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
<b>EPA 8082</b>						
PCB 1016	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3914
PCB 1221	U	mg/kg	0.09	29-JUL-99	EPA 8082	99-100-3914
PCB 1232	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3914
PCB 1242	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3914
PCB 1248	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3914
PCB 1254	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3914
PCB 1260	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3914
Surrogate Recovery: Decachlorobiphenyl	60	%				99-100-3914
<b>EPA 8270</b>						
Bis(2-chloroethylether)	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Phenol	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
2-Chlorophenol	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
1,3-Dichlorobenzene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
1,4-Dichlorobenzene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
1,2-Dichlorobenzene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Bis(2-chloroisopropylether)	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
2-Methylphenol	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Hexachloroethane	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
N-Nitrosodi-N-propylamine	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
3-Methylphenol/4-Methylphenol	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Nitrobenzene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Isophorone	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
2-Nitrophenol	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
2,4-Dimethylphenol	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Bis(2-chloroethoxymethane)	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
2,4-Dichlorophenol	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
1,2,4-Trichlorobenzene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Naphthalene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
4-Chloroaniline	U	ug/kg	5900	23-JUL-99	EPA 8270	97-186-12506
Hexachlorobutadiene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
4-Chloro-3-methylphenol	U	ug/kg	5900	23-JUL-99	EPA 8270	97-186-12506
2-Methylnaphthalene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Hexachlorocyclopentadiene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
2,4,6-Trichlorophenol	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
2,4,5-Trichlorophenol	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
2-Chloronaphthalene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506

Page 3

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID L35879-3

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

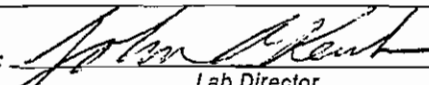
SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH3-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 11:50 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
2-Nitroaniline	U	ug/kg	12000	23-JUL-99	EPA 8270	97-186-12506
Dimethyl phthalate	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Acenaphthylene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
2,6-Dinitrotoluene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
3-Nitroaniline	U	ug/kg	12000	23-JUL-99	EPA 8270	97-186-12506
Acenaphthene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
2,4-Dinitrophenol	U	ug/kg	12000	23-JUL-99	EPA 8270	97-186-12506
Dibenzofuran	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
2,4-Dinitrotoluene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
4-Nitrophenol	U	ug/kg	12000	23-JUL-99	EPA 8270	97-186-12506
Diethyl phthalate	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Fluorene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
4-Chlorophenylphenylether	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
4-Nitroaniline	U	ug/kg	12000	23-JUL-99	EPA 8270	97-186-12506
2-Methyl-4,6-dinitrophenol	U	ug/kg	12000	23-JUL-99	EPA 8270	97-186-12506
N-Nitrosodiphenylamine	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
4-Bromophenylphenylether	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Hexachlorobenzene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Pentachlorophenol	U	ug/kg	12000	23-JUL-99	EPA 8270	97-186-12506
Phenanthrene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Anthracene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Carbazole	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Di-n-butyl phthalate	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Fluoranthene	3600	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Pyrene	3800	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Butylbenzyl phthalate	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Benzo(a)anthracene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
3,3-Dichlorobenzidine	U	ug/kg	5900	23-JUL-99	EPA 8270	97-186-12506
Chrysene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Bis-2-ethylhexyl phthalate	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Di-n-octyl phthalate	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Benzo(b)fluoranthene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Benzo(k)fluoranthene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Benzo(a)pyrene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Indeno(1,2,3-cd)pyrene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Dibenzo(a,h)anthracene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506
Benzo(g,h,i)perylene	U	ug/kg	2900	23-JUL-99	EPA 8270	97-186-12506

Extraction Information:

10-JUL-99 EPA 3540 98-174-154

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
TELEPHONE (607) 565-8500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID : L35879-3

Fagan Engineers  
Steve Degerdon  
113 East Chemung Place  
Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH3-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 11:50 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
<b>Library Search Compounds:</b>						
		Results	Units	Qual	Retention Time	
UNKNOWN	2.3	mg/kg	J	32.53		
UNKNOWN	3.2	mg/kg	J	40.29		
<b>Surrogate Recovery:</b>						
Terphenyl-d14	141	D	%			97-186-12506
2-Fluorophenol	96		%			97-186-12506
Phenol-d5	108		%			97-186-12506
2,4,6-Tribromophenol	97		%			97-186-12506
Nitrobenzene-d5	98		%			97-186-12506
2-Fluorobiphenyl	105		%			97-186-12506
Analysis Comment: Dry weight basis. D - Surr std diluted out.						

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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1 F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

NYSDEC SAMPLE NO. \_\_\_\_\_

Lab Name: \_\_\_\_\_

Contract: \_\_\_\_\_

Lab Code: \_\_\_\_\_

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) \_\_\_\_\_

Lab Sample ID: L35879-3

Sample wt/vol: \_\_\_\_\_ (g/mL)

Lab File ID: A12506.d

Level: (low/med) \_\_\_\_\_

Date Received: \_\_\_\_\_

% Moisture: decanted: (Y/N) \_\_\_\_\_

Date Extracted: \_\_\_\_\_

Concentrated Extract Volume: \_\_\_\_\_ (µL)

Date Analyzed: \_\_\_\_\_

Injection Volume: \_\_\_\_\_ (µL)

Dilution Factor: \_\_\_\_\_

GPC Cleanup: (Y/N) \_\_\_\_\_

pH: \_\_\_\_\_

Number TICs found: 2

CONCENTRATION UNITS:  
(µg/L or µg/Kg) mg/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	32.53	2.3	J
2.	↓	40.29	3.2	↓
3.				
4.				
5.				
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30.				

R11385  
7/10/09

FORM I-CLP-SV-TIC



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID : L35879-4

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH4-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 12:00 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Cyanide, Total	U	mg/kg	0.596	07-JUL-99	EPA 335.3	99-003-36
Total Solids	83.52	%		30-JUN-99	CLP 3.0	97-070-122
Aluminum	8530	mg/kg	8.92	14-JUL-99	EPA 6010	99-137-07
Antimony	U	mg/kg	5.96	16-JUL-99	EPA 6010	99-137-08
Arsenic	U	mg/kg	14.2	14-JUL-99	EPA 6010	99-137-07
Barium	157	mg/kg	1.90	14-JUL-99	EPA 6010	99-137-07
Beryllium	0.601	mg/kg	0.238	14-JUL-99	EPA 6010	99-137-07
Cadmium	1.36	mg/kg	0.5940	14-JUL-99	EPA 6010	99-137-07
Calcium	10500	mg/kg	59.4	14-JUL-99	EPA 6010	99-137-07
Chromium	19.3	mg/kg	1.19	14-JUL-99	EPA 6010	99-137-07
Cobalt	7.72	mg/kg	1.19	14-JUL-99	EPA 6010	99-137-07
Copper	264	mg/kg	2.02	14-JUL-99	EPA 6010	99-137-07
Iron	29000	mg/kg	95.0	14-JUL-99	EPA 6010	99-137-07
Lead	221	mg/kg	5.23	14-JUL-99	EPA 6010	99-137-07
Magnesium	3860	mg/kg	59.4	14-JUL-99	EPA 6010	99-137-07
Manganese	557	mg/kg	0.594	14-JUL-99	EPA 6010	99-137-07
Mercury	1.7	mg/kg	0.1100	09-JUL-99	EPA 7470	98-126-31
Nickel	23.1	mg/kg	1.43	14-JUL-99	EPA 6010	99-137-07
Potassium	1080	mg/kg	59.4	14-JUL-99	EPA 6010	99-137-07
Selenium	U	mg/kg	8.32	14-JUL-99	EPA 6010	99-137-07
Silver	U	mg/kg	1.19	14-JUL-99	EPA 6010	99-137-07

Page 1

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

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 Lab Director

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DATE 05-AUG-1999

LAB SAMPLE ID : L35879-4

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH4-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 12:00 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Sodium	103	mg/kg	23.7	14-JUL-99	EPA 6010	99-137-07
Thallium	U	mg/kg	7.73	14-JUL-99	EPA 6010	99-137-07
Vanadium	19.4	mg/kg	1.19	14-JUL-99	EPA 6010	99-137-07
Zinc	301	mg/kg	2.38	14-JUL-99	EPA 6010	99-137-07
EPA 8081						
alpha-BHC	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
beta-BHC	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
Lindane (gamma-BHC)	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
delta-BHC	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
Heptachlor	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
Aldrin	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
Heptachlor epoxide	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
alpha-Chlordane	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
Endosulfan I	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
gamma-Chlordane	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
4,4'-DDE	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
Dieldrin	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
Endrin	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
Endosulfan II	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
4,4'-DDD	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
Endrin ketone	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
Endrin aldehyde	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
Endosulfan sulfate	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
4,4'-DDT	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
Methoxychlor	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3915
Toxaphene	U	ug/l	0.22	29-JUL-99	EPA 8081	99-100-3915
Surrogate Recovery: Decachlorobiphenyl	75					99-100-3915

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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DATE 05-AUG-1999

LAB SAMPLE ID : L35879-4

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH4-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 12:00 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
<b>EPA 8082</b>						
PCB 1016	U	mg/kg	0.04	29-JUL-99	EPA 8082	99-100-3915
PCB 1221	U	mg/kg	0.09	29-JUL-99	EPA 8082	99-100-3915
PCB 1232	U	mg/kg	0.04	29-JUL-99	EPA 8082	99-100-3915
PCB 1242	U	mg/kg	0.04	29-JUL-99	EPA 8082	99-100-3915
PCB 1248	U	mg/kg	0.04	29-JUL-99	EPA 8082	99-100-3915
PCB 1254	U	mg/kg	0.04	29-JUL-99	EPA 8082	99-100-3915
PCB 1260	0.44	mg/kg	0.04	29-JUL-99	EPA 8082	99-100-3915
Surrogate Recovery: Decachlorobiphenyl	75	%				99-100-3915
<b>EPA 8270</b>						
Bis(2-chloroethyl ether)	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Phenol	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
2-Chlorophenol	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
1,3-Dichlorobenzene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
1,4-Dichlorobenzene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
1,2-Dichlorobenzene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Bis(2-chloroisopropyl ether)	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
2-Methylphenol	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Hexachloroethane	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
N-Nitrosodi-N-propylamine	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
3-Methylphenol/4-Methylphenol	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Nitrobenzene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Isophorone	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
2-Nitrophenol	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
2,4-Dimethylphenol	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Bis(2-chloroethoxymethane)	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
2,4-Dichlorophenol	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
1,2,4-Trichlorobenzene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Naphthalene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
4-Chloroaniline	U	ug/kg	600	15-JUL-99	EPA 8270	97-186-12426
Hexachlorobutadiene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
4-Chloro-3-methylphenol	U	ug/kg	600	15-JUL-99	EPA 8270	97-186-12426
2-Methylnaphthalene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Hexachlorocyclopentadiene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
2,4,6-Trichlorophenol	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
2,4,5-Trichlorophenol	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
2-Chloronaphthalene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID :L35879-4

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH4-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 12:00 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
2-Nitroaniline	U	ug/kg	1200	15-JUL-99	EPA 8270	97-186-12426
Dimethyl phthalate	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Acenaphthylene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
2,6-Dinitrotoluene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
3-Nitroaniline	U	ug/kg	1200	15-JUL-99	EPA 8270	97-186-12426
Acenaphthene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
2,4-Dinitrophenol	U	ug/kg	1200	15-JUL-99	EPA 8270	97-186-12426
Dibenzofuran	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
2,4-Dinitrotoluene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
4-Nitrophenol	U	ug/kg	1200	15-JUL-99	EPA 8270	97-186-12426
Diethyl phthalate	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Fluorene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
4-Chlorophenylphenylether	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
4-Nitroaniline	U	ug/kg	1200	15-JUL-99	EPA 8270	97-186-12426
2-Methyl-4,6-dinitrophenol	U	ug/kg	1200	15-JUL-99	EPA 8270	97-186-12426
N-Nitrosodiphenylamine	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
4-Bromophenylphenylether	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Hexachlorobenzene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Pentachlorophenol	U	ug/kg	1200	15-JUL-99	EPA 8270	97-186-12426
Phenanthrene	2900	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Anthracene	550	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Carbazole	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Di-n-butyl phthalate	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Fluoranthene	4000	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Pyrene	4200	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Butylbenzyl phthalate	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Benzo(a)anthracene	1900	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
3,3-Dichlorobenzidine	U	ug/kg	600	15-JUL-99	EPA 8270	97-186-12426
Chrysene	1900	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Bis-2-ethylhexyl phthalate	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Di-n-octyl phthalate	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Benzo(b)fluoranthene	2300	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Benzo(k)fluoranthene	990	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Benzo(a)pyrene	1800	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Indeno(1,2,3-cd)pyrene	990	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Dibenzo(a,h)anthracene	U	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426
Benzo(g,h,i)perylene	1000	ug/kg	300	15-JUL-99	EPA 8270	97-186-12426

Extraction Information:

10-JUL-99 EPA 3540 98-174-154

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID L35879-4

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH4-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 12:00 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
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Library Search Compounds:

Results	Units	Qual	Retention Time	
Unknown	.2	mg/kg	J	25.84
Unknown	.23	mg/kg	J	25.89
Unknown	.25	mg/kg	J	29.1
Unknown	.37	mg/kg	J	29.18
Unknown	.46	mg/kg	J	29.43
Unknown	.24	mg/kg	J	29.52
Unknown	.22	mg/kg	J	30.08
Unknown	.24	mg/kg	J	30.89
Unknown	.46	mg/kg	J	33.19
Unknown	.21	mg/kg	J	33.51
Unknown	.3	mg/kg	J	38.8
Unknown	.97	mg/kg	J	39.94
Unknown	.83	mg/kg	J	40.2
Unknown	1.2	mg/kg	J	40.3
Unknown	.85	mg/kg	J	42.72
Unknown	.55	mg/kg	J	47.74

Surrogate Recovery:

Terphenyl-d14	113	%	97-186-12426
2-Fluorophenol	68	%	97-186-12426
Phenol-d5	73	%	97-186-12426
2,4,6-Tribromophenol	84	%	97-186-12426
Nitrobenzene-d5	73	%	97-186-12426
2-Fluorobiphenyl	91	%	97-186-12426

Analysis Comment: Results Calculated on a dry weight basis.

