

# Remedial Investigation Report of the Luzerne Road Site Queensbury, New York

Contract Number: D003493  
Task Order No. 16

Volume III  
Appendix G, Part I

November 2001

Prepared for:

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
625 Broadway  
Albany, NY 12233-7012

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**ecology and environment engineering, p.c.**

BUFFALO CORPORATE CENTER 368 Pleasant View Drive, Lancaster, New York 14086  
Tel: 716/684-8060, Fax: 716/684-0844



**G**

# Analytical Data Forms



# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Road

**Lab Order:** 9909013

## Laboratory Results

NYS ELAP ID#: 10486

### CASE NARRATIVE

#### PCB

The column used for analysis was an RTX-5, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

Several samples required analysis at secondary dilutions due to the level of Aroclors present. Surrogate compounds were diluted out of these samples.

Trace levels (below the PQL) of Aroclor 1254 and Aroclor 1242 were detected in the method blank. Sample values less than 10 times the blank amounts should be considered suspect.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors know to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
October 18, 1999

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1

Phone: (716) 68

**CLIENT:** E and E Buffalo Office **Client Sample ID:** LR-SS01-ASO  
**Lab Order:** 9909013 **Alt. Client ID:**  
**Project:** Luzerne Road **Collection Date:** 9/1/99 3:45:00 PM  
**Lab ID:** 9909013-08A **Sample Type:** SAMP **Matrix:** SOIL **% Moist:**

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	An
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### PCB ANALYSIS BY METHOD 8082

#### 1\_8082\_3550B\_S

Aroclor 1016	ND		41100	µg/Kg-dry	2000	10/1/99 7:13:21 AM	HP58901A_990929C	
Aroclor 1221	ND		82300	µg/Kg-dry	2000			
Aroclor 1232	ND		41100	µg/Kg-dry	2000			
Aroclor 1242	115000		41100	µg/Kg-dry	2000			
Aroclor 1248	ND		41100	µg/Kg-dry	2000			
Aroclor 1254	416000		41100	µg/Kg-dry	2000			
Aroclor 1260	ND		41100	µg/Kg-dry	2000			
Surr: Decachlorobiphenyl	DL	*	52-115	%REC	2000			
Surr: Tetrachloro-m-xylene	DL	*	39-125	%REC	2000			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M -Matrix Spike recovery  
 J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
 H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1048

Phone: (716) 685-808

CLIENT: E and E Buffalo Office

Client Sample ID: LR-SS02-ASO

Lab Order: 9909013

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/1/99 3:49:00 PM

Lab ID: 9909013-09A Sample Type: SAMP

Matrix: SOIL

% Moist: 4.

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyte
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		37000	µg/Kg-dry	2000	10/1/99 7:54:37 AM	HP58901A_990929C	GSR
Aroclor 1221	ND		74100	µg/Kg-dry	2000			
Aroclor 1232	ND		37000	µg/Kg-dry	2000			
Aroclor 1242	28700	J	37000	µg/Kg-dry	2000			
Aroclor 1248	ND		37000	µg/Kg-dry	2000			
Aroclor 1254	114000		37000	µg/Kg-dry	2000			
Aroclor 1260	ND		37000	µg/Kg-dry	2000			
Surr: Decachlorobiphenyl	DL	*	52-115	%REC	2000			
Surr: Tetrachloro-m-xylene	DL	*	39-125	%REC	2000			

**Definitions:**

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M -Matrix Spike recovery outside lir

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

H - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 104

Phone: (716) 685-7

CLIENT: E and E Buffalo Office

Client Sample ID: LR-SS03-ASO

Lab Order: 9909013

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/1/99 3:58:00 PM

Lab ID: 9909013-10A Sample Type: SAMP

Matrix: SOIL

% Moist: 10

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Anal
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		40000	µg/Kg-dry	2000	10/4/99 6:04:08 PM	HP58901A_990929C	
Aroclor 1221	ND		80000	µg/Kg-dry	2000			
Aroclor 1232	ND		40000	µg/Kg-dry	2000			
Aroclor 1242	ND		40000	µg/Kg-dry	2000			
Aroclor 1248	ND		40000	µg/Kg-dry	2000			
Aroclor 1254	646000		40000	µg/Kg-dry	2000			
Aroclor 1260	428000		40000	µg/Kg-dry	2000			
Surr: Decachlorobiphenyl	DL *		52-115	%REC	2000			
Surr: Tetrachloro-m-xylene	DL *		39-125	%REC	2000			

**Definitions:**

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M -Matrix Spike recovery out

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

H - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound



# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-SS04-ASO

Lab Order: 9909013

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/1/99 4:04:00 PM

Lab ID: 9909013-11A Sample Type: SAMP

Matrix: SOIL

% Moist: 1.4

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		90900	µg/Kg-dry	5000	10/1/99 9:16:30 AM	HP58901A_990929C	GSR
Aroclor 1221	ND		182000	µg/Kg-dry	5000			
Aroclor 1232	ND		90900	µg/Kg-dry	5000			
Aroclor 1242	120000		90900	µg/Kg-dry	5000			
Aroclor 1248	ND		90900	µg/Kg-dry	5000			
Aroclor 1254	551000		90900	µg/Kg-dry	5000			
Aroclor 1260	ND		90900	µg/Kg-dry	5000			
Surr: Decachlorobiphenyl	DL *		52-115	%REC	5000			
Surr: Tetrachloro-m-xylene	DL *		39-125	%REC	5000			

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 104

Phone: (716) 685

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-SS04-DSO
<b>Lab Order:</b>	9909013	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/1/99 4:04:00 PM
<b>Lab ID:</b>	9909013-12A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Anal
<b>PCB ANALYSIS BY METHOD 8082</b>								
<b>1_8082_3550B_S</b>								
Aroclor 1016	ND		88400	µg/Kg-dry	5000	10/1/99 9:57:31 AM	HP58901A_990929C	
Aroclor 1221	ND		177000	µg/Kg-dry	5000			
Aroclor 1232	ND		88400	µg/Kg-dry	5000			
Aroclor 1242	117000		88400	µg/Kg-dry	5000			
Aroclor 1248	ND		88400	µg/Kg-dry	5000			
Aroclor 1254	543000		88400	µg/Kg-dry	5000			
Aroclor 1260	ND		88400	µg/Kg-dry	5000			
Surr: Decachlorobiphenyl	DL	*	52-115	%REC	5000			
Surr: Tetrachloro-m-xylene	DL	*	39-125	%REC	5000			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1048

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-SS05-ASO

Lab Order: 9909013

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/1/99 4:10:00 PM

Lab ID: 9909013-13A Sample Type: SAMP

Matrix: SOIL

% Moist: 1.4

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		97300	µg/Kg-dry	5000	10/1/99 10:38:36 AM	HP58901A_990929C	GSR
Aroclor 1221	ND		195000	µg/Kg-dry	5000			
Aroclor 1232	ND		97300	µg/Kg-dry	5000			
Aroclor 1242	ND		97300	µg/Kg-dry	5000			
Aroclor 1248	ND		97300	µg/Kg-dry	5000			
Aroclor 1254	219000		97300	µg/Kg-dry	5000			
Aroclor 1260	ND		97300	µg/Kg-dry	5000			
Surr: Decachlorobiphenyl	DL *		52-115	%REC	5000			
Surr: Tetrachloro-m-xylene	DL *		39-125	%REC	5000			