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

NYSDEC SAMPLE NO.

Lab Name: \_\_\_\_\_

Contract: \_\_\_\_\_

\_\_\_\_\_

Lab Code: \_\_\_\_\_

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) \_\_\_\_\_

Lab Sample ID: L35879-4

Sample wt/vol: \_\_\_\_\_ (g/mL)

Lab File ID: A12426.2

Level: (low/med) \_\_\_\_\_

Date Received: \_\_\_\_\_

% Moisture: decanted: (Y/N) \_\_\_\_\_

Date Extracted: \_\_\_\_\_

Concentrated Extract Volume: \_\_\_\_\_ (µL)

Date Analyzed: \_\_\_\_\_

Injection Volume: \_\_\_\_\_ (µL)

Dilution Factor: \_\_\_\_\_

GPC Cleanup: (Y/N) \_\_\_\_\_

pH: \_\_\_\_\_

Number TICs found: 16

CONCENTRATION UNITS:  
(µg/L or µg/Kg)  mg/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	25.84	0.20	J
2.		25.89	0.23	
3.		29.10	0.25	
4.		29.18	0.37	
5.		29.43	0.46	
6.		29.52	0.24	
7.		30.08	0.22	
8.		30.89	0.24	
9.		33.19	0.46	
10.		33.51	0.21	
11.		38.80	0.30	
12.		39.94	0.97	
13.		40.20	0.83	
14.		40.30	1.2	
15.		42.72	0.85	
16.		47.74	0.55	
17.				
18.				
19.				
20.				
21.				
22.				
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25.				
26.				
27.				
28.				
29.				
30.				

FORM I-CLP-SV-TIC

*Handwritten signature/initials*  
K.M. 7/22/99





ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 15-SEP-1999

LAB SAMPLE ID : L35879-5

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH4-062999 97- 150MS
DESCRIPTION	L35879-4
SAMPLED ON	29-JUN-99 12:00 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Cyanide, Total	4.35	mg/kg	0.532	07-JUL-99	EPA 335.3	99-003-36
Aluminum	9270	mg/kg	8.92	14-JUL-99	EPA 6010	99-137-07
Antimony	23.7	mg/kg	5.22	16-JUL-99	EPA 6010	99-137-08
Arsenic	225	mg/kg	14.2	14-JUL-99	EPA 6010	99-137-07
Barium	374	mg/kg	1.90	14-JUL-99	EPA 6010	99-137-07
Beryllium	6.14	mg/kg	0.238	14-JUL-99	EPA 6010	99-137-07
Cadmium	6.87	mg/kg	0.5950	14-JUL-99	EPA 6010	99-137-07
Calcium	15300	mg/kg	59.5	14-JUL-99	EPA 6010	99-137-07
Chromium	39.8	mg/kg	1.19	14-JUL-99	EPA 6010	99-137-07
Cobalt	62.8	mg/kg	1.19	14-JUL-99	EPA 6010	99-137-07
Copper	235	mg/kg	2.02	14-JUL-99	EPA 6010	99-137-07
Iron	20100	mg/kg	4.75	14-JUL-99	EPA 6010	99-137-07
Lead	241	mg/kg	5.23	14-JUL-99	EPA 6010	99-137-07
Magnesium	4980	mg/kg	59.5	14-JUL-99	EPA 6010	99-137-07
Manganese	678	mg/kg	0.595	14-JUL-99	EPA 6010	99-137-07
Mercury	1.3	mg/kg	0.1200	09-JUL-99	EPA 7470	98-126-31
Nickel	78.7	mg/kg	1.43	14-JUL-99	EPA 6010	99-137-07
Potassium	1930	mg/kg	59.5	14-JUL-99	EPA 6010	99-137-07
Selenium	210	mg/kg	8.32	14-JUL-99	EPA 6010	99-137-07
Silver	5.44	mg/kg	1.19	14-JUL-99	EPA 6010	99-137-07
Sodium	1210	mg/kg	23.8	14-JUL-99	EPA 6010	99-137-07

Page 1

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 15-SEP-1999

LAB SAMPLE ID : L35879-5

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH4-062999 97- 15OMS
DESCRIPTION	L35879-4
SAMPLED ON	29-JUN-99 12:00 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Thallium	229	mg/kg	7.74	14-JUL-99	EPA 6010	99-137-07
Vanadium	71.2	mg/kg	1.19	14-JUL-99	EPA 6010	99-137-07
Zinc	283	mg/kg	2.38	14-JUL-99	EPA 6010	99-137-07
<b>EPA 8081</b>						
beta-BHC	85	%		29-JUL-99	EPA 8081	99-100-3918
Heptachlor	43	%		29-JUL-99	EPA 8081	99-100-3918
Aldrin	113	%		29-JUL-99	EPA 8081	99-100-3918
Dieldrin	139	%		29-JUL-99	EPA 8081	99-100-3918
Endrin	108	%		29-JUL-99	EPA 8081	99-100-3918
4,4'-DDT	319	%		29-JUL-99	EPA 8081	99-100-3918
Surrogate Recovery: Decachlorobiphenyl	85	%				99-100-3918
<b>EPA 8082</b>						
PCB 1016	66	%		29-JUL-99	EPA 8082	99-100-3916
PCB 1260	167	%		29-JUL-99	EPA 8082	99-100-3916
Surrogate Recovery: Decachlorobiphenyl	81	%				99-100-3916
<b>EPA 8270</b>						
Bis(2-chloroethylether)	2100	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Phenol	4300	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
2-Chlorophenol	4400	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
1,3-Dichlorobenzene	2000	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
1,4-Dichlorobenzene	2000	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
1,2-Dichlorobenzene	2000	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Bis(2-chloroisopropylether)	2000	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
2-Methylphenol	2200	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Hexachloroethane	2000	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
N-Nitrosodi-N-propylamine	2400	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
3-Methylphenol/4-Methylphenol	2300	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Nitrobenzene	2200	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Isophorone	2200	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435

Page 2

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

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DATE 15-SEP-1999

LAB SAMPLE ID : L35879-5

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH4-062999 97- 150MS
DESCRIPTION	L35879-4
SAMPLED ON	29-JUN-99 12:00 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
2-Nitrophenol	4100	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
2,4-Dimethylphenol	4000	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Bis(2-chloroethoxymethane)	2200	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
2,4-Dichlorophenol	4400	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
1,2,4-Trichlorobenzene	2200	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Naphthalene	2200	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
4-Chloroaniline	1200	ug/kg	570	16-JUL-99	EPA 8270	97-186-12435
Hexachlorobutadiene	1900	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
4-Chloro-3-methylphenol	5300	ug/kg	570	16-JUL-99	EPA 8270	97-186-12435
2-Methylnaphthalene	2300	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Hexachlorocyclopentadiene	1200	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
2,4,6-Trichlorophenol	5700	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
2,4,5-Trichlorophenol	2500	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
2-Chloronaphthalene	2500	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
2-Nitroaniline	2700	ug/kg	1100	16-JUL-99	EPA 8270	97-186-12435
Dimethyl phthalate	U	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Acenaphthylene	2500	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
2,6-Dinitrotoluene	2800	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
3-Nitroaniline	1800	ug/kg	1100	16-JUL-99	EPA 8270	97-186-12435
Acenaphthene	2800	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
2,4-Dinitrophenol	1400	ug/kg	1100	16-JUL-99	EPA 8270	97-186-12435
Dibenzofuran	2900	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
2,4-Dinitrotoluene	2600	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
4-Nitrophenol	4400	ug/kg	1100	16-JUL-99	EPA 8270	97-186-12435
Diethyl phthalate	U	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Fluorene	3000	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
4-Chlorophenylphenylether	2700	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
4-Nitroaniline	1700	ug/kg	1100	16-JUL-99	EPA 8270	97-186-12435
2-Methyl-4,6-dinitrophenol	3900	ug/kg	1100	16-JUL-99	EPA 8270	97-186-12435
N-Nitrosodiphenylamine	2900	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
4-Bromophenylphenylether	2800	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Hexachlorobenzene	2800	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Pentachlorophenol	4000	ug/kg	1100	16-JUL-99	EPA 8270	97-186-12435
Phenanthrene	5500	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Anthracene	3300	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Carbazole	370	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Di-n-butyl phthalate	2600	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Fluoranthene	6500	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Pyrene	7700	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Butylbenzyl phthalate	3800	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Benzo(a)anthracene	4600	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
3,3-Dichlorobenzidine	U	ug/kg	570	16-JUL-99	EPA 8270	97-186-12435

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 15-SEP-1999

LAB SAMPLE ID :L35879-5

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH4-062999 97- 15OMS
DESCRIPTION	L35879-4
SAMPLED ON	29-JUN-99 12:00 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Chrysene	4500	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Bis-2-ethylhexyl phthalate	3800	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Di-n-octyl phthalate	6900	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Benzo(b)fluoranthene	5000 J	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Benzo(k)fluoranthene	3900 J	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Benzo(a)pyrene	4400 J	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Indeno(1,2,3-cd)pyrene	2800 J	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Dibenzo(a,h)anthracene	U, J	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
Benzo(g,h,i)perylene	3100 J	ug/kg	280	16-JUL-99	EPA 8270	97-186-12435
<u>Extraction Information:</u>				10-JUL-99	EPA 3540	98-174-154
<u>Surrogate Recovery:</u>						
Terphenyl-d14	137	%				97-186-12435
2-Fluorophenol	88	%				97-186-12435
Phenol-d5	93	%				97-186-12435
2,4,6-Tribromophenol	111	%				97-186-12435
Nitrobenzene-d5	81	%				97-186-12435
2-Fluorobiphenyl	91	%				97-186-12435
Analysis Comment: Dry weight basis. J-Estimated int std 6 low.						

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 15-SEP-1999

LAB SAMPLE ID L35879-6

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALPH4-062999 97-150MSD
DESCRIPTION	L35879-4
SAMPLED ON	29-JUN-99 12:00 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Cyanide, Total	U	mg/kg	0.592	07-JUL-99	EPA 335.3	99-003-36
Total Solids	83.38	%		30-JUN-99	CLP 3.0	97-070-122
Aluminum	10300	mg/kg	9.19	14-JUL-99	EPA 6010	99-137-07
Antimony	U	mg/kg	5.95	16-JUL-99	EPA 6010	99-137-08
Arsenic	U	mg/kg	14.7	14-JUL-99	EPA 6010	99-137-07
Barium	178	mg/kg	1.96	14-JUL-99	EPA 6010	99-137-07
Beryllium	0.616	mg/kg	0.245	14-JUL-99	EPA 6010	99-137-07
Cadmium	1.28	mg/kg	0.6130	14-JUL-99	EPA 6010	99-137-07
Calcium	12000	mg/kg	61.2	14-JUL-99	EPA 6010	99-137-07
Chromium	21.4	mg/kg	1.22	14-JUL-99	EPA 6010	99-137-07
Cobalt	8.13	mg/kg	1.22	14-JUL-99	EPA 6010	99-137-07
Copper	240	mg/kg	2.09	14-JUL-99	EPA 6010	99-137-07
Iron	26800	mg/kg	97.8	14-JUL-99	EPA 6010	99-137-07
Lead	242	mg/kg	5.39	14-JUL-99	EPA 6010	99-137-07
Magnesium	4570	mg/kg	61.2	14-JUL-99	EPA 6010	99-137-07
Manganese	644	mg/kg	0.613	14-JUL-99	EPA 6010	99-137-07
Mercury	1.7	mg/kg	0.1200	09-JUL-99	EPA 7470	98-126-31
Nickel	27.5	mg/kg	1.48	14-JUL-99	EPA 6010	99-137-07
Potassium	1140	mg/kg	61.2	14-JUL-99	EPA 6010	99-137-07
Selenium	U	mg/kg	8.58	14-JUL-99	EPA 6010	99-137-07
Silver	U	mg/kg	1.22	14-JUL-99	EPA 6010	99-137-07

Page 1

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 15-SEP-1999

LAB SAMPLE ID : L35879-6

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH4-062999 97-150MSD
DESCRIPTION	L35879-4
SAMPLED ON	29-JUN-99 12:00 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Sodium	91.8	mg/kg	24.4	14-JUL-99	EPA 6010	99-137-07
Thallium	U	mg/kg	7.96	14-JUL-99	EPA 6010	99-137-07
Vanadium	17.9	mg/kg	1.22	14-JUL-99	EPA 6010	99-137-07
Zinc	278	mg/kg	2.45	14-JUL-99	EPA 6010	99-137-07
EPA 8081						
beta-BHC	87	%		29-JUL-99	EPA 8081	99-100-3919
Heptachlor	45	%		29-JUL-99	EPA 8081	99-100-3919
Aldrin	107	%		29-JUL-99	EPA 8081	99-100-3919
Dieldrin	128	%		29-JUL-99	EPA 8081	99-100-3919
Endrin	105	%		29-JUL-99	EPA 8081	99-100-3919
4,4'-DDT	232	%		29-JUL-99	EPA 8081	99-100-3919
Surrogate Recovery: Decachlorobiphenyl	82	%				99-100-3919
EPA 8082						
PCB 1016	66	%		29-JUL-99	EPA 8082	99-100-3917
PCB 1260	154	%		29-JUL-99	EPA 8082	99-100-3917
Surrogate Recovery: Decachlorobiphenyl	73	%				99-100-3917
EPA 8270						
Bis(2-chloroethylether)	1900	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Phenol	4600	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
2-Chlorophenol	4400	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
1,3-Dichlorobenzene	1800	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
1,4-Dichlorobenzene	1800	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
1,2-Dichlorobenzene	1900	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Bis(2-chloroisopropylether)	2100	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
2-Methylphenol	2400	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Hexachloroethane	1800	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
N-Nitrosodi-N-propylamine	2600	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
3-Methylphenol/4-Methylphenol	2400	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436