Definitions:			
	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limit
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 1048

Phone: (716) 685-5

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-SS06-ASO
<b>Lab Order:</b>	9909013	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/1/99 4:26:00 PM
<b>Lab ID:</b>	9909013-14A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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### PCB ANALYSIS BY METHOD 8082

#### 1\_8082\_3550B\_S

Aroclor 1016	ND		18.6	µg/Kg-dry	1	10/1/99 11:19:33 AM	HP58901A_990929C	
Aroclor 1221	ND		37.1	µg/Kg-dry	1			
Aroclor 1232	ND		18.6	µg/Kg-dry	1			
Aroclor 1242	104		18.6	µg/Kg-dry	1			
Aroclor 1248	ND		18.6	µg/Kg-dry	1			
Aroclor 1254	174		18.6	µg/Kg-dry	1			
Aroclor 1260	ND		18.6	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	113.9		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	98.2		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-SS07-ASO

Lab Order: 9909013

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/1/99 4:34:00 PM

Lab ID: 9909013-15A Sample Type: SAMP

Matrix: SOIL

% Moist: 1.9

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		1840	µg/Kg-dry	100	10/1/99 12:00:45 PM	HP58901A_990929C	GSR
Aroclor 1221	ND		3670	µg/Kg-dry	100			
Aroclor 1232	ND		1840	µg/Kg-dry	100			
Aroclor 1242	3040		1840	µg/Kg-dry	100			
Aroclor 1248	ND		1840	µg/Kg-dry	100			
Aroclor 1254	8960		1840	µg/Kg-dry	100			
Aroclor 1260	ND		1840	µg/Kg-dry	100			
Surr: Decachlorobiphenyl	DL *		52-115	%REC	100			
Surr: Tetrachloro-m-xylene	DL *		39-125	%REC	100			

**Definitions:**

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M -Matrix Spike recovery outside limits

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

H - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 104

Phone: (716) 685

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-SS08-ASO
<b>Lab Order:</b>	9909013	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/1/99 4:41:00 PM
<b>Lab ID:</b>	9909013-16A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	2

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		18.5	µg/Kg-dry	1	10/1/99 12:41:40 PM	HP58901A_990929C	
Aroclor 1221	ND		37.0	µg/Kg-dry	1			
Aroclor 1232	ND		18.5	µg/Kg-dry	1			
Aroclor 1242	56.3		18.5	µg/Kg-dry	1			
Aroclor 1248	ND		18.5	µg/Kg-dry	1			
Aroclor 1254	118		18.5	µg/Kg-dry	1			
Aroclor 1260	ND		18.5	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	103.4		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	87.2		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1048

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-SS09-ASO

Lab Order: 9909013

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/1/99 4:46:00 PM

Lab ID: 9909013-17A Sample Type: SAMP

Matrix: SOIL

% Moist: 3.0

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		187	µg/Kg-dry	10	10/1/99 2:44:43 PM	HP58901A_990929C	GSR
Aroclor 1221	ND		373	µg/Kg-dry	10			
Aroclor 1232	ND		187	µg/Kg-dry	10			
Aroclor 1242	ND		187	µg/Kg-dry	10			
Aroclor 1248	ND		187	µg/Kg-dry	10			
Aroclor 1254	380		187	µg/Kg-dry	10			
Aroclor 1260	ND		187	µg/Kg-dry	10			
Surr: Decachlorobiphenyl	121.0	*	52-115	%REC	10			
Surr: Tetrachloro-m-xylene	89.2		39-125	%REC	10			

**Definitions:**

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M - Matrix Spike recovery outside limits

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

H - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

123

# Ecology and Environment, Inc.

# Laboratory Results

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#:   
Phone: (716) 685-805

<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-SS10-ASO
<b>Lab Order:</b> 9909026	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 9/2/99 2:10:00 PM
<b>Lab ID:</b> 9909026-06A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b> 14.1

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	A
<b>PCB ANALYSIS BY METHOD 8082</b>								
<b>1_8082_3550B_S</b>								
Aroclor 1016	ND		42600	µg/Kg-dry	2000	9/16/99 5:06:34 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		85200	µg/Kg-dry	2000			
Aroclor 1232	ND		42600	µg/Kg-dry	2000			
Aroclor 1242	36400	J	42600	µg/Kg-dry	2000			
Aroclor 1248	ND		42600	µg/Kg-dry	2000			
Aroclor 1254	200000		42600	µg/Kg-dry	2000			
Aroclor 1260	ND		42600	µg/Kg-dry	2000			
Surr: Decachlorobiphenyl	00.0	*	52-115	%REC	2000			
Surr: Tetrachloro-m-xylene	00.0	*	39-125	%REC	2000			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM



# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-SS24-ASD

Lab Order: 9909205

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/23/99 5:26:00 PM

Lab ID: 9909205-10A Sample Type: SAMP

Matrix: SOIL

% Moist: 10.20

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		21900	µg/Kg-dry	1000	10/6/99 4:21:42 AM	HP58901A_991004A	RJS
Aroclor 1221	ND		43800	µg/Kg-dry	1000			
Aroclor 1232	ND		21900	µg/Kg-dry	1000			
Aroclor 1242	ND		21900	µg/Kg-dry	1000			
Aroclor 1248	ND		21900	µg/Kg-dry	1000			
Aroclor 1254	290000		21900	µg/Kg-dry	1000			
Aroclor 1260	ND		21900	µg/Kg-dry	1000			
Surr: Decachlorobiphenyl	diluted out		52-115	%REC	1000			
Surr: Tetrachloro-m-xylene	diluted out		39-125	%REC	1000			

Definitions:	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H <sub>2</sub> - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM

LR-SS41-ASO

Lab Name: Ecology and Environment, Inc. Contract: \_\_\_\_\_

Lab Code: ECEN Case No.: E AND E BUFFALO SDG No.: 9912160

Matrix: (soil/water) SOIL Lab Sample ID: 9912160-01A

Sample wt/vol: 30.43 (g/mL) G Lab File ID: 134667

% Moisture: not dec. 33.3 Date Received: 12/16/99

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 12/17/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 1/4/00

Injection Volume: 2 (uL) Dilution Factor: 50.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/Kg-dry</u> Q
12674-11-2	Aroclor 1016		1480 U
11104-28-2	Aroclor 1221		2960 U
11141-16-5	Aroclor 1232		1480 U
53469-21-9	Aroclor 1242		3310 U
12672-29-6	Aroclor 1248		1480 U
11097-69-1	Aroclor 1254		7570 U
11096-82-5	Aroclor 1260		1480 U