Page 2

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: *[Signature]*  
 Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 15-SEP-1999

LAB SAMPLE ID L35879-6

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH4-062999 97-150MSD
DESCRIPTION	L35879-4
SAMPLED ON	29-JUN-99 12:00 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Nitrobenzene	2300	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Isophorone	2500	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
2-Nitrophenol	4700	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
2,4-Dimethylphenol	3900	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Bis(2-chloroethoxymethane)	2600	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
2,4-Dichlorophenol	4900	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
1,2,4-Trichlorobenzene	2500	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Naphthalene	2400	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
4-Chloroaniline	1500	ug/kg	590	16-JUL-99	EPA 8270	97-186-12436
Hexachlorobutadiene	2100	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
4-Chloro-3-methylphenol	5600	ug/kg	590	16-JUL-99	EPA 8270	97-186-12436
2-Methylnaphthalene	2700	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Hexachlorocyclopentadiene	1000	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
2,4,6-Trichlorophenol	5800	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
2,4,5-Trichlorophenol	2500	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
2-Chloronaphthalene	2700	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
2-Nitroaniline	2700	ug/kg	1200	16-JUL-99	EPA 8270	97-186-12436
Dimethyl phthalate	U	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Acenaphthylene	2700	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
2,6-Dinitrotoluene	2800	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
3-Nitroaniline	1900	ug/kg	1200	16-JUL-99	EPA 8270	97-186-12436
Acenaphthene	2900	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
2,4-Dinitrophenol	U	ug/kg	1200	16-JUL-99	EPA 8270	97-186-12436
Dibenzofuran	3000	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
2,4-Dinitrotoluene	2700	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
4-Nitrophenol	3700	ug/kg	1200	16-JUL-99	EPA 8270	97-186-12436
Diethyl phthalate	U	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Fluorene	3100	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
4-Chlorophenylphenylether	2900	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
4-Nitroaniline	1600	ug/kg	1200	16-JUL-99	EPA 8270	97-186-12436
2-Methyl-4,6-dinitrophenol	3300	ug/kg	1200	16-JUL-99	EPA 8270	97-186-12436
N-Nitrosodiphenylamine	3000	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
4-Bromophenylphenylether	2900	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Hexachlorobenzene	3000	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Pentachlorophenol	3600	ug/kg	1200	16-JUL-99	EPA 8270	97-186-12436
Phenanthrene	5100	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Anthracene	3300	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Carbazole	U	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Di-n-butyl phthalate	2700	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Fluoranthene	5900	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Pyrene	7200	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Butylbenzyl phthalate	3800	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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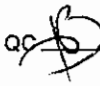
DATE 15-SEP-1999

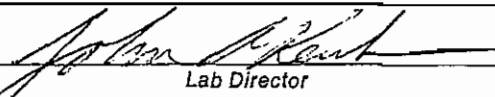
LAB SAMPLE ID : L35879-6

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFH4-062999 97-150MSD
DESCRIPTION	L35879-4
SAMPLED ON	29-JUN-99 12:00 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Benzo(a)anthracene	4500	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
3,3-Dichlorobenzidine	U	ug/kg	590	16-JUL-99	EPA 8270	97-186-12436
Chrysene	4500	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Bis-2-ethylhexyl phthalate	3700	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Di-n-octyl phthalate	6300	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Benzo(b)fluoranthene	4600 J	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Benzo(k)fluoranthene	4200 J	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Benzo(a)pyrene	4400 J	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Indeno(1,2,3-cd)pyrene	3100 J	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Dibenzo(a,h)anthracene	2500 J	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
Benzo(g,h,i)perylene	3300 J	ug/kg	290	16-JUL-99	EPA 8270	97-186-12436
<u>Extraction Information:</u>				10-JUL-99	EPA 3540	98-174-154
Surrogate Recovery:						
Terphenyl-d14	133	%				97-186-12436
2-Fluorophenol	78	%				97-186-12436
Phenol-d5	96	%				97-186-12436
2,4,6-Tribromophenol	111	%				97-186-12436
Nitrobenzene-d5	87	%				97-186-12436
2-Fluorobiphenyl	99	%				97-186-12436
Analysis Comment: Dry weight basis. J - Estimated value, int std 6 low.						

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID L35879-7

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFDUP-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 12:10 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Cyanide, Total	U	mg/kg	0.585	07-JUL-99	EPA 335.3	99-003-36
Total Solids	79.35	%		30-JUN-99	CLP 3.0	97-070-122
Aluminum	6320	mg/kg	8.64	14-JUL-99	EPA 6010	99-137-07
Antimony	U	mg/kg	5.76	14-JUL-99	EPA 6010	99-137-07
Arsenic	U	mg/kg	13.8	14-JUL-99	EPA 6010	99-137-07
Barium	115	mg/kg	1.84	14-JUL-99	EPA 6010	99-137-07
Beryllium	0.451	mg/kg	0.230	14-JUL-99	EPA 6010	99-137-07
Cadmium	U	mg/kg	0.5760	14-JUL-99	EPA 6010	99-137-07
Calcium	7540	mg/kg	57.6	14-JUL-99	EPA 6010	99-137-07
Chromium	12.6	mg/kg	1.15	14-JUL-99	EPA 6010	99-137-07
Cobalt	5.84	mg/kg	1.15	14-JUL-99	EPA 6010	99-137-07
Copper	219	mg/kg	1.96	14-JUL-99	EPA 6010	99-137-07
Iron	16600	mg/kg	4.61	14-JUL-99	EPA 6010	99-137-07
Lead	190	mg/kg	5.07	14-JUL-99	EPA 6010	99-137-07
Magnesium	2590	mg/kg	57.6	14-JUL-99	EPA 6010	99-137-07
Manganese	432	mg/kg	0.576	14-JUL-99	EPA 6010	99-137-07
Mercury	3.4	mg/kg	0.1300	09-JUL-99	EPA 7470	98-126-31
Nickel	18.9	mg/kg	1.38	14-JUL-99	EPA 6010	99-137-07
Potassium	1000	mg/kg	57.6	14-JUL-99	EPA 6010	99-137-07
Selenium	U	mg/kg	8.07	14-JUL-99	EPA 6010	99-137-07
Silver	U	mg/kg	1.15	14-JUL-99	EPA 6010	99-137-07

Page 1

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID L35879-7

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFDUP-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 12:10 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Sodium	51.8	mg/kg	23.0	14-JUL-99	EPA 6010	99-137-07
Thallium	U	mg/kg	7.49	14-JUL-99	EPA 6010	99-137-07
Vanadium	12	mg/kg	1.15	14-JUL-99	EPA 6010	99-137-07
Zinc	186	mg/kg	2.31	14-JUL-99	EPA 6010	99-137-07
EPA 8081						
alpha-BHC	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
beta-BHC	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
Lindane (gamma-BHC)	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
delta-BHC	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
Heptachlor	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
Aldrin	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
Heptachlor epoxide	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
alpha-Chlordane	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
Endosulfan I	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
gamma-Chlordane	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
4,4'-DDE	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
Dieldrin	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
Endrin	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
Endosulfan II	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
4,4'-DDD	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
Endrin ketone	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
Endrin aldehyde	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
Endosulfan sulfate	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
4,4'-DDT	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
Methoxychlor	U	ug/l	0.02	29-JUL-99	EPA 8081	99-100-3920
Toxaphene	U	ug/l	0.24	29-JUL-99	EPA 8081	99-100-3920
Surrogate Recovery: Decachlorobiphenyl	74	%				99-100-3920

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)  
 mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)  
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DATE 05-AUG-1999

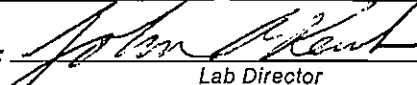
LAB SAMPLE ID L35879-7

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFDUP-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 12:10 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
<b>EPA 8082</b>						
PCB 1016	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3920
PCB 1221	U	mg/kg	0.09	29-JUL-99	EPA 8082	99-100-3920
PCB 1232	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3920
PCB 1242	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3920
PCB 1248	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3920
PCB 1254	U	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3920
PCB 1260	0.65	mg/kg	0.05	29-JUL-99	EPA 8082	99-100-3920
Surrogate Recovery: Decachlorobiphenyl	74	%				99-100-3920
<b>EPA 8270</b>						
Bis(2-chloroethylether)	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Phenol	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
2-Chlorophenol	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
1,3-Dichlorobenzene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
1,4-Dichlorobenzene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
1,2-Dichlorobenzene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Bis(2-chloroisopropylether)	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
2-Methylphenol	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Hexachloroethane	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
N-Nitrosodi-N-propylamine	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
3-Methylphenol/4-Methylphenol	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Nitrobenzene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Isophorone	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
2-Nitrophenol	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
2,4-Dimethylphenol	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Bis(2-chloroethoxymethane)	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
2,4-Dichlorophenol	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
1,2,4-Trichlorobenzene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Naphthalene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
4-Chloroaniline	U	ug/kg	580	20-JUL-99	EPA 8270	97-186-12459
Hexachlorobutadiene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
4-Chloro-3-methylphenol	U	ug/kg	580	20-JUL-99	EPA 8270	97-186-12459
2-Methylnaphthalene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Hexachlorocyclopentadiene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
2,4,6-Trichlorophenol	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
2,4,5-Trichlorophenol	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
2-Chloronaphthalene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)  
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
DATE 05-AUG-1999


LAB SAMPLE ID L35879-7

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFDUP-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 12:10 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
2-Nitroaniline	U	ug/kg	1200	20-JUL-99	EPA 8270	97-186-12459
Dimethyl phthalate	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Acenaphthylene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
2,6-Dinitrotoluene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
3-Nitroaniline	U	ug/kg	1200	20-JUL-99	EPA 8270	97-186-12459
Acenaphthene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
2,4-Dinitrophenol	U	ug/kg	1200	20-JUL-99	EPA 8270	97-186-12459
Dibenzofuran	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
2,4-Dinitrotoluene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
4-Nitrophenol	U	ug/kg	1200	20-JUL-99	EPA 8270	97-186-12459
Diethyl phthalate	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Fluorene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
4-Chlorophenylphenylether	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
4-Nitroaniline	U	ug/kg	1200	20-JUL-99	EPA 8270	97-186-12459
2-Methyl-4,6-dinitrophenol	U	ug/kg	1200	20-JUL-99	EPA 8270	97-186-12459
N-Nitrosodiphenylamine	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
4-Bromophenylphenylether	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Hexachlorobenzene	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Pentachlorophenol	U	ug/kg	1200	20-JUL-99	EPA 8270	97-186-12459
Phenanthrene	2800	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Anthracene	560	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Carbazole	300	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Di-n-butyl phthalate	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Fluoranthene	3900	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Pyrene	3700	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Butylbenzyl phthalate	290	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Benzo(a)anthracene	2100	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
3,3-Dichlorobenzidine	U	ug/kg	580	20-JUL-99	EPA 8270	97-186-12459
Chrysene	2100	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Bis-2-ethylhexyl phthalate	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Di-n-octyl phthalate	U	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Benzo(b)fluoranthene	3100 J	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Benzo(k)fluoranthene	880 J	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Benzo(a)pyrene	2000 J	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Indeno(1,2,3-cd)pyrene	1000 J	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Dibenzo(a,h)anthracene	U, J	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
Benzo(g,h,i)perylene	740 J	ug/kg	290	20-JUL-99	EPA 8270	97-186-12459
<u>Extraction Information:</u>				10-JUL-99	EPA 3540	98-174-154

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

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TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 05-AUG-1999

LAB SAMPLE ID : L35879-7

Fagan Engineers  
Steve Degerdon  
113 East Chemung Place  
Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFDUP-062999 97-150
DESCRIPTION	GRAB, NYS ID#B0011-8
SAMPLED ON	29-JUN-99 12:10 by CLIENT
DATE RECEIVED	29-JUN-99 14:42
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
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Library Search Compounds:

Results	Units	Qual	Retention Time	
Unknown	.25	mg/kg	J	6.59
Unknown	.31	mg/kg	J	28.96
Unknown	.5	mg/kg	J	29.05
Unknown	.65	mg/kg	J	29.29
Unknown	.32	mg/kg	J	29.38
Unknown	.28	mg/kg	J	29.94
Unknown	.32	mg/kg	J	30.75
Unknown	.24	mg/kg	J	31.03
Unknown	.32	mg/kg	J	32.16
Unknown	.25	mg/kg	J	33.04
Unknown	.26	mg/kg	J	33.36
Unknown	.25	mg/kg	J	34.43
Unknown	.27	mg/kg	J	37.61
Unknown	.51	mg/kg	J	38.64
Unknown	2	mg/kg	J	39.74
Unknown	1.3	mg/kg	J	40.1
Unknown	.29	mg/kg	J	40.99
Unknown	2.6	mg/kg	J	42.45

Surrogate Recovery:

Terphenyl-d14	106	%		97-186-12459
2-Fluorophenol	81	%		97-186-12459
Phenol-d5	84	%		97-186-12459
2,4,6-Tribromophenol	96	%		97-186-12459
Nitrobenzene-d5	79	%		97-186-12459
2-Fluorobiphenyl	92	%		97-186-12459

Analysis Comment: Dry weight basis. J - Estimated value, int std 6 low. Conf # A12439.