## SW8082 AROCLOR ORGANICS ANALYSIS DATA SHEET

LR-SS42-ASO

Lab Name: Ecology and Environment, Inc. Contract:

Lab Code: ECEN Case No.: E AND E BUFFALO SDG No.: 9912160

Matrix: (soil/water) SOIL Lab Sample ID: 9912160-02A

Sample wt/vol: 30.08 (g/mL) G Lab File ID: 134700

% Moisture: not dec. 17 Date Received: 12/16/99

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 12/17/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 1/4/00

Injection Volume: 2 (uL) Dilution Factor: 200.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	<u>ug/Kg-dry</u>	Q
12674-11-2	Aroclor 1016		4810	U
11104-28-2	Aroclor 1221		9610	U
11141-16-5	Aroclor 1232		4810	U
53469-21-9	Aroclor 1242		4810	U
12672-29-6	Aroclor 1248		4810	U
11097-69-1	Aroclor 1254		22200	
11096-82-5	Aroclor 1260		4810	U

## SW8082 AROCLOR ORGANICS ANALYSIS DATA SHEET

LR-SS43-ASO

Lab Name: Ecology and Environment, Inc. Contract:

Lab Code: ECEN Case No.: E AND E BUFFALO SDG No.: 9912160

Matrix: (soil/water) SOIL Lab Sample ID: 9912160-03A

Sample wt/vol: 30.21 (g/mL) G Lab File ID: 134698

% Moisture: not dec. 20.1 Date Received: 12/16/99

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 12/17/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 1/4/00

Injection Volume: 2 (uL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

## CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg)  $\mu\text{g/Kg-dry}$  Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	$\mu\text{g/Kg-dry}$	Q
12674-11-2	Aroclor 1016		1240	U
11104-28-2	Aroclor 1221		2490	U
11141-16-5	Aroclor 1232		1240	U
53469-21-9	Aroclor 1242		1240	U
12672-29-6	Aroclor 1248		1240	U
11097-69-1	Aroclor 1254		4040	
11096-82-5	Aroclor 1260		1240	U

1D  
SW8082 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LR-SS44-ASO

Lab Name: Ecology and Environment, Inc. Contract:

Lab Code: ECEN Case No.: E AND E BUFFALO SDG No.: 9912160

Matrix: (soil/water) SOIL Lab Sample ID: 9912160-04A

Sample wt/vol: 30.72 (g/mL) G Lab File ID: 134697

% Moisture: not dec. 13.7 Date Received: 12/16/99

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 12/17/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 1/4/00

Injection Volume: 2 (uL) Dilution Factor: 200.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/Kg-dry</u> Q
12674-11-2	Aroclor 1016	4530	U
11104-28-2	Aroclor 1221	9050	U
11141-16-5	Aroclor 1232	4530	U
53469-21-9	Aroclor 1242	4530	U
12672-29-6	Aroclor 1248	4530	U
11097-69-1	Aroclor 1254	22000	U
11096-82-5	Aroclor 1260	4530	U

## SW8082 AROCLOR ORGANICS ANALYSIS DATA SHEET

LR-SS45-ASO

Lab Name: Ecology and Environment, Inc. Contract:

Lab Code: ECEN Case No.: E AND E BUFFALO SDG No.: 9912160

Matrix: (soil/water) SOIL Lab Sample ID: 9912160-05A

Sample wt/vol: 30.73 (g/mL) G Lab File ID: 134695

% Moisture: not dec. 22.7 Date Received: 12/16/99

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 12/17/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 1/4/00

Injection Volume: 2 (uL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	<u>ug/Kg-dry</u>	Q
12674-11-2	Aroclor 1016		253	U
11104-28-2	Aroclor 1221		505	U
11141-16-5	Aroclor 1232		253	U
53469-21-9	Aroclor 1242		253	U
12672-29-6	Aroclor 1248		253	U
11097-69-1	Aroclor 1254		1090	
11096-82-5	Aroclor 1260		253	U

## SW8082 AROCLOR ORGANICS ANALYSIS DATA SHEET

LR-SS46-ASO

Lab Name: Ecology and Environment, Inc. Contract:Lab Code: ECEN Case No.: E AND E BUFFALO SDG No.: 9912160Matrix: (soil/water) SOIL Lab Sample ID: 9912160-06ASample wt/vol: 30.53 (g/mL) G Lab File ID: 134678% Moisture: not dec. 22.8 Date Received: 12/16/99Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 12/17/99Concentrated Extract Volume: 10000 (uL) Date Analyzed: 1/5/00Injection Volume: 2 (uL) Dilution Factor: 50.00GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	<u>ug/Kg-dry</u>	Q
12674-11-2	Aroclor 1016		1270	U
11104-28-2	Aroclor 1221		2550	U
11141-16-5	Aroclor 1232		1270	U
53469-21-9	Aroclor 1242		1270	U
12672-29-6	Aroclor 1248		1270	U
11097-69-1	Aroclor 1254		4860	
11096-82-5	Aroclor 1260		1270	U

1D  
SW8082 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LR-SS47-ASO

Lab Name: Ecology and Environment, Inc. Contract: \_\_\_\_\_

Lab Code: ECEN Case No.: E AND E BUFFALO SDG No.: 9912160

Matrix: (soil/water) SOIL Lab Sample ID: 9912160-07A

Sample wt/vol: 30.97 (g/mL) G Lab File ID: 134676

% Moisture: not dec. 29.9 Date Received: 12/16/99

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 12/17/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 1/5/00

Injection Volume: 2 (uL) Dilution Factor: 50.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>µg/Kg-dry</u> Q
12674-11-2	Aroclor 1016		1380 U
11104-28-2	Aroclor 1221		2760 U
11141-16-5	Aroclor 1232		1380 U
53469-21-9	Aroclor 1242		1380 U
12672-29-6	Aroclor 1248		1380 U
11097-69-1	Aroclor 1254		6060 U
11096-82-5	Aroclor 1260		1380 U



1D  
SW8082 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LR-SS48-ASO

Lab Name: Ecology and Environment, Inc. Contract:

Lab Code: ECEN Case No.: E AND E BUFFALO SDG No.: 9912160

Matrix: (soil/water) SOIL Lab Sample ID: 9912160-08A

Sample wt/vol: 30.27 (g/mL) G Lab File ID: 134675

% Moisture: not dec. 32.5 Date Received: 12/16/99

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 12/17/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 1/5/00

Injection Volume: 2 (uL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	<u>ug/Kc-dry</u>	Q
12674-11-2	Aroclor 1016		2940	U
11104-28-2	Aroclor 1221		5870	U
11141-16-5	Aroclor 1232		2940	U
53469-21-9	Aroclor 1242		2940	U
12672-29-6	Aroclor 1248		2940	U
11097-69-1	Aroclor 1254		16600	
11096-82-5	Aroclor 1260		2940	U

1D  
SW8082 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LR-SS49-ASO

Lab Name: Ecology and Environment, Inc. Contract:

Lab Code: ECEN Case No.: E AND E BUFFALO SDG No.: 9912160

Matrix: (soil/water) SOIL Lab Sample ID: 9912160-09A

Sample wt/vol: 30.65 (g/mL) G Lab File ID: 135984

% Moisture: not dec. 13.4 Date Received: 12/16/99

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 12/17/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 1/5/00

Injection Volume: 2 (uL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/Kg-dry</u> Q
12674-11-2	Aroclor 1016	452	U
11104-28-2	Aroclor 1221	904	U
11141-16-5	Aroclor 1232	452	U
53469-21-9	Aroclor 1242	452	U
12672-29-6	Aroclor 1248	452	U
11097-69-1	Aroclor 1254	1680	U
11096-82-5	Aroclor 1260	452	U

1D  
SW8082 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LR-SS50-ASO

Lab Name: Ecology and Environment, Inc. Contract: \_\_\_\_\_

Lab Code: ECEN Case No.: E AND E BUFFALO SDG No.: 9912160

Matrix: (soil/water) SOIL Lab Sample ID: 9912160-10A

Sample wt/vol: 30.78 (g/mL) G Lab File ID: 134673

% Moisture: not dec. 24.1 Date Received: 12/16/99

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 12/17/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 1/5/00

Injection Volume: 2 (uL) Dilution Factor: 100.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>µg/Kg-dry</u> Q
12674-11-2	Aroclor 1016	2570	U
11104-28-2	Aroclor 1221	5140	U
11141-16-5	Aroclor 1232	2570	U
53469-21-9	Aroclor 1242	3960	
12672-29-6	Aroclor 1248	2570	U
11097-69-1	Aroclor 1254	9440	
11096-82-5	Aroclor 1260	2570	U

## SW8082 AROCLOR ORGANICS ANALYSIS DATA SHEET

LR-SS51-ASO

Lab Name: Ecology and Environment, Inc. Contract:

Lab Code: ECEN Case No.: E AND E BUFFALO SDG No.: 9912160

Matrix: (soil/water) SOIL Lab Sample ID: 9912160-11A

Sample wt/vol: 30.9 (g/mL) G Lab File ID: 134669

% Moisture: not dec. 24.2 Date Received: 12/16/99

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 12/17/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 1/5/00

Injection Volume: 2 (uL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	<u>ug/Kg-dry</u>	Q
12674-11-2	Aroclor 1016		1280	U
11104-28-2	Aroclor 1221		2560	U
11141-16-5	Aroclor 1232		1280	U
53469-21-9	Aroclor 1242		1280	U
12672-29-6	Aroclor 1248		1280	U
11097-69-1	Aroclor 1254		6730	
11096-82-5	Aroclor 1260		1280	U

## SW8082 AROCLOR ORGANICS ANALYSIS DATA SHEET

LR-SS52-ASO

Lab Name: Ecology and Environment, Inc. Contract:

Lab Code: ECEN Case No.: E AND E BUFFALO SDG No.: 9912160

Matrix: (soil/water) SOIL Lab Sample ID: 9912160-12A

Sample wt/vol: 30.36 (g/mL) G Lab File ID: 134668

% Moisture: not dec. 26.5 Date Received: 12/16/99

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 12/17/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 1/5/00

Injection Volume: 2 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	<u>ug/Kg-dry</u>	Q
12674-11-2	Aroclor 1016		134	U
11104-28-2	Aroclor 1221		269	U
11141-16-5	Aroclor 1232		134	U
53469-21-9	Aroclor 1242		895	
12672-29-6	Aroclor 1248		134	U
11097-69-1	Aroclor 1254		566	
11096-82-5	Aroclor 1260		134	U

## SW8082 AROCLOR ORGANICS ANALYSIS DATA SHEET

LR-SS53-ASO

Lab Name: Ecology and Environment, Inc. Contract:

Lab Code: ECEN Case No.: E AND E BUFFALO SDG No.: 9912160

Matrix: (soil/water) SOIL Lab Sample ID: 9912160-13A

Sample wt/vol: 30.56 (g/mL) G Lab File ID: 134701

% Moisture: not dec. 15.2 Date Received: 12/16/99

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 12/17/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 1/5/00

Injection Volume: 2 (uL) Dilution Factor: 200.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	<u>ug/Kg-dry</u>	Q
12674-11-2	Aroclor 1016		4630	U
11104-28-2	Aroclor 1221		9260	U
11141-16-5	Aroclor 1232		4630	U
53469-21-9	Aroclor 1242		4630	U
12672-29-6	Aroclor 1248		4630	U
11097-69-1	Aroclor 1254		25000	
11096-82-5	Aroclor 1260		4630	U



**March 2001 On-Site Surface Soil Method 8082 Data**  
**Note: This data was generated by NYSDEC's Laboratory.**





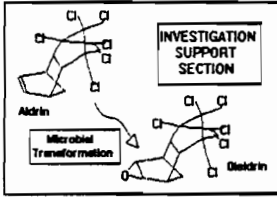
NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF ENVIRONMENTAL REMEDIATION

LABORATORY CASE NARRATIVE

Site Name: Luzerne Road

SDG: 087-01, 089-02, 093-01

The aroclor pattern in the water samples most closely resembles Aroclor 1016 and was therefore quantitated as 1016. Dichloro and trichloro congeners were present in the pattern, while the tetrachloro and pentachloro congeners (that are present in Aroclor 1242, 1248 and 1254) were missing. This probably occurred because the heavier congeners are less soluble in water. The quantitations should be considered estimates. A dilution could not be run on water samples LR-VRS-WO-55, LR-MW25-WO, LR-MW-4S-WO, LR-MW-71-WO, and LR-MW-8S-WO. These are flagged as estimates. The soil samples that showed very high levels were also not diluted and rerun. These are flagged as estimates.



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-SS61-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-14 1/20

Sample wt/vol: 4.52 (g/ml) G

Lab File ID: 01G0517A.D

% Moisture: 12 decanted: (Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

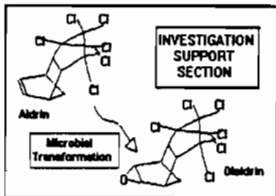
Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		1000	U
11104-28-2	Aroclor 1221		1000	U
11141-16-5	Aroclor 1232		1000	U
53469-21-9	Aroclor 1242		1000	U
12672-29-6	Aroclor 1248		16000	D
11097-69-1	Aroclor 1254		1000	U
11096-82-5	Aroclor 1260		1000	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

LR-SS62-SO

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-15 1/20

Sample wt/vol: 4.36 (g/ml) G

Lab File ID: 01G0492A.D

% Moisture: 6 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/19/01

Injection Volume: 2.0 (uL)

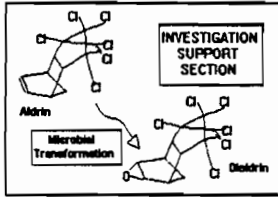
Dilution Factor: 20.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		980	U
11104-28-2	Aroclor 1221		980	U
11141-16-5	Aroclor 1232		980	U
53469-21-9	Aroclor 1242		980	U
12672-29-6	Aroclor 1248		17000	D
11097-69-1	Aroclor 1254		980	U
11096-82-5	Aroclor 1260		980	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