QC   0   NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: 

Lab Director

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1 F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

NYSDEC SAMPLE NO. \_\_\_\_\_

Lab Name: \_\_\_\_\_

Contract: \_\_\_\_\_

Lab Code: \_\_\_\_\_

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) \_\_\_\_\_

Lab Sample ID: L35879-7

Sample wt/vol: \_\_\_\_\_ (g/mL) \_\_\_\_\_

Lab File ID: A12459.d

Level: (low/med) \_\_\_\_\_

Date Received: \_\_\_\_\_

% Moisture: decanted: (Y/N) \_\_\_\_\_

Date Extracted: \_\_\_\_\_

Concentrated Extract Volume: \_\_\_\_\_ (µL)

Date Analyzed: \_\_\_\_\_

Injection Volume: \_\_\_\_\_ (µL)

Dilution Factor: \_\_\_\_\_

GPC Cleanup: (Y/N) \_\_\_\_\_

pH: \_\_\_\_\_

Number TICs found: 18

CONCENTRATION UNITS:

(µg/L or µg/Kg) mg/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	<u>Unknown</u>	<u>6.59</u>	<u>0.25</u>	<u>J</u>
2.		<u>28.96</u>	<u>0.31</u>	
3.		<u>29.05</u>	<u>0.50</u>	
4.		<u>29.29</u>	<u>0.65</u>	
5.		<u>29.38</u>	<u>0.32</u>	
6.		<u>29.94</u>	<u>0.28</u>	
7.		<u>30.75</u>	<u>0.32</u>	
8.		<u>31.03</u>	<u>0.24</u>	
9.		<u>32.16</u>	<u>0.32</u>	
10.		<u>33.04</u>	<u>0.25</u>	
11.		<u>33.36</u>	<u>0.26</u>	
12.		<u>34.43</u>	<u>0.25</u>	
13.		<u>37.61</u>	<u>0.27</u>	
14.		<u>38.64</u>	<u>0.51</u>	
15.		<u>39.74</u>	<u>2.0</u>	
16.		<u>40.10</u>	<u>1.3</u>	
17.		<u>40.99</u>	<u>0.29</u>	
18.		<u>42.45</u>	<u>2.6</u>	
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I-CLP-SV-TIC

*K117/2/99*

# CHAIN OF CUSTODY RECORD



ONE RESEARCH CIRCLE  
WAVERLY NY 14892-1532  
Telephone (607) 565 3500  
Fax (607) 565 7160

CLIENT: *FE*  
ADDRESS:  
PHONE: FAX:

INVOICE TO: *FE*  
ADDRESS:

Sample Site:

P.O. # *97150*

Untreated  
Sodium thiosulfate  
HCl pH <2  
Ascorbic acid & HCl pH <2  
HNO<sub>3</sub> pH <2  
H<sub>2</sub>SO<sub>4</sub> pH <2  
NaOH pH >12  
NaOH & Zinc acetate pH >9  
Acetic Buffer pH <3  
Sodium sulfite

PROJECT NO. / NAME

*ALF*

COPY TO:  
ADDRESS:

DATE & TIME OF SAMPLE COLLECTION	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	ANALYSES / TESTS REQUESTED	SAMPLE NUMBER
<i>11-2-99</i> <i>930</i>	<i>W-ALFMW1-110299</i>	Description: Grab Composite Other Matrix: DW WW <u>MW</u> Soil Air Other	<i>Full TCL per contact</i>	LAB USE ONLY
<i>11-2-99</i> <i>1000</i>	<i>W-ALFMW3-110299</i>	Description: Grab Composite Other Matrix: DW WW <u>MW</u> Soil Air Other	<i>Full TCL per contact</i>	
<i>11-2-99</i>	<i>W-ALFMW3MS-110299</i>	Description: Grab Composite Other Matrix: DW WW <u>MW</u> Soil Air Other	<i>MS per contact</i>	
<i>11-2-99</i>	<i>W-ALFMW3MSD-110299</i>	Description: Grab Composite Other Matrix: DW WW <u>MW</u> Soil Air Other	<i>MSD per contact</i>	

RELINQUISHED BY	DATE / TIME	ACCEPTED BY	DATE / TIME	NOTES TO LABORATORY
<i>[Signature]</i>	<i>11-2-99</i> <i>5 PM</i>	<i>Stacey Mattles</i>	<i>11/2/99</i> <i>5:00 pm</i>	
				SUSPECTED CONTAMINATION LEVEL NONE SLIGHT MODERATE HIGH (please circle)

# CHAIN OF CUSTODY RECORD



ONE RESEARCH CIRCLE  
 WAVERLY NY 14892-1532  
 Telephone (607) 565 3500  
 Fax (607) 565 7160

CLIENT: *FE*  
 ADDRESS:  
 PHONE: FAX:

INVOICE TO:  
 ADDRESS:

Sample Site:

P.O. # : *97150*

Untreated  
 Sodium thiosulfate  
 HCl pH <2  
 Ascorbic acid & HCl pH <2  
 HNO<sub>3</sub> pH <2  
 H<sub>2</sub>SO<sub>4</sub> pH <2  
 NaOH pH >12  
 NaOH & Zinc acetate pH >9  
 Acetic Buffer pH <3  
 Sodium sulfite

PROJECT NO. / NAME

*ALF*

COPY TO:  
 ADDRESS:

DATE & TIME OF SAMPLE COLLECTION	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	ANALYSES / TESTS REQUESTED	SAMPLE NUMBER
<i>11-2-99</i> <i>12 pm</i>	<i>WALFMWZ-110299</i>	Description: Grab Composite Other Matrix: DW WW <u>MW</u> Soil Air Other	<i>Full TCL per contract</i>	LAB USE ONLY
		Description: Grab Composite Other Matrix: DW WW MW Soil Air Other		
		Description: Grab Composite Other Matrix: DW WW MW Soil Air Other		
		Description: Grab Composite Other Matrix: DW WW MW Soil Air Other		

RELINQUISHED BY	DATE / TIME	ACCEPTED BY	DATE / TIME	NOTES TO LABORATORY
<i>[Signature]</i>	<i>11-2-99</i> <i>5 pm</i>	<i>Stacey Mathews</i>	<i>11/2/99</i> <i>5:00 pm</i>	
				SUSPECTED CONTAMINATION LEVEL NONE SLIGHT MODERATE HIGH (please circle)



**APPENDIX B**

**GEOPHYSICAL SURVEY**

**SITE INVESTIGATION REPORT  
AND  
REMEDIAL ACTION REPORT**

**N Y S D E C  
1996 CLEAN WATER / CLEAN AIR BOND ACT  
ENVIRONMENTAL RESTORATION PROJECTS  
TITLE 5**

**MUNICIPAL ASSISTANCE BROWNFIELD PROGRAM  
ENVIRONMENTAL RESTORATION PROJECT**

**FOR THE  
FORMER AMERICAN LAFRANCE SITE  
100 LAFRANCE STREET  
ELMIRA, NEW YORK**

July 2, 1999

B5414

Stephen G. Degerdon  
Fagan Engineers, PC  
113 E. Chemung Place  
Elmira, NY 14904

Subject: Geophysical Survey Results, American La France Brownfield Site, Elmira, NY

Dear Mr. Degerdon:

This letter report presents the results of the EM31 geophysical investigation performed at the American La France Brownfield Site located in Elmira, New York (Site). This investigation was designed to map the distribution of buried metals in an attempt to identify anomalies indicative of underground storage tanks (USTs). The information provided herein is designed to assist Fagan Engineers with their assessment of potential environmental concerns at the Site.

## **1.0 INTRODUCTION**

A frequency domain electromagnetic (EM) survey was performed at the Site to map the distribution of buried metals in an attempt to identify potential USTs. Geomatrix Consultants performed the data acquisition portion of this work on May 25, 1999.

The Site is the former location of an industrial facility owned by American La France. Above ground structures associated with this facility have since been removed. At the time the geophysical survey was conducted, the site was a grass covered field. A NY State Department of Transportation (NYSDOT) job-site trailer was present along the eastern portion of the survey area. The site is bounded on the south and east by Rome Street and Erie Street, respectively. An above grade railway forms the western boundary. A restaurant and associated parking area is located to the north of the site.

Geophysical techniques used during this investigation identify the presence of buried metal objects and variations in ground conductivity. The limitations of these techniques are discussed below in Section 4. The geophysical data presented herein are intended to serve as a guide to, and focus for, future intrusive investigations, if warranted. Additional collaborative data, such as test pits, is generally warranted to confirm geophysical anomalies suggestive of buried USTs.



Steve Degerdon  
Fagan Engineers, PC  
July 2, 1999  
Page 2

## 2.0 METHODOLOGY

The following sections present the geophysical methodology utilized for this investigation.

### 2.1 Reference Grid

A reference grid was installed by Geomatrix and Fagan Engineers personnel to facilitate data acquisition along lines spaced 12.5 feet apart. The grid consisted of alternating red and yellow 36-inch wire pin flags placed at 25 ft by 100 ft intervals. The survey grid was referenced to existing Site features to allow for the Site CADD map to be overlain onto the geophysical survey result figures. Grid coordinate 0N, 1000E was established at the base of a Stop sign located at the intersection of Rome and Erie Streets. "Grid north" was taken as the trend parallel to Erie Street. Surface features were annotated on-site to assist with geophysical data interpretation.

### 2.2 Electromagnetic Survey Methodology

A Geonics EM31 Terrain Conductivity meter was used to measure and record the quadrature component (ground conductivity) and the inphase component of the EM field along the survey lines. The quadrature component of the EM field is a measurement of the apparent ground conductivity. The inphase component of the EM field is sensitive to metallic objects. Comparison of the quadrature component of the EM field data (expressed in units of milliSiemens per meter (mS/m)) and the inphase component data (expressed in units of parts per thousand (ppt)) results in increased anomaly definition. The character of the EM response, low or high, is partially dependent on the orientation of the buried target relative to the orientation of the EM31 instrument during data acquisition, and the survey direction. A buried metal pipe, for example, will exhibit a high valued response when the trend of the pipe is parallel to the survey direction. Alternatively, when a survey line crosses a buried metal pipe whose trend is perpendicular to the survey direction, it is characterized by a low response. Similarly, other complex buried metal anomalies are indicated by a coupling of a high and low response.

All readings were taken with the instrument oriented parallel to the direction of travel, in the vertical dipole mode and with the instrument at waist height. The depth of penetration with the instrument in this configuration is approximately 12 to 15 feet below ground surface. Data were collected and stored in a solid state memory data logger during the survey. The data logger was interfaced to a portable computer and the data were transferred to a floppy disk for subsequent processing and interpretation. A survey base station was established on-site and was revisited throughout the survey to check for instrument drift and malfunction. No significant drift or malfunction was observed.

Steve Degerdon  
Fagan Engineers, PC  
July 2, 1999  
Page 3

The terrain conductivity and inphase data were initially edited and then plotted as profile lines for interpretation. Contour maps of the data were then constructed and utilized for final interpretation. The geophysical data are presented in final form as a series of color contour maps. The color maps allow for a complete and rapid illustration of detected anomalies that are associated with conductive materials such as buried metals, wastes, fill, utilities, and changes in soil texture and/or moisture content.

### 3.0 RESULTS

The geophysical conductivity and inphase data for the American La France Brownfield Site are presented as color contour maps in Figure 1 and 2, respectively. Actual data measurement points are superimposed on the maps and are shown as closely spaced tick marks. Interpreted linear anomalies are indicated by dashed white lines on the figures.

The conductivity data are presented in Figure 1. Conductivity values at the site were observed to range from approximately 0 to over 100 mS/m. Background conductivity at this site is interpreted to be approximately 10 to 20 mS/m and is shown in shades of green on Figure 1. In general, measured conductivity variations from this background range are indicative of conductive fill material and/or buried metals. Additionally, this variation in conductivity may be related to:

- A change in soil or fill type. For example, an increase in relative clay content may increase the measured conductivity;
- A change in soil moisture.
- A change in pore fluid specific conductance.
- Interference from surface metallic anthropogenic features such as powerlines, fences, pipes, and metallic structures.

The EM-31 inphase data are presented in Figure 2. The inphase component of the electromagnetic field, measured by the EM-31, is most sensitive to buried metals. The inphase response is proportional to the conductivity response in areas of high conductivity. This presents an interpretation challenge at sites such as this one where the conductivity is highly variable over a relatively short lateral distance. Areas exhibiting an inphase response of approximately 0.0 ppt, shown in shades of yellow on Figure 2, are likely free of buried metals within the depth of investigation of the EM-31 (12-15 feet).

Steve Degerdon  
Fagan Engineers, PC  
July 2, 1999  
Page 4

The following labeled anomalies are interpreted to be significant relative to the objective of this investigation. Additional, anomalies were observed in the data set, however they are interpreted to be comparatively minor, related to adjacent anomalies, or related to metals at the surface.

Anomalies A, B, C, D, and E are characterized as a conductivity low response and are best observed in the conductivity data set of Figure 1. Anomalies A and D are also observed as inphase lows on Figure 2. Each of these anomalies may represent USTs or other buried metals.

Anomalies F, G, L, M, N, O and P are characterized as inphase low response anomalies and are best observed in Figure 2. These anomalies may represent USTs or other buried metals.