LR-SS63-SO

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-16 1/40

Sample wt/vol: 4.29 (g/ml) G

Lab File ID: 01G0518A.D

% Moisture: 6 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

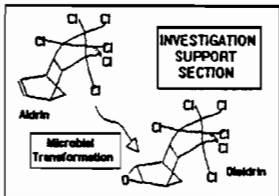
Dilution Factor: 40.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		2000	U
11104-28-2	Aroclor 1221		2000	U
11141-16-5	Aroclor 1232		2000	U
53469-21-9	Aroclor 1242		2000	U
12672-29-6	Aroclor 1248		21000	D
11097-69-1	Aroclor 1254		2000	U
11096-82-5	Aroclor 1260		2000	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-SS64-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-17 1/20

Sample wt/vol: 4.15 (g/ml) G

Lab File ID: 01G0519A.D

% Moisture: 5 decanted: (Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

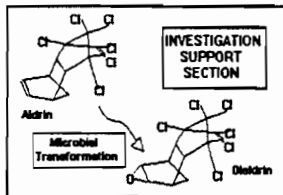
Dilution Factor: 20.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		1000	U
11104-28-2	Aroclor 1221		1000	U
11141-16-5	Aroclor 1232		1000	U
53469-21-9	Aroclor 1242		1000	U
12672-29-6	Aroclor 1248		9700	D
11097-69-1	Aroclor 1254		1000	U
11096-82-5	Aroclor 1260		1000	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-SS65-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-18

Sample wt/vol: 4.34 (g/ml) G

Lab File ID: 01G0390A.D

% Moisture: 8 decanted: (Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/07/01

Injection Volume: 2.0 (uL)

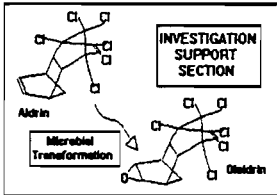
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
12674-11-2	Aroclor 1016		50	U
11104-28-2	Aroclor 1221		50	U
11141-16-5	Aroclor 1232		50	U
53469-21-9	Aroclor 1242		50	U
12672-29-6	Aroclor 1248		690	
11097-69-1	Aroclor 1254		50	U
11096-82-5	Aroclor 1260		50	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-SS65-SD**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-19

Sample wt/vol: 4.34 (g/ml) G

Lab File ID: 01G0392A.D

% Moisture: 8 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/07/01

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		50	U
11104-28-2	Aroclor 1221		50	U
11141-16-5	Aroclor 1232		50	U
53469-21-9	Aroclor 1242		50	U
12672-29-6	Aroclor 1248		660	
11097-69-1	Aroclor 1254		50	U
11096-82-5	Aroclor 1260		50	U





**On-Site Subsurface Soil Method 8082 Data  
(August/September 1999 Only)**



# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-S203-OSD

Lab Order: 9909001

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/31/99 2:36:00 PM

Lab ID: 9909001-05A Sample Type: SAMP

Matrix: SOIL

% Moist: 17.80

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		22.7	µg/Kg-dry	1	9/19/99 5:37:36 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		45.4	µg/Kg-dry	1			
Aroclor 1232	ND		22.7	µg/Kg-dry	1			
Aroclor 1242	23.4		22.7	µg/Kg-dry	1			
Aroclor 1248	ND		22.7	µg/Kg-dry	1			
Aroclor 1254	13.6	J	22.7	µg/Kg-dry	1			
Aroclor 1260	ND		22.7	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	109.2		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	91.7		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10480

Phone: (716) 685-8080

<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-MW5S-NSO
<b>Lab Order:</b> 9909001	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 8/31/99
<b>Lab ID:</b> 9909001-16A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b> 16.50

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		21.9	µg/Kg-dry	1	9/25/99 9:17:41 AM	HP68902A_990924A	RJS
Aroclor 1221	ND		43.9	µg/Kg-dry	1			
Aroclor 1232	ND		21.9	µg/Kg-dry	1			
Aroclor 1242	85.5		21.9	µg/Kg-dry	1			
Aroclor 1248	ND		21.9	µg/Kg-dry	1			
Aroclor 1254	113		21.9	µg/Kg-dry	1			
Aroclor 1260	ND		21.9	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	116.8	*	52-115	%REC	1			
Surr: Tetrachloro-m-xylene	111.9		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-S201-NSO

Lab Order: 9909001

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/31/99 12:09:00 PM

Lab ID: 9909001-04A Sample Type: SAMP

Matrix: SOIL

% Moist: 18.00

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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## PCB ANALYSIS BY METHOD 8082

### 1\_8082\_3550B\_S

Aroclor 1016	ND		22.7	µg/Kg-dry	1	9/19/99 4:55:01 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		45.5	µg/Kg-dry	1			
Aroclor 1232	ND		22.7	µg/Kg-dry	1			
Aroclor 1242	63.0		22.7	µg/Kg-dry	1			
Aroclor 1248	ND		22.7	µg/Kg-dry	1			
Aroclor 1254	ND		22.7	µg/Kg-dry	1			
Aroclor 1260	ND		22.7	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	114.2		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	96.0		39-125	%REC	1			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M - Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-S102-0SO/SD
<b>Lab Order:</b>	9909001	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/31/99 10:49:00 AM
<b>Lab ID:</b>	9909001-03A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	18.60

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		22.3	µg/Kg-dry	1	9/19/99 4:12:24 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		44.6	µg/Kg-dry	1			
Aroclor 1232	ND		22.3	µg/Kg-dry	1			
Aroclor 1242	31.2		22.3	µg/Kg-dry	1			
Aroclor 1248	ND		22.3	µg/Kg-dry	1			
Aroclor 1254	66.9		22.3	µg/Kg-dry	1			
Aroclor 1260	ND		22.3	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	105.1		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	88.4		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10480

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-SW09-NSD

Lab Order: 9909054

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/7/99 12:41:00 PM

Lab ID: 9909054-01A Sample Type: SAMP

Matrix: SOIL

% Moist: 22.8

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analys
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		25.7	µg/Kg-dry	1	9/28/99 2:01:20 AM	HP68902A_990924A	RJS
Aroclor 1221	ND		51.3	µg/Kg-dry	1			
Aroclor 1232	ND		25.7	µg/Kg-dry	1			
Aroclor 1242	ND		25.7	µg/Kg-dry	1			
Aroclor 1248	ND		25.7	µg/Kg-dry	1			
Aroclor 1254	ND		25.7	µg/Kg-dry	1			
Aroclor 1260	ND		25.7	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	98.1		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	90.2		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Road

**Lab Order:** 9909091

# Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

### PCB

The column used for analysis was an RTX-5, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

Sample LR-S502-ASD required analysis at a secondary dilution due to the level of Aroclor 1254 present. Surrogate recoveries were elevated for this sample due to matrix interferences.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
October 18, 1999

2



Test Code: 1\_8082\_3550B\_S  
 Test Number: SW8082  
 Test Name: PCBs by Method 8082  
 Matrix: Solid Units: µg/Kg