Anomaly I, J and K are characterized as aerially extensive conductivity highs shown in shades of pink on Figure 2. These anomalies represent remnant foundations containing re-enforced concrete, conductive fill material, and or large USTs.

Anomaly H is a conductivity and inphase low response in the area of the former tar tank. There were some surface metallic debris observed in this area however the aerial extent of this anomaly extends beyond the area of observed surface metals. Anomaly H may represent a UST or other buried or surface metals.

Any of the geophysical anomalies within the data set may represent USTs. The following anomalies are most suggestive of USTs: A, D, F, G, H, and L. This interpretation is based on our analysis of the inphase and conductivity data sets, coupled with our experience in anomaly interpretation.

#### **4.0 LIMITATIONS**

The geophysical methods used during this survey are established, indirect techniques for non-destructive subsurface reconnaissance exploration. As these instruments utilize indirect methods, they are subject to inherent limitations and ambiguities. Metallic surface features (electrical wires, scrap metal, etc.) preclude reliable non-invasive data/results beneath, and in the immediate vicinity of, the surface features. Targets such as buried drums, buried tanks, conduits, etc. are detectable only if they produce recognizable anomalies or patterns against the background geophysical data collected. As with any remote sensing technique, the anomalies identified during a geophysical survey should be further investigated by other techniques such as historical aerial photography, test pitting and/or test boring, if warranted.


Steve Degerdon  
Fagan Engineers, PC  
July 2, 1999  
Page 5

## 5.0 CONCLUSIONS

The geophysical survey at the American La France Brownfield Site appears to have been successful in identifying areas containing buried metals. A total of 16 major buried metal anomalies were identified. These anomalies are labeled A through P on Figures 1 and 2. Of those 16 anomalies, 6 anomalies are most suggestive of USTs. Several linear anomalies were observed in the data and are denoted with dashed white lines on the figures. These linear anomalies may be related to buried pipes, utilities, or the remnants of railroad rails.

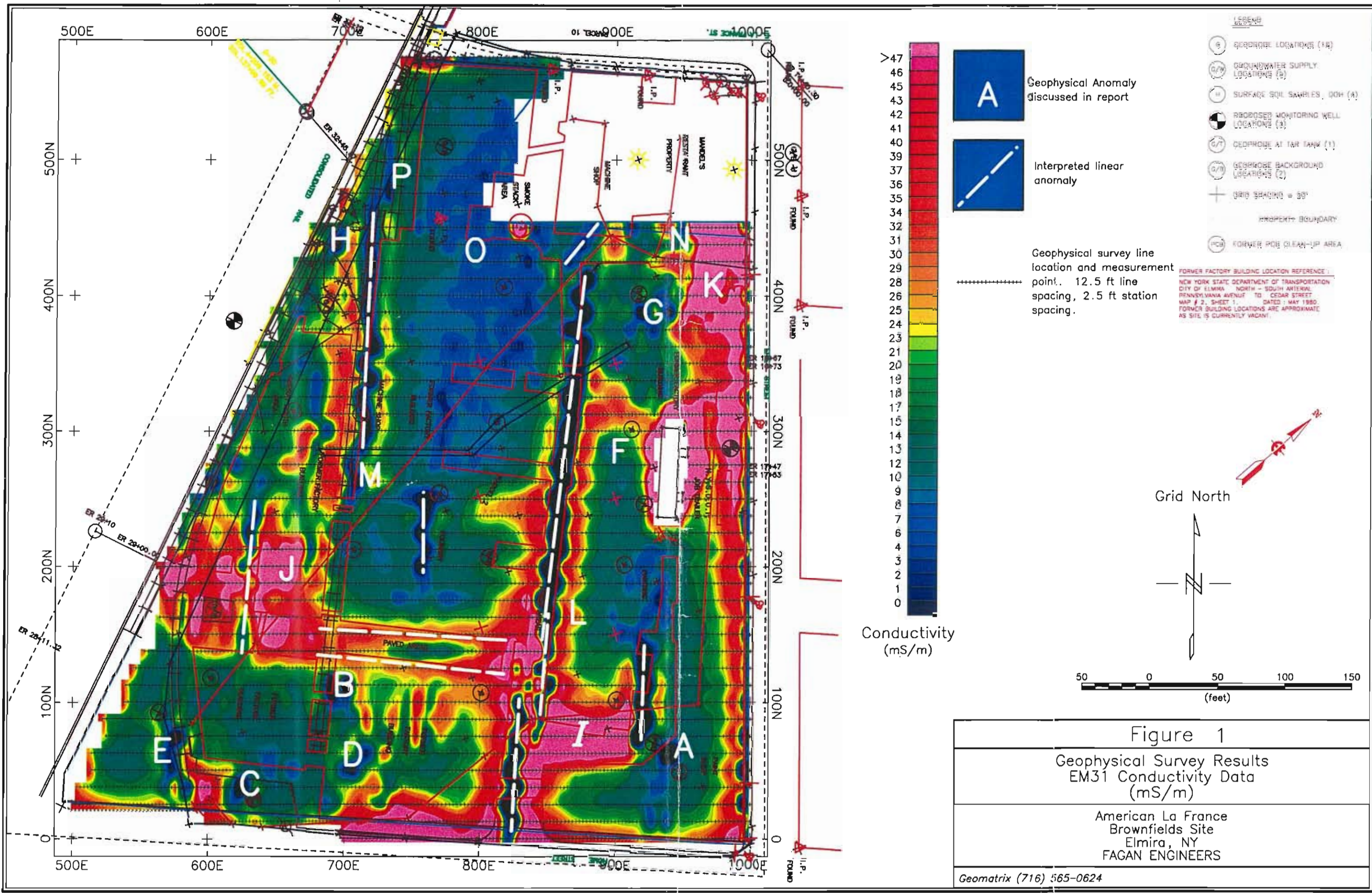
We trust the information contained in this report is sufficient for your present needs. Please do not hesitate to contact us if you have any questions or require additional information.

Sincerely yours,  
GEOMATRIX CONSULTANTS, INC.

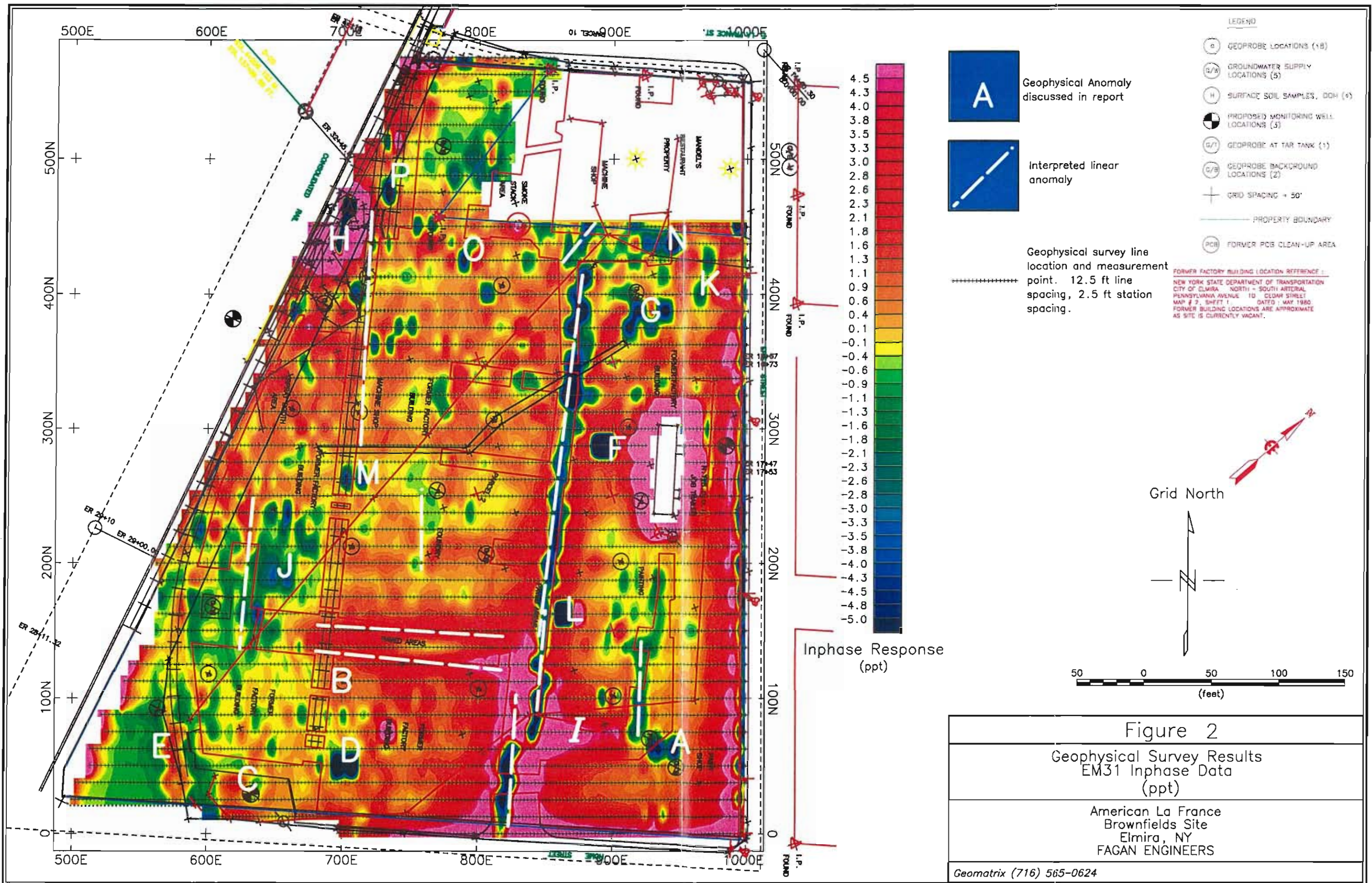
A handwritten signature in cursive script that reads 'John Luttinger'.

John Luttinger  
Project Geophysicist











**APPENDIX C**

**GEOPHYSICAL SURVEY TEST PIT LABORATORY RESULTS**

**SITE INVESTIGATION REPORT  
AND  
REMEDIAL ACTION REPORT**

**N Y S D E C  
1996 CLEAN WATER / CLEAN AIR BOND ACT  
ENVIRONMENTAL RESTORATION PROJECTS  
TITLE 5**

**MUNICIPAL ASSISTANCE BROWNFIELD PROGRAM  
ENVIRONMENTAL RESTORATION PROJECT**

**FOR THE  
FORMER AMERICAN LAFRANCE SITE  
100 LAFRANCE STREET  
ELMIRA, NEW YORK**

**APPENDIX C**

**GEOPHYSICAL SURVEY TEST PIT LABORATORY RESULTS**



ENVIRONMENTAL MONITORING • MICROBIOLOGY  
ANALYTICAL CHEMISTRY • AIR QUALITY  
INFORMATION MANAGEMENT

ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
TELEPHONE (607) 565-3500 FAX (607) 565-4083

**FAGAN ENGINEERS**

**AMERICAN LAFRANCE**

**SAMPLED: AUGUST 3, 1999**

ALBANY, NY

BUFFALO, NY

JAMESTOWN, NY


BOSTON, MA

SYRACUSE, NY

WATERTOWN, NY

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# CHAIN OF CUSTODY RECORD

 <p>ONE RESEARCH CIRCLE WAVERLY NY 14892-1532 Telephone (607) 565 3500 Fax (607) 565 7160</p>		<p>CLIENT: <i>Fagan Engineers</i> ADDRESS: <i>607</i> PHONE: <i>734-2165</i> FAX: <i>734-2169</i></p> <p>INVOICE TO: ADDRESS:</p>				<p>PROJECT NO. / NAME <i>97.150</i></p> <p>COPY TO: ADDRESS:</p>										
<p>Sample Site: <i>ALF</i></p> <p>P.O. # <i>97150-080399</i></p>		<p>Untreated Sodium thiosulfate HCl pH &lt;2 Ascorbic acid &amp; HCl pH &lt;2 HNO<sub>3</sub> pH &lt;2 H<sub>2</sub>SO<sub>4</sub> pH &lt;2 NaOH pH &gt;12 NaOH &amp; Zinc acetate pH &gt;9 Acetic Buffer pH &lt;3 Sodium sulfite</p>				<p>LAB USE ONLY</p>										
DATE & TIME OF SAMPLE COLLECTION	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS			ANALYSES / TESTS REQUESTED	SAMPLE NUMBER										
<i>8-3-99 0937</i>	<i>SOIL # S-ALFTPB-080399 ✓</i>	<table border="1" style="width:100%; height: 100px;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>											<p>Description: <u>Grab</u> Composite Other Matrix: DW WW MW <u>Soil</u> Air Other</p>	<i>TAL metals</i>	<b>L36702</b>	<b>1</b>
					<b>NOT PAID</b>	<b>L36702-1</b>										
RELINQUISHED BY	DATE / TIME	ACCEPTED BY			DATE / TIME	NOTES TO LABORATORY										
<i>[Signature]</i>	<i>8-3-99 1300</i>	<i>[Signature]</i>			<i>8/3/99 13:00</i>											
SUSPECTED CONTAMINATION LEVEL																
NONE <u>(SLIGHT)</u> MODERATE - HIGH (please circle)																

## Laboratory Chronicle

**FLI**  
FRIEND  
LABORATORY  
INC

The sample fractions listed below are released by the Sample Custodian for analysis. The recipient of these samples is legally responsible for the integrity and safekeeping of these samples in accordance with FLI evidentiary custody procedures. Residual sample(s) must be returned as a set to the Sample Custodian. Use departmental custody logs to transfer extracts, digestates and distillates to the Sample Custodian after completion of analysis.