**METHOD DETECTION /  
 REPORTING LIMITS**

Updated:

Type	Analyte	MDL	PQL	UQL	MCL
A	Aroclor 1016	5.2	20	1	0
A	Aroclor 1221	23	40	1	0
A	Aroclor 1232	4.34	20	1	0
A	Aroclor 1242	15.3	20	1	0
A	Aroclor 1248	11.4	20	1	0
A	Aroclor 1254	2.91	20	1	0
A	Aroclor 1260	3.57	20	1	0
S	Decachlorobiphenyl	0	0	0	0
S	Tetrachloro-m-xylene	0	0	0	0

# Ecology and Environment, Inc.

# Laboratory Results

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 1000  
Phone: (716) 685-9900

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-S403-CSD
<b>Lab Order:</b>	9909091	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/9/99 7:58:00 AM
<b>Lab ID:</b>	9909091-01A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyte
<b>PCB ANALYSIS BY METHOD 8082</b>								
<b>1_8082_3550B_S</b>								
Aroclor 1016	ND		25.9	µg/Kg-dry	1	9/27/99 11:10:53 PM	HP68902A_990924A	
Aroclor 1221	ND		51.7	µg/Kg-dry	1			
Aroclor 1232	ND		25.9	µg/Kg-dry	1			
Aroclor 1242	32.6		25.9	µg/Kg-dry	1			
Aroclor 1248	ND		25.9	µg/Kg-dry	1			
Aroclor 1254	83.7		25.9	µg/Kg-dry	1			
Aroclor 1260	ND		25.9	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	91.5		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	89.6		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10480

Phone: (716) 685-8081

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-S502-ASD
<b>Lab Order:</b>	9909091	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/9/99 9:29:00 AM
<b>Lab ID:</b>	9909091-02A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	9.0

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		220	µg/Kg-dry	10	10/1/99 4:47:36 PM	HP58901A_990929C	GSR
Aroclor 1221	ND		440	µg/Kg-dry	10			
Aroclor 1232	ND		220	µg/Kg-dry	10			
Aroclor 1242	230		220	µg/Kg-dry	10			
Aroclor 1248	ND		220	µg/Kg-dry	10			
Aroclor 1254	927		220	µg/Kg-dry	10			
Aroclor 1260	ND		220	µg/Kg-dry	10			
Surr: Decachlorobiphenyl	177.6	*	52-115	%REC	10			
Surr: Tetrachloro-m-xylene	144.4	*	39-125	%REC	10			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Road

**Lab Order:** 9909054

## Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

### PCB

The column used for analysis was an RTX-5, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

A discrepancy was noted between the sample identification numbers listed on the chain of custody record with those on the container labels. The chain of custody numbers of LR-SW09-NSD and LR-N201-LSD were applied. The containers were labeled as LR-SE09-NSD and LR-N102-LSD.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
October 18, 1999

Test Code: I\_8082\_3550B\_S  
 Test Number: SW8082  
 Test Name: PCBs by Method 8082  
 Matrix: Solid Units: µg/Kg

**METHOD DETECTION /  
 REPORTING LIMITS**

Updated:

Type	Analyte	MDL	PQL	UQL	MCL
A	Aroclor 1016	5.2	20	1	0
A	Aroclor 1221	23	40	1	0
A	Aroclor 1232	4.34	20	1	0
A	Aroclor 1242	15.3	20	1	0
A	Aroclor 1248	11.4	20	1	0
A	Aroclor 1254	2.91	20	1	0
A	Aroclor 1260	3.57	20	1	0
S	Decachlorobiphenyl	0	0	0	0
S	Tetrachloro-m-xylene	0	0	0	0

# Ecology and Environment, Inc.

# Laboratory Report

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#:   
Phone: (716) 685-8

<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-N201-LSD
<b>Lab Order:</b> 9909054	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 9/7/99 2:30:00 PM
<b>Lab ID:</b> 9909054-02A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b>

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID
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**PCB ANALYSIS BY METHOD 8082**  
**1\_8082\_3550B\_S**

Aroclor 1016	ND		23.9	µg/Kg-dry	1	9/28/99 2:43:57 AM	HP68902A_990924A
Aroclor 1221	ND		47.8	µg/Kg-dry	1		
Aroclor 1232	ND		23.9	µg/Kg-dry	1		
Aroclor 1242	ND		23.9	µg/Kg-dry	1		
Aroclor 1248	ND		23.9	µg/Kg-dry	1		
Aroclor 1254	ND		23.9	µg/Kg-dry	1		
Aroclor 1260	ND		23.9	µg/Kg-dry	1		
Surr: Decachlorobiphenyl	82.4		52-115	%REC	1		
Surr: Tetrachloro-m-xylene	83.8		39-125	%REC	1		

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28 99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10480

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-E301-MSD

Lab Order: 9909054

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/7/99 5:23:00 PM

Lab ID: 9909054-03A Sample Type: SAMP

Matrix: SOIL

% Moist: 26.8

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		26.7	µg/Kg-dry	1	9/28/99 3:26:36 AM	HP68902A_990924A	RJS
Aroclor 1221	ND		53.3	µg/Kg-dry	1			
Aroclor 1232	ND		26.7	µg/Kg-dry	1			
Aroclor 1242	ND		26.7	µg/Kg-dry	1			
Aroclor 1248	ND		26.7	µg/Kg-dry	1			
Aroclor 1254	ND		26.7	µg/Kg-dry	1			
Aroclor 1260	ND		26.7	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	97.2		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	93.7		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

**Ecology and Environment, Inc.**

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Road

**Lab Order:** 9909072

**Laboratory Results**

NYS ELAP ID#: 10486

**CASE NARRATIVE**

PCB

The column used for analysis was an RTX-5, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technical and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
October 18, 1999



**Ecology and Environment, Inc.**  
Analytical Services Center  
4493 Walden Avenue  
Lancaster, New York 14086

## Laboratory Results

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

October 18, 1999

Mr. Steve Blair  
Ecology & Environment, Inc.  
368 Pleasant View Dr.  
Lancaster, NY 14086

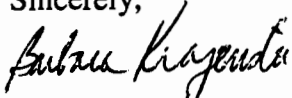
RE: Luzerne Road – 000699.QQ08.00.02.70  
Work Order No.: 9909072

Dear Mr. Blair,

Ecology and Environment, Inc. received 4 samples on Thursday, September 09, 1999 for the analyses presented in the following report.

E & E will retain the samples addressed in this report for 30 days, unless otherwise instructed by the client. If additional storage is requested, the storage fee is \$1.00 per sample container per month, to accrue until the client authorizes sample destruction.

Sincerely,



Barbara Krajewski  
Project Manager

CC: Lab File

Test Code: I\_8082\_3550B\_S

Test Number: SW8082

Test Name: PCBs by Method 8082

Matrix: Solid Units: µg/Kg

**METHOD DETECTION /  
REPORTING LIMITS**

Updated:

Type	Analyte	MDL	PQL	UQL	MCL
A	Aroclor 1016	5.2	20	1	0
A	Aroclor 1221	23	40	1	0
A	Aroclor 1232	4.34	20	1	0
A	Aroclor 1242	15.3	20	1	0
A	Aroclor 1248	11.4	20	1	0
A	Aroclor 1254	2.91	20	1	0
A	Aroclor 1260	3.57	20	1	0
S	Decachlorobiphenyl	0	0	0	0
S	Tetrachloro-m-xylene	0	0	0	0

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 104  
Phone: (716) 685-8000

CLIENT: E and E Buffalo Office

Client Sample ID: LR-E202-NSD

Lab Order: 9909072

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/8/99 8:44:00 AM

Lab ID: 9909072-01A Sample Type: SAMP

Matrix: SOIL

% Moist: 19

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyte
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**PCB ANALYSIS BY METHOD 8082**  
**1\_8082\_3550B\_S**

Aroclor 1016	ND		24.1	µg/Kg-dry	1	9/28/99 4:09:16 AM	HP68902A_990924A	RJ
Aroclor 1221	ND		48.2	µg/Kg-dry	1			
Aroclor 1232	ND		24.1	µg/Kg-dry	1			
Aroclor 1242	ND		24.1	µg/Kg-dry	1			
Aroclor 1248	ND		24.1	µg/Kg-dry	1			
Aroclor 1254	ND		24.1	µg/Kg-dry	1			
Aroclor 1260	ND		24.1	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	97.1		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	89.7		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#:   
Phone: (716) 685-8000

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W510-KSD
<b>Lab Order:</b>	9909072	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/8/99 10:20:00 AM
<b>Lab ID:</b>	9909072-02A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	A
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**PCB ANALYSIS BY METHOD 8082**  
**1\_8082\_3550B\_S**

Aroclor 1016	ND		24.6	µg/Kg-dry	1	9/28/99 6:17:13 AM	HP68902A_990924A	R
Aroclor 1221	ND		49.3	µg/Kg-dry	1			
Aroclor 1232	ND		24.6	µg/Kg-dry	1			
Aroclor 1242	ND		24.6	µg/Kg-dry	1			
Aroclor 1248	ND		24.6	µg/Kg-dry	1			
Aroclor 1254	ND		24.6	µg/Kg-dry	1			
Aroclor 1260	ND		24.6	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	99.8		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	101.2		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9:28:99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Result

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 1048

Phone: (716) 685-808

CLIENT: E and E Buffalo Office

Client Sample ID: LR-S504-PSD

Lab Order: 9909072

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/8/99 12:42:00 PM

Lab ID: 9909072-03A Sample Type: SAMP

Matrix: SOIL

% Moist: 22.

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		25.0	µg/Kg-dry	1	9/28/99 6:59:48 AM	HP68902A_990924A	RJS
Aroclor 1221	ND		50.1	µg/Kg-dry	1			
Aroclor 1232	ND		25.0	µg/Kg-dry	1			
Aroclor 1242	ND		25.0	µg/Kg-dry	1			
Aroclor 1248	ND		25.0	µg/Kg-dry	1			
Aroclor 1254	7.38	J	25.0	µg/Kg-dry	1			
Aroclor 1260	ND		25.0	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	95.2		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	95.1		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9 28 99 2:00:00 PM

**Ecology and Environment, Inc.**

**Analytical Services Center**

4493 Walden Avenue  
Lancaster, New York 14086

**Laboratory Res**

NYS ELAP ID#: 4

Phone: (716) 685-80

**CLIENT:** E and E Buffalo Office **Client Sample ID:** LR-W502-LSD  
**Lab Order:** 9909072 **Alt. Client ID:**  
**Project:** Luzerne Road **Collection Date:** 9/8/99 4:00:00 PM  
**Lab ID:** 9909072-04A **Sample Type:** SAMP **Matrix:** SOIL **% Moist:**

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	A
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**PCB ANALYSIS BY METHOD 8082**  
**1\_8082\_3550B\_S**

Aroclor 1016	ND		25.1	µg/Kg-dry	1	9/28/99 7:42:24 AM	HP68902A_990924A	RJ
Aroclor 1221	ND		50.2	µg/Kg-dry	1			
Aroclor 1232	ND		25.1	µg/Kg-dry	1			
Aroclor 1242	ND		25.1	µg/Kg-dry	1			
Aroclor 1248	ND		25.1	µg/Kg-dry	1			
Aroclor 1254	10.3	J	25.1	µg/Kg-dry	1			
Aroclor 1260	ND		25.1	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	94.0		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	91.7		39-125	%REC	1			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M -Matrix Spike recovery outside limits  
 J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
 H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9 28 99 2:00:00 PM

## Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Road

**Lab Order:** 9909013

## Laboratory Results

NYS ELAP ID#: 10486

### CASE NARRATIVE

#### PCB


The column used for analysis was an RTX-5, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

Several samples required analysis at secondary dilutions due to the level of Aroclors present. Surrogate compounds were diluted out of these samples.

Trace levels (below the PQL) of Aroclor 1254 and Aroclor 1242 were detected in the method blank. Sample values less than 10 times the blank amounts should be considered suspect.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
October 18, 1999

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: \_\_\_\_\_

Phone: (716) 685-80\_\_\_\_

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W508-KSD
<b>Lab Order:</b>	9909013	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/1/99 8:39:00 AM
<b>Lab ID:</b>	9909013-02A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	1

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		21.8	µg/Kg-dry	1	10/1/99 1:45:40 AM	HP58901A_990929C	GS
Aroclor 1221	ND		43.6	µg/Kg-dry	1			
Aroclor 1232	ND		21.8	µg/Kg-dry	1			
Aroclor 1242	49.3		21.8	µg/Kg-dry	1			
Aroclor 1248	ND		21.8	µg/Kg-dry	1			
Aroclor 1254	33.8		21.8	µg/Kg-dry	1			
Aroclor 1260	ND		21.8	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	104.4		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	95.7		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limit
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM





# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: \_\_\_\_\_

Phone: (716) 685-8000

**CLIENT:** E and E Buffalo Office

**Client Sample ID:** LR-W104-ASD

**Lab Order:** 9909013

**Alt. Client ID:**

**Project:** Luzerne Road

**Collection Date:** 9/1/99 2:51:00 PM

**Lab ID:** 9909013-04A **Sample Type:** SAMP

**Matrix:** SOIL

**% Moist:**

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		1920	µg/Kg-dry	100	10/1/99 3:07:32 AM	HP58901A_990929C	GS
Aroclor 1221	ND		3840	µg/Kg-dry	100			
Aroclor 1232	ND		1920	µg/Kg-dry	100			
Aroclor 1242	8930		1920	µg/Kg-dry	100			
Aroclor 1248	ND		1920	µg/Kg-dry	100			
Aroclor 1254	9130		1920	µg/Kg-dry	100			
Aroclor 1260	ND		1920	µg/Kg-dry	100			
Surr: Decachlorobiphenyl	DL *		52-115	%REC	100			
Surr: Tetrachloro-m-xylene	DL *		39-125	%REC	100			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W104-ASD-D
<b>Lab Order:</b>	9909013	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/1/99 2:51:00 PM
<b>Lab ID:</b>	9909013-05A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	3.6