Lab Department Metals  
 Fraction/Parameter TAL

SDG/Project Fagan

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L36702-1				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Shannon M. Burnett	8/6/99	8:33	Joe Burleigh	8/6/99	8:33	
1	Joe Burleigh	8/10/99	8:10	Susan Howard	8/10/99	8:10/99	
2							
2							
3							
3							

\* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

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Lab Department Waterhen  
Fraction/Parameter Total Solids

SDG/Project Fagan

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	<u>L36702-1</u>				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	<u>Shannon Bennett</u>	<u>8/9/99</u>	<u>13:32</u>	<u>Jim Lentz</u>	<u>8/9/99</u>	<u>12:32</u>	
1	<u>Jim Lentz</u>	<u>8/9/99</u>	<u>16:15</u>	<u>Shannon Bennett</u>	<u>8/9/99</u>	<u>16:15</u>	
2							
2							
3							
3							

\* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

This form is transferred with samples. It MUST be returned to the Sample Custodian after completion of analysis.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 19-AUG-1999

LAB SAMPLE ID L36702-1

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE 97.150
ORIGIN	S-ALFTPB-080399
DESCRIPTION	GRAB
SAMPLED ON	03-AUG-99 09:37 by CLIENT
DATE RECEIVED	03-AUG-99 13:00
P.O. NO.	97150-080399

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	78.68	%		09-AUG-99	CLP 3.0	97-070-142
Aluminum	8850	mg/kg	9.33	10-AUG-99	EPA 6010	99-159-01
Antimony	13.4	mg/kg	6.22	10-AUG-99	EPA 6010	99-159-01
Arsenic	17.2	mg/kg	14.9	10-AUG-99	EPA 6010	99-159-01
Barium	234	mg/kg	1.99	10-AUG-99	EPA 6010	99-159-01
Beryllium	0.554	mg/kg	0.249	10-AUG-99	EPA 6010	99-159-01
Cadmium	4.32	mg/kg	0.6220	10-AUG-99	EPA 6010	99-159-01
Calcium	26700	mg/kg	62.2	10-AUG-99	EPA 6010	99-159-01
Chromium	21.8	mg/kg	1.25	10-AUG-99	EPA 6010	99-159-01
Cobalt	9.11	mg/kg	1.25	10-AUG-99	EPA 6010	99-159-01
Copper	1160	mg/kg	2.12	10-AUG-99	EPA 6010	99-159-01
Iron	30400	mg/kg	99.6	10-AUG-99	EPA 6010	99-159-01
Lead	640	mg/kg	5.48	10-AUG-99	EPA 6010	99-159-01
Magnesium	3470	mg/kg	62.2	10-AUG-99	EPA 6010	99-159-01
Manganese	503	mg/kg	0.622	10-AUG-99	EPA 6010	99-159-01
Mercury	0.85	mg/kg	0.0630	11-AUG-99	EPA 7470	98-126-37
Nickel	58.5	mg/kg	1.49	10-AUG-99	EPA 6010	99-159-01
Potassium	997	mg/kg	62.2	10-AUG-99	EPA 6010	99-159-01
Selenium	U	mg/kg	8.71	10-AUG-99	EPA 6010	99-159-01
Silver	U	mg/kg	1.18	18-AUG-99	EPA 6010	99-159-03
Sodium	113	mg/kg	24.8	10-AUG-99	EPA 6010	99-159-01

Page 1

QC *90* NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: *John A. Hart*  
 Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)  
 mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)  
 B = analyte was detected in the method or trip blank J = result estimated below the quantitation limit

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 19-AUG-1999

LAB SAMPLE ID : L36702-1

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE:	AMERICAN LAFRANCE 97.150
ORIGIN:	S-ALFTPB-080399
DESCRIPTION:	GRAB
SAMPLED ON:	03-AUG-99 09:37 by CLIENT
DATE RECEIVED:	03-AUG-99 13:00
P.O. NO.:	97150-080399

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Thallium	U	mg/kg	8.09	10-AUG-99	EPA 6010	99-159-01
Vanadium	16.2	mg/kg	1.25	10-AUG-99	EPA 6010	99-159-01
Zinc	766	mg/kg	2.49	10-AUG-99	EPA 6010	99-159-01

QC 05 NY 10252 NJ 73168 PA 68180 EPA NY 00033

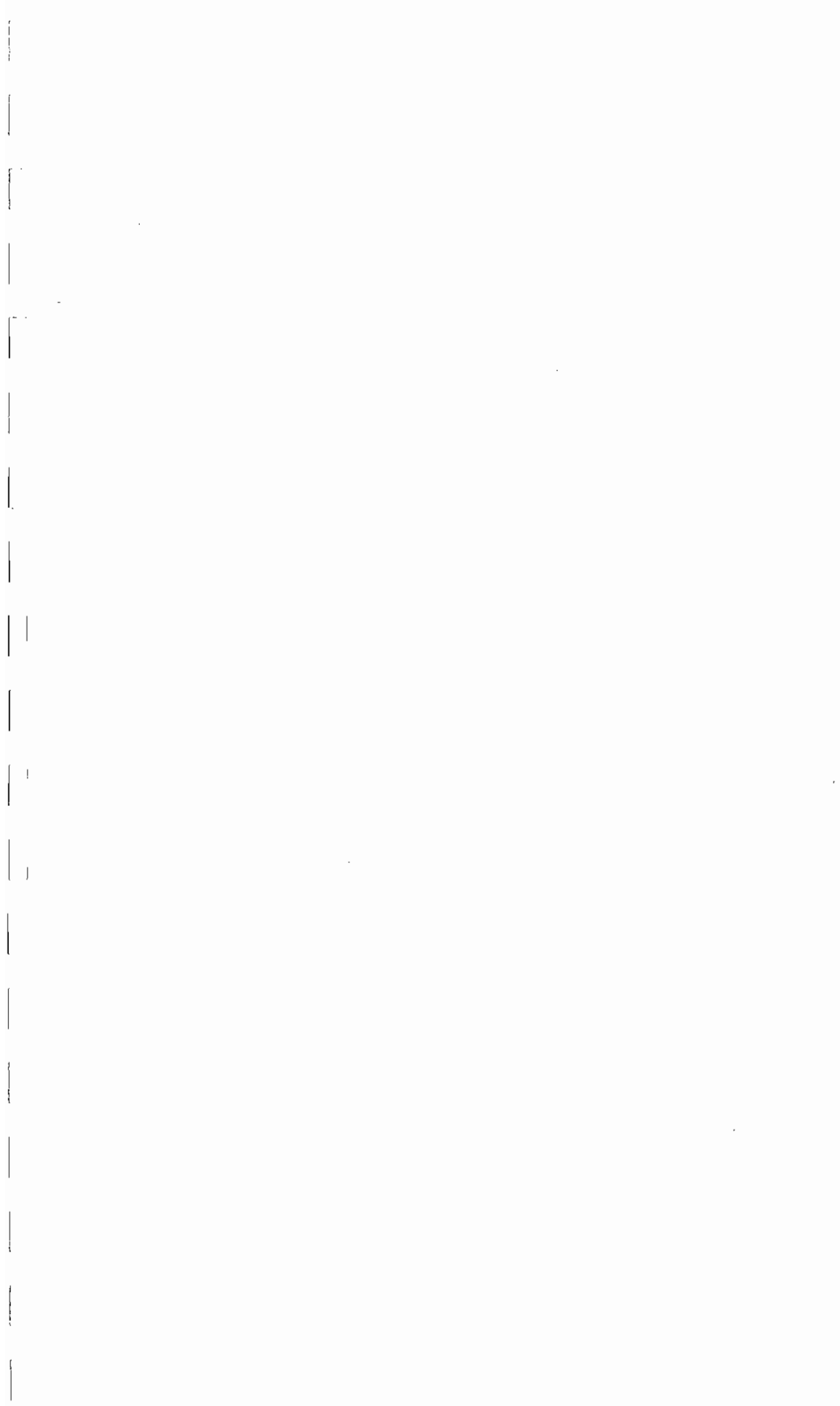
Approved by:   
 Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)  
 mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)  
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**AMERICAN LAFRANCE**

**SAMPLED: AUGUST 9-10, 1999**

# CHAIN OF CUSTODY RECORD

 <p>ONE RESEARCH CIRCLE WAVERLY NY 14892-1532 Telephone (607) 565 3500 Fax (607) 565 7160</p>		<p>CLIENT: <i>Fagan</i></p> <p>ADDRESS:</p> <p>PHONE:                      FAX:</p>			<p>INVOICE TO: ADDRESS:</p>				
<p>Sample Site: <i>ALF</i></p> <p>P.O. # <i>97150A</i></p>		<p>Untreated Sodium thiosulfate HCl pH &lt;2 Ascorbic acid &amp; HCl pH &lt;2 HNO<sub>3</sub> pH &lt;2 H<sub>2</sub>SO<sub>4</sub> pH &lt;2 NaOH pH &gt;12 NaOH &amp; Zinc acetate pH &gt;9 Acetic Buffer pH &lt;3 Sodium sulfite</p>			<p>PROJECT NO. / NAME</p> <p>COPY TO: ADDRESS:</p>				
DATE & TIME OF SAMPLE COLLECTION		SAMPLE DESCRIPTION		NUMBER OF CONTAINERS		ANALYSES / TESTS REQUESTED		SAMPLE NUMBER	
<p><i>8-3-99</i> <i>9:25</i></p>		<p><i>SOIL</i> <i>S-ALFTPJ-080399</i></p>		<p><i>1</i></p> <p>Description: <input checked="" type="checkbox"/> Grab Composite Other Matrix: DW WW MW Soil Air Other</p>		<p><i>TAL Metals</i></p>		<p><i>L37275</i></p>	
<p><i>8-8-99</i> <i>1040</i></p>		<p><i>SOIL</i> <i>S-ALFTPJ-080999</i></p>		<p><i>1</i></p> <p>Description: <input checked="" type="checkbox"/> Grab Composite Other Matrix: DW WW MW Soil Air Other</p>		<p><i>TAL Metals</i></p>		<p><i>-1</i></p>	
<p><i>8-10-99</i> <i>1440</i></p>		<p><i>TAR</i> <i>S-ALTPH1-081099</i></p>		<p><i>3</i></p> <p>Description: <input checked="" type="checkbox"/> Grab Composite Other Matrix: DW WW MW Soil Air <input checked="" type="checkbox"/> Other</p>		<p><i>Full TCC Analysis</i> <i>suspect diesel based tar</i></p>		<p><i>-2</i></p>	
<p><i>8-10-99</i> <i>1440</i></p>		<p><i>TAR</i> <i>S-ALTPH2-081099</i></p>		<p><i>1</i></p> <p>Description: <input checked="" type="checkbox"/> Grab Composite Other Matrix: DW WW MW Soil Air <input checked="" type="checkbox"/> Other</p>		<p><i>full TCCP no pests/herbs</i> <i>suspect diesel based tar</i></p>		<p><i>-3</i></p>	
RELINQUISHED BY		DATE / TIME		ACCEPTED BY		DATE / TIME		NOTES TO LABORATORY	
<p>SAMPLER <i>[Signature]</i></p>		<p><i>8-16-99</i> <i>1545</i></p>		<p><i>Stacey Muller</i></p>		<p><i>8-10-99</i> <i>3:45</i></p>			
								SUSPECTED CONTAMINATION LEVEL	
								NONE    SLIGHT    MODERATE    HIGH (please circle)	

## Laboratory Chronicle

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**LABORATORY**  
**INC**

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Lab Department Volatiles  
 Fraction/Parameter 8260

SDG/Project Fagan/American Lagrange

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
1	L37275-2				
2	L37275-3				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	<del>Shannon Bennett</del> Scott J. Berglund	8-12-99	10:00	Scott J. Berglund	8-12-99	10:00	
1	Scott J. Berglund	8-25-99	8:20	Shannon Bennett	8-25-99	8:20	
2	Low Jones	8-18-99	9:34	Scott J. Berglund	8-18-99	9:34	
2	Scott J. Berglund	8-25-99	8:20	Shannon Bennett	8-25-99	8:20	
3							
3							

\* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

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Lab Department Semivolatiles  
 Fraction/Parameter 8081

SDG/Project Fagan/American Logrance

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L37275-2				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Shannon MBennett	8/20/99		Scott Handless	8/20/99		
1	Scott Handless	8/20/99		Shannon MBennett	8/20/99		
2							
2							
3							
3							

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Lab Department Semi-volatiles  
 Fraction/Parameter 8082

SDG/Project Fagan/American Lagrange

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L37275-2				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Done from	8081	bottle				
1							
2							
2							
3							
3							

\* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

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FRIEND  
LABORATORY  
INC

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Lab Department Semivolatiles  
 Fraction/Parameter 8270

SDG/Project Fagan/American Lagrange

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L37275-2	✓ done 8/24/99 ps			
	<u>L37275-3</u>	<u>need</u>			

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	<u>[Signature]</u>	<u>8/26/99</u>	<u>8:16:30</u>	<u>[Signature]</u>	<u>8/26</u>	<u>4:30</u>	
1	<u>[Signature]</u>	<u>8/27/99</u>	<u>8:30</u>	<u>[Signature]</u>	<u>8/27/99</u>	<u>8:30</u>	
2							
2							
3							
3							

\* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

This form is transferred with samples. It MUST be returned to the Sample Custodian after completion of analysis.

# Laboratory Chronicle

**FLI**  
FRIEND  
LABORATORY  
INC

The sample fractions listed below are released by the Sample Custodian for analysis. The recipient of these samples is legally responsible for the integrity and safekeeping of these samples in accordance with FLI evidentiary custody procedures. Residual sample(s) must be returned as a set to the Sample Custodian. Use departmental custody logs to transfer extracts, digestates and distillates to the Sample Custodian after completion of analysis.

Lab Department N. Utah

SDG/Project Fagan/American Ladronce

Fraction/Parameter \_\_\_\_\_

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L37275-2				
	L37275-1				
	L37275-3				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	<i>Eric Snow</i>	8/12/99	8:20	<i>Matt Lee</i>	8/12/99	8:00	
1	<i>Matt Lee</i>	8/13/99	8:10	<i>Sharon McInnis</i>	8/13/99	8:10	
2							
2							
3							
3							

\* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

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## Laboratory Chronicle

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**LABORATORY**  
**INC**

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Lab Department Wetchem  
 Fraction/Parameter Cyanide

SDG/Project Fagan/American Lagrang

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L37275-2				
	<del>L37275</del>				

Number	Relinquished By.	Date	Time	Received By	Date	Time	*
1	Lond Jones	8/17/99	0830	Ben Buckle	8/17/99	0830	
1	Ben Buckle	8/17/99	1500	Lond Jones	8/17/99	1500	
2							
2							
3							
3							

\* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

This form is transferred with samples. It **MUST** be returned to the Sample Custodian after completion of analysis.

# Laboratory Chronicle

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LABORATORY  
INC

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Lab Department Wetchem  
 Fraction/Parameter Total Solids

SDG/Project Fagan/American Ladance

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L37275-2				
	L37275-1				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Lisa Sheppard	8/11/99	13:59	Jill Gustafka	8/11/99	13:59	
1	Jill Gustafka	8/11/99	16:11	Donald	8/11/99	16:11	
2							
2							
3							
3							

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 22-SEP-1999

LAB SAMPLE ID L37275-1

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFTPJ080999
DESCRIPTION	GRAB
SAMPLED ON	09-AUG-99 10:40 by CLIENT
DATE RECEIVED	10-AUG-99 15:45
P.O. NO.	97150A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	88.24	%		11-AUG-99	CLP 3.0	97-070-143
Aluminum	2790	mg/kg	8.10	18-AUG-99	EPA 6010	99-159-03
Antimony	U	mg/kg	5.40	18-AUG-99	EPA 6010	99-159-03
Arsenic	13.6	mg/kg	12.9	18-AUG-99	EPA 6010	99-159-03
Barium	65.2	mg/kg	1.73	18-AUG-99	EPA 6010	99-159-03
Beryllium	0.673	mg/kg	0.216	18-AUG-99	EPA 6010	99-159-03
Cadmium	U	mg/kg	0.5400	18-AUG-99	EPA 6010	99-159-03
Calcium	2890	mg/kg	54.0	18-AUG-99	EPA 6010	99-159-03
Chromium	8.18	mg/kg	1.08	18-AUG-99	EPA 6010	99-159-03
Cobalt	4.27	mg/kg	1.08	18-AUG-99	EPA 6010	99-159-03
Copper	177	mg/kg	1.84	18-AUG-99	EPA 6010	99-159-03
Iron	11000	mg/kg	4.32	18-AUG-99	EPA 6010	99-159-03
Lead	117	mg/kg	4.75	18-AUG-99	EPA 6010	99-159-03
Magnesium	287	mg/kg	54.0	18-AUG-99	EPA 6010	99-159-03
Manganese	50.8	mg/kg	0.540	18-AUG-99	EPA 6010	99-159-03
Mercury	0.16	mg/kg	0.0110	18-AUG-99	EPA 7470	98-126-38
Nickel	10.3	mg/kg	1.30	18-AUG-99	EPA 6010	99-159-03
Potassium	638	mg/kg	54.0	18-AUG-99	EPA 6010	99-159-03
Selenium	U	mg/kg	7.56	18-AUG-99	EPA 6010	99-159-03
Silver	U	mg/kg	1.08	18-AUG-99	EPA 6010	99-159-03
Sodium	108	mg/kg	21.6	18-AUG-99	EPA 6010	99-159-03

QC    NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: John A. Kent  
 Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)  
 mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)  
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DATE 22-SEP-1999

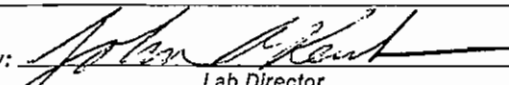
LAB SAMPLE ID :L37275-1

Fagan Engineers  
Steve Degerdon  
113 East Chemung Place  
Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	S-ALFTPJ080999
DESCRIPTION	GRAB
SAMPLED ON	09-AUG-99 10:40 by CLIENT
DATE RECEIVED	10-AUG-99 15:45
P.O. NO.	97150A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Thallium	U	mg/kg	7.02	18-AUG-99	EPA 6010	99-159-03
Vanadium	19	mg/kg	1.08	18-AUG-99	EPA 6010	99-159-03
Zinc	57.2	mg/kg	2.16	18-AUG-99	EPA 6010	99-159-03

QC D NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)<sup>1</sup>  
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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 22-SEP-1999

LAB SAMPLE ID L37275-2

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	TAR S-ALFTP1-081099
DESCRIPTION	GRAB
SAMPLED ON	10-AUG-99 14:40 by CLIENT
DATE RECEIVED	10-AUG-99 15:45
P.O. NO.	97150A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Cyanide, Total	U	mg/kg	0.581	18-AUG-99	EPA 335.3	99-003-45
Total Solids	84.39	%		11-AUG-99	CLP 3.0	97-070-143
Aluminum	4330	mg/kg	8.62	18-AUG-99	EPA 6010	99-159-03
Antimony	7.21	mg/kg	5.74	18-AUG-99	EPA 6010	99-159-03
Arsenic	U	mg/kg	13.7	18-AUG-99	EPA 6010	99-159-03
Barium	90.3	mg/kg	1.84	18-AUG-99	EPA 6010	99-159-03
Beryllium	0.287	mg/kg	0.230	18-AUG-99	EPA 6010	99-159-03
Cadmium	0.641	mg/kg	0.5740	18-AUG-99	EPA 6010	99-159-03
Calcium	12800	mg/kg	57.4	18-AUG-99	EPA 6010	99-159-03
Chromium	9.51	mg/kg	1.15	18-AUG-99	EPA 6010	99-159-03
Cobalt	3.26	mg/kg	1.15	18-AUG-99	EPA 6010	99-159-03
Copper	204	mg/kg	1.95	18-AUG-99	EPA 6010	99-159-03
Iron	18200	mg/kg	4.60	18-AUG-99	EPA 6010	99-159-03
Lead	150	mg/kg	5.05	18-AUG-99	EPA 6010	99-159-03
Magnesium	2500	mg/kg	57.4	18-AUG-99	EPA 6010	99-159-03
Manganese	294	mg/kg	0.574	18-AUG-99	EPA 6010	99-159-03
Mercury	0.071	mg/kg	0.0120	18-AUG-99	EPA 7470	98-126-38
Nickel	23	mg/kg	1.38	18-AUG-99	EPA 6010	99-159-03
Potassium	657	mg/kg	57.4	18-AUG-99	EPA 6010	99-159-03
Selenium	U	mg/kg	8.04	18-AUG-99	EPA 6010	99-159-03
Silver	U	mg/kg	1.15	18-AUG-99	EPA 6010	99-159-03

Page 1

QC D NY 10252 NJ 73168 PA 68180 EPA NY 00033 Approved by: [Signature]  
 Lab Director

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
DATE 22-SEP-1999

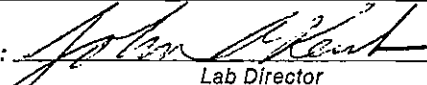
LAB SAMPLE ID L37275-2

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	TAR S-ALFTP1-081099
DESCRIPTION	GRAB
SAMPLED ON	10-AUG-99 14:40 by CLIENT
DATE RECEIVED	10-AUG-99 15:45
P.O. NO.	97150A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Sodium	58.1	mg/kg	22.9	18-AUG-99	EPA 6010	99-159-03
Thallium	U	mg/kg	7.47	18-AUG-99	EPA 6010	99-159-03
Vanadium	20.7	mg/kg	1.15	18-AUG-99	EPA 6010	99-159-03
Zinc	177	mg/kg	2.30	18-AUG-99	EPA 6010	99-159-03
EPA 8260						
Chloromethane	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Vinyl chloride	U	ug/kg	320	19-AUG-99	EPA 8260	99-157-7994
Chloroethane	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Bromomethane	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
1,1-Dichloroethene	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Acetone	U	ug/kg	4000	19-AUG-99	EPA 8260	99-157-7994
Carbon disulfide	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Methylene chloride	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
trans-1,2-Dichloroethene	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
1,1-Dichloroethane	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
cis-1,2-Dichloroethene	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Methyl ethyl ketone (2-Butanone)	U	ug/kg	4000	19-AUG-99	EPA 8260	99-157-7994
Chloroform	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
1,1,1-Trichloroethane	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Carbon tetrachloride	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Benzene	U	ug/kg	110	19-AUG-99	EPA 8260	99-157-7994
1,2-Dichloroethane	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Trichloroethene	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
1,2-Dichloropropane	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Bromodichloromethane	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
cis-1,3-Dichloropropene	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Methyl isobutyl ketone	U	ug/kg	1600	19-AUG-99	EPA 8260	99-157-7994
Toluene	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
trans-1,3-Dichloropropene	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
1,1,2-Trichloroethane	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Tetrachloroethene	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
2-Hexanone	U	ug/kg	1600	19-AUG-99	EPA 8260	99-157-7994
Dibromochloromethane	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Chlorobenzene	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Ethylbenzene	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
p-Xylene/m-Xylene	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:  Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 22-SEP-1999

LAB SAMPLE ID L37275-2

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	TAR S-ALFTPH1-081099
DESCRIPTION	GRAB
SAMPLED ON	10-AUG-99 14:40 by CLIENT
DATE RECEIVED	10-AUG-99 15:45
P.O. NO.	97150A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
o-Xylene	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Styrene	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
Bromoform	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994
1,1,2,2-Tetrachloroethane	U	ug/kg	800	19-AUG-99	EPA 8260	99-157-7994

Library Search Compounds:	Results	Units	Qual	Retention Time
1,3,5-Trimethylbenzene	1200	ug/kg		18.64
1,2,4-Trimethylbenzene	2400	ug/kg		19.15
1,2,3-Trimethylbenzene	2000	ug/kg		19.69
n-Butylbenzene	1200	ug/kg		20.02
UNKNOWN	4800	ug/kg	J	20.35
UNKNOWN	6100	ug/kg	J	20.45
UNKNOWN	5600	ug/kg	J	20.57
UNKNOWN	5700	ug/kg	J	20.78
UNKNOWN	16000	ug/kg	J	20.94
UNKNOWN	9000	ug/kg	J	21.05
UNKNOWN	21000	ug/kg	J	21.21

Surrogate Recovery:


Dibromofluoromethane	102	%		99-157-7994
Toluene-d8	103	%		99-157-7994
4-Bromofluorobenzene	100	%		99-157-7994

Analysis Comment: Results Calculated on a dry weight basis.

EPA 8081

alpha-BHC	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
beta-BHC	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
Lindane (gamma-BHC)	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
delta-BHC	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
Heptachlor	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
Aldrin	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
Heptachlor epoxide	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
alpha-Chlordane	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
Endosulfan I	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
gamma-Chlordane	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
4,4'-DDE	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521

QC    NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

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DATE 22-SEP-1999

LAB SAMPLE ID L37275-2

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	TAR S-ALFTPH1-081099
DESCRIPTION	GRAB
SAMPLED ON	10-AUG-99 14:40 by CLIENT
DATE RECEIVED	10-AUG-99 15:45
P.O. NO.	97150A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Dieldrin	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
Endrin	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
Endosulfan II	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
4,4'-DDD	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
Endrin ketone	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
Endrin aldehyde	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
Endosulfan sulfate	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
4,4'-DDT	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
Methoxychlor	U	mg/kg	0.05	25-AUG-99	EPA 8081	99-127-7521
Toxaphene	U	mg/kg	0.55	25-AUG-99	EPA 8081	99-127-7521

Extraction Information:

20-AUG-99 99-154-10

Surrogate Recovery:  
 Decachlorobiphenyl 110 %  
 Analysis Comment: Pesticide results calculated on a dry weight basis.

99-127-7521

EPA 8082

PCB 1016	U	mg/kg	0.11	25-AUG-99	EPA 8082	99-127-7521
PCB 1221	U	mg/kg	0.22	25-AUG-99	EPA 8082	99-127-7521
PCB 1232	U	mg/kg	0.11	25-AUG-99	EPA 8082	99-127-7521
PCB 1242	U	mg/kg	0.11	25-AUG-99	EPA 8082	99-127-7521
PCB 1248	U	mg/kg	0.11	25-AUG-99	EPA 8082	99-127-7521
PCB 1254	U	mg/kg	0.11	25-AUG-99	EPA 8082	99-127-7521
PCB 1260	U	mg/kg	0.11	25-AUG-99	EPA 8082	99-127-7521

Extraction Information:

20-AUG-99 99-154-10

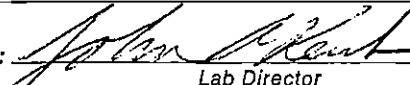
Surrogate Recovery:  
 Decachlorobiphenyl 110 %  
 Analysis Comment: PCB results calculated on a dry weight basis.

99-127-7521

EPA 8270

Bis(2-chloroethylether)	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Phenol	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
2-Chlorophenol	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
1,3-Dichlorobenzene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
1,4-Dichlorobenzene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
1,2-Dichlorobenzene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Bis(2-chloroisopropylether)	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)  
 mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)  
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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 22-SEP-1999

LAB SAMPLE ID L37275-2

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	TAR S-ALFTP1-081099
DESCRIPTION	GRAB
SAMPLED ON	10-AUG-99 14:40 by CLIENT
DATE RECEIVED	10-AUG-99 15:45
P.O. NO.	97150A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
2-Methylphenol	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Hexachloroethane	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
N-Nitrosodi-N-propylamine	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
3-Methylphenol/4-Methylphenol	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Nitrobenzene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Isophorone	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
2-Nitrophenol	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
2,4-Dimethylphenol	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Bis(2-chloroethoxymethane)	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
2,4-Dichlorophenol	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
1,2,4-Trichlorobenzene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Naphthalene	15000	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
4-Chloroaniline	U	ug/kg	22000	25-AUG-99	EPA 8270	98-051-9101
Hexachlorobutadiene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
4-Chloro-3-methylphenol	U	ug/kg	22000	25-AUG-99	EPA 8270	98-051-9101
2-Methylnaphthalene	62000	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Hexachlorocyclopentadiene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
2,4,6-Trichlorophenol	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
2,4,5-Trichlorophenol	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
2-Chloronaphthalene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
2-Nitroaniline	U	ug/kg	43000	25-AUG-99	EPA 8270	98-051-9101
Dimethyl phthalate	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Acenaphthylene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
2,6-Dinitrotoluene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
3-Nitroaniline	U	ug/kg	43000	25-AUG-99	EPA 8270	98-051-9101
Acenaphthene	11000 J	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
2,4-Dinitrophenol	U	ug/kg	43000	25-AUG-99	EPA 8270	98-051-9101
Dibenzofuran	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
2,4-Dinitrotoluene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
4-Nitrophenol	U	ug/kg	43000	25-AUG-99	EPA 8270	98-051-9101
Diethyl phthalate	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Fluorene	11000	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
4-Chlorophenylphenylether	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
4-Nitroaniline	U	ug/kg	43000	25-AUG-99	EPA 8270	98-051-9101
2-Methyl-4,6-dinitrophenol	U	ug/kg	43000	25-AUG-99	EPA 8270	98-051-9101
N-Nitrosodiphenylamine	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
4-Bromophenylphenylether	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Hexachlorobenzene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Pentachlorophenol	U	ug/kg	43000	25-AUG-99	EPA 8270	98-051-9101
Phenanthrene	53000	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Anthracene	10000 J	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Carbazole	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: Lab Director

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DATE 22-SEP-1999

LAB SAMPLE ID L37275-2

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	TAR S-ALFTP1-081099
DESCRIPTION	GRAB
SAMPLED ON	10-AUG-99 14:40 by CLIENT
DATE RECEIVED	10-AUG-99 15:45
P.O. NO.	97150A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Di-n-butyl phthalate	12000 B	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Fluoranthene	8900 J	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Pyrene	46000	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Butylbenzyl phthalate	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Benzo(a)anthracene	16000	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
3,3-Dichlorobenzidine	U	ug/kg	22000	25-AUG-99	EPA 8270	98-051-9101
Chrysene	26000	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Bis-2-ethylhexyl phthalate	5800 J	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Di-n-octyl phthalate	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Benzo(b)fluoranthene	8000 J	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Benzo(k)fluoranthene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Benzo(a)pyrene	12000	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Indeno(1,2,3-cd)pyrene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Dibenzo(a,h)anthracene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101
Benzo(g,h,i)perylene	U	ug/kg	11000	25-AUG-99	EPA 8270	98-051-9101

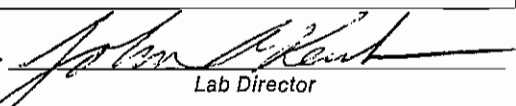
Extraction Information:

24-AUG-99 3540 98-174-174

Library Search Compounds:

Library Search Compounds:	Results	Units	Qual	Retention Time
1-Methylnaphthalene	60	mg/kg	J	16.56
UNKNOWN	51	mg/kg	J	18.07
UNKNOWN	100	mg/kg	J	18.28
UNKNOWN	150	mg/kg	J	18.52
UNKNOWN	70	mg/kg	J	18.59
UNKNOWN	60	mg/kg	J	18.85
UNKNOWN	120	mg/kg	J	19.96
UNKNOWN	56	mg/kg	J	20.27
UNKNOWN	64	mg/kg	J	20.39
UNKNOWN	140	mg/kg	J	22.95
UNKNOWN	90	mg/kg	J	23.06
UNKNOWN	60	mg/kg	J	23.8
UNKNOWN	56	mg/kg	J	24.41
UNKNOWN	60	mg/kg	J	24.62

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)  
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DATE 22-SEP-1999


LAB SAMPLE ID : L37275-2

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	TAR S-ALFTPH1-081099
DESCRIPTION	GRAB
SAMPLED ON	10-AUG-99 14:40 by CLIENT
DATE RECEIVED	10-AUG-99 15:45
P.O. NO.	97150A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
UNKNOWN	100	mg/kg	J	25.76		
UNKNOWN	89	mg/kg	J	25.85		
UNKNOWN	120	mg/kg	J	27.54		
UNKNOWN	93	mg/kg	J	28.87		
UNKNOWN	140	mg/kg	J	28.98		
UNKNOWN	64	mg/kg	J	32.59		
Surrogate Recovery:						
Terphenyl-d14	136	%				98-051-9101
2-Fluorophenol	80	%				98-051-9101
Phenol-d5	78	%				98-051-9101
2,4,6-Tribromophenol	54	%				98-051-9101
Nitrobenzene-d5	79	%				98-051-9101
2-Fluorobiphenyl	84	%				98-051-9101
Analysis Comment: Dry weight basis. Internal standard 6 out of limits low.						

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:  Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)  
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1 E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

*Fagen*  
NYSDEC SAMPLE NO.  
[ ]

Lab Name: \_\_\_\_\_ Contract: \_\_\_\_\_

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) \_\_\_\_\_ Lab Sample ID: L37275-2

Sample wt/vol: \_\_\_\_\_ (g/mL) \_\_\_\_\_ Lab File ID: C7994.d

Level: (low/med) \_\_\_\_\_ Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: \_\_\_\_\_

GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm) Dilution Factor: \_\_\_\_\_

Soil Extract Volume: \_\_\_\_\_ (µL) Soil Aliquot Volume: \_\_\_\_\_ (µL)

Number TICs found: 13 11  
*SJA 8-20-99*

CONCENTRATION UNITS:  
(µg/L or µg/Kg) µg/Kg

*dm*  
*8/23/99*  
*R12032*

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108-67-8	1,3,5 Trimethylbenzene	7.56-18.64	1200	96
2. 95-63-6	1,2,4 Trimethylbenzene	11.15	2400	97
3. 526-73-8	1,2,3 Trimethylbenzene	19.69	2000	100
4. 104-51-8	n-butylbenzene	20.02	1200	19
5.	Unknown	20.35	<del>2300</del> 4800	J
6.		20.45	6100	
7.		20.57	5600	
8.		20.78	5700	
9.		20.94	16000	
10.		21.05	9000	
11.		21.21	21000	
12.		21.38	39000	
13.		21.74	52000	
14.		21.84	51000	
15.		22.16	14000	
16.				
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30.				

*SJA*  
*8-20-99*

Fagan

1 F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

NYSDEC SAMPLE NO.

Lab Name: \_\_\_\_\_

Contract: \_\_\_\_\_

Lab Code: \_\_\_\_\_

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SOG No.: \_\_\_\_\_

Matrix: (soil/water) \_\_\_\_\_

Lab Sample ID: L37275-2

Sample wt/vol: \_\_\_\_\_ (g/mL)

Lab File ID: B9101

Level: (low/med) \_\_\_\_\_

Date Received: \_\_\_\_\_

% Moisture: decanted: (Y/N) \_\_\_\_\_

Date Extracted: \_\_\_\_\_

Concentrated Extract Volume: \_\_\_\_\_ (µL)

Date Analyzed: \_\_\_\_\_

Injection Volume: \_\_\_\_\_ (µL)

Dilution Factor: 2

GPC Cleanup: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_

CONCENTRATION UNITS:

(µg/L or µg/Kg) mg/kg

Number TICs found: 20

1-methylphtalate

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 90-12-0	<u>Unknown</u>	16.56	60	J
2.	<u>Unknown</u>	18.07	51	
3.		18.28	100	
4.		18.52	150	
5.		18.59	70	
6.		18.85	60	
7.		19.96	120	
8.		20.27	56	
9.		20.39	64	
10.		22.95	140	
11.		23.06	90	
12.		23.80	60	
13.		24.41	56	
14.		24.62	60	
15.		25.76	100	
16.		25.85 <del>41.42</del>	89	
17.		27.54	120	
18.		28.87	93	
19.		28.98	140	
20.		32.59	64	
21.				
22.				
23.				
24.				
25.				
26.				
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29.				
30.				

R12163  
8/23/99

FORM I-CLP-SV-TIC

*vaf*



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532  
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 22-SEP-1999

LAB SAMPLE ID L37275-3

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	TAR S-ALFTPH2-081099
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	10-AUG-99 14:40 by CLIENT
DATE RECEIVED	10-AUG-99 15:45
P.O. NO.	97150A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Arsenic	U	mg/l	1.20	18-AUG-99	EPA 6010 TCLP	99-159-03
Barium	0.978	mg/l	0.160	18-AUG-99	EPA 6010 TCLP	99-159-03
Cadmium	U	mg/l	0.0500	18-AUG-99	EPA 6010 TCLP	99-159-03
Chromium	U	mg/l	0.100	18-AUG-99	EPA 6010 TCLP	99-159-03
Lead	U	mg/l	0.440	18-AUG-99	EPA 6010 TCLP	99-159-03
Mercury	U	mg/l	0.0100	18-AUG-99	EPA 7470 TCLP	98-126-38
Selenium	U	mg/l	0.700	18-AUG-99	EPA 6010 TCLP	99-159-03
Silver	U	mg/l	0.100	18-AUG-99	EPA 6010 TCLP	99-159-03
<b>TCLP 8260</b>						
Vinyl chloride	U	mg/l	0.03	19-AUG-99	TCLP 8260	99-157-7996
1,1-Dichloroethene	U	mg/l	0.03	19-AUG-99	TCLP 8260	99-157-7996
Methyl ethyl ketone	U	mg/l	0.1	19-AUG-99	TCLP 8260	99-157-7996
Chloroform	U	mg/l	0.03	19-AUG-99	TCLP 8260	99-157-7996
Carbon tetrachloride	U	mg/l	0.03	19-AUG-99	TCLP 8260	99-157-7996
Benzene	U	mg/l	0.03	19-AUG-99	TCLP 8260	99-157-7996
1,2-Dichloroethane	U	mg/l	0.03	19-AUG-99	TCLP 8260	99-157-7996
Trichloroethene	U	mg/l	0.03	19-AUG-99	TCLP 8260	99-157-7996
Tetrachloroethene	U	mg/l	0.03	19-AUG-99	TCLP 8260	99-157-7996
Chlorobenzene	U	mg/l	0.03	19-AUG-99	TCLP 8260	99-157-7996
1,4-Dichlorobenzene	U	mg/l	0.03	19-AUG-99	TCLP 8260	99-157-7996
Surrogate Recovery:						
Dibromofluoromethane	109	%				99-157-7996
Toluene-d8	100	%				99-157-7996
4-Bromofluorobenzene	99	%				99-157-7996

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

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 TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 22-SEP-1999

LAB SAMPLE ID L37275-3

Fagan Engineers  
 Steve Degerdon  
 113 East Chemung Place  
 Elmira, NY 14904

SAMPLE SOURCE	AMERICAN LAFRANCE
ORIGIN	TAR S-ALFTPH2-081099
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	10-AUG-99 14:40 by CLIENT
DATE RECEIVED	10-AUG-99 15:45
P.O. NO.	97150A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
<b>TCLP 8270</b>						
Pyridine	U,*	mg/l	0.05	24-AUG-99	TCLP 8270	97-186-12686
o-Cresol	U	mg/l	0.05	24-AUG-99	TCLP 8270	97-186-12686
p-Cresol/m-Cresol	U	mg/l	0.05	24-AUG-99	TCLP 8270	97-186-12686
Hexachloroethane	U,*	mg/l	0.05	24-AUG-99	TCLP 8270	97-186-12686
Nitrobenzene	U	mg/l	0.05	24-AUG-99	TCLP 8270	97-186-12686
Hexachlorobutadiene	U	mg/l	0.05	24-AUG-99	TCLP 8270	97-186-12686
2,4,6-Trichlorophenol	U	mg/l	0.05	24-AUG-99	TCLP 8270	97-186-12686
2,4,5-Trichlorophenol	U	mg/l	0.05	24-AUG-99	TCLP 8270	97-186-12686
2,4-Dinitrotoluene	U,*	mg/l	0.05	24-AUG-99	TCLP 8270	97-186-12686
Hexachlorobenzene	U	mg/l	0.05	24-AUG-99	TCLP 8270	97-186-12686
Pentachlorophenol	U	mg/l	0.2	24-AUG-99	TCLP 8270	97-186-12686

Extraction Information:

13-AUG-99 3510 98-174-171

Surrogate Recovery:

2-Fluorophenol	29	%				97-186-12686
Phenol-d5	21	%				97-186-12686
Nitrobenzene-d5	70	%				97-186-12686
2-Fluorobiphenyl	72	%				97-186-12686
2,4,6-Tribromophenol	55	%				97-186-12686
Terphenyl-d14	97	%				97-186-12686

Analysis Comment: \*Associated QC sample failed for this analyte. Results biased low.

QC D NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:   
 Lab Director

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