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analys
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		1930	µg/Kg-dry	100	10/1/99 3:48:33 AM	HP58901A_990929C	GSR
Aroclor 1221	ND		3870	µg/Kg-dry	100			
Aroclor 1232	ND		1930	µg/Kg-dry	100			
Aroclor 1242	10700		1930	µg/Kg-dry	100			
Aroclor 1248	ND		1930	µg/Kg-dry	100			
Aroclor 1254	9920		1930	µg/Kg-dry	100			
Aroclor 1260	ND		1930	µg/Kg-dry	100			
Surr: Decachlorobiphenyl	DL *		52-115	%REC	100			
Surr: Tetrachloro-m-xylene	DL *		39-125	%REC	100			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limit
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 104

Phone: (716) 685

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W104-LSD
<b>Lab Order:</b>	9909013	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/1/99 3:35:00 PM
<b>Lab ID:</b>	9909013-06A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Anal
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### PCB ANALYSIS BY METHOD 8082

#### 1\_8082\_3550B\_S

Aroclor 1016	ND		21.9	µg/Kg-dry	1	10/1/99 4:29:31 AM	HP58901A_990929C	
Aroclor 1221	ND		43.8	µg/Kg-dry	1			
Aroclor 1232	ND		21.9	µg/Kg-dry	1			
Aroclor 1242	126		21.9	µg/Kg-dry	1			
Aroclor 1248	ND		21.9	µg/Kg-dry	1			
Aroclor 1254	25.4		21.9	µg/Kg-dry	1			
Aroclor 1260	ND		21.9	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	102.6		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	89.2		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1048

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-W203-KSD

Lab Order: 9909013

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/1/99 4:20:00 PM

Lab ID: 9909013-07A Sample Type: SAMP

Matrix: SOIL

% Moist: 18.9

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyte
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		114000	µg/Kg-dry	5000	10/4/99 5:23:10 PM	HP58901A_990929C	GSF
Aroclor 1221	ND		228000	µg/Kg-dry	5000			
Aroclor 1232	ND		114000	µg/Kg-dry	5000			
Aroclor 1242	604000		114000	µg/Kg-dry	5000			
Aroclor 1248	ND		114000	µg/Kg-dry	5000			
Aroclor 1254	116000		114000	µg/Kg-dry	5000			
Aroclor 1260	ND		114000	µg/Kg-dry	5000			
Surr: Decachlorobiphenyl	DL *		52-115	%REC	5000			
Surr: Tetrachloro-m-xylene	DL *		39-125	%REC	5000			

Definitions:			
ND - Not Detected at the Reporting Limit		* - Recovery outside limits	M - Matrix Spike recovery outside limit
J - Analyte detected below Reporting limits		R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank		E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level		Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 1048

Phone: (716) 685-8

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W304-LSO
<b>Lab Order:</b>	9909013	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/1/99 2:37:00 PM
<b>Lab ID:</b>	9909013-01A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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**TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN**

1\_LK\_TOC\_S

Total Organic Carbon	ND		2360	mg/Kg-dry	1	9/7/99	TOC 5000A_990907A	
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<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside li
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

275

# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Project: Luzerne Rd.

Lab Order: 9908259

# Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

Insufficient ice was packed in the shipping cooler and samples were received at 18°C.

A sample container labeled LR-W705-CSD was received but was identified as LR-W706-CSD on the chain of custody. The chain of custody sample number has been referenced in the is report.

### PCB

The column used for analysis was an RTX-35, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

Recovery of the surrogate decachlorobiphenyl was slightly high for sample LR-W711-HSD and its associated laboratory control sample and method blank. Recoveries of all other surrogate and matrix spike compounds were within acceptable limits.

Sample LR-W706-CSD was analyzed at a secondary dilution based on screening results and the physical appearance of the extract.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 30, 1999

# Ecology and Environment, Inc.

# Laboratory Results

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#:   
Phone: (716) 685-80

<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-W711-HSD
<b>Lab Order:</b> 9908259	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 8/27/99 8:09:00 AM
<b>Lab ID:</b> 9908259-01A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b> 2

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID
<b>PCB ANALYSIS BY METHOD 8082</b>							
<b>1_8082_3550B_S</b>							
Aroclor 1016	ND		23.6	µg/Kg-dry	1	9/18/99 6:58:36 PM	HP68902B_990915A
Aroclor 1221	ND		47.1	µg/Kg-dry	1		
Aroclor 1232	ND		23.6	µg/Kg-dry	1		
Aroclor 1242	20.7	J	23.6	µg/Kg-dry	1		
Aroclor 1248	ND		23.6	µg/Kg-dry	1		
Aroclor 1254	11.0	J	23.6	µg/Kg-dry	1		
Aroclor 1260	ND		23.6	µg/Kg-dry	1		
Surr: Decachlorobiphenyl	118.1	*	52-115	%REC	1		
Surr: Tetrachloro-m-xylene	100.4		39-125	%REC	1		

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9:28/99 2:00:00 PM



# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Result

NYS ELAP ID#: 1048

Phone: (716) 685-808

CLIENT: E and E Buffalo Office

Client Sample ID: LR-W706-CSD

Lab Order: 9908259

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/27/99 10:59:00 AM

Lab ID: 9908259-02A Sample Type: SAMP

Matrix: SOIL

% Moist: 3.

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		93.6	µg/Kg-dry	5	9/18/99 7:41:12 PM	HP68902B_990915A	RJS
Aroclor 1221	ND		187	µg/Kg-dry	5			
Aroclor 1232	ND		93.6	µg/Kg-dry	5			
Aroclor 1242	ND		93.6	µg/Kg-dry	5			
Aroclor 1248	ND		93.6	µg/Kg-dry	5			
Aroclor 1254	73.5	J	93.6	µg/Kg-dry	5			
Aroclor 1260	ND		93.6	µg/Kg-dry	5			
Surr: Decachlorobiphenyl	92.6		52-115	%REC	5			
Surr: Tetrachloro-m-xylene	58.3		39-125	%REC	5			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

**Ecology and Environment, Inc.**

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Rd.

**Lab Order:** 9908136

**Laboratory Result**

NYS ELAP ID#: 1048

**CASE NARRATIVE**

PCB

The column used for analysis was an RTX-35, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

Results for sample LR-W507-ASD submitted electronically were incorrect. The sample weight applied in the initial calculation was incorrect. Correct results are included in this report.

Recovery of the surrogate decachlorobiphenyl was high for sample LR-S303-ASD. Recovery of the surrogate tetrachloro-m-xylene was low for samples LR-S101-FSO and LR-S101-NSO. Matrix interferences are suspected. All other surrogate recoveries were within acceptable limits.

Sample LR-S303-ASD required analysis at a secondary dilution due to the level of Aroclor 1254 detected.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 29, 1999

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 104

Phone: (716) 685-80

<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-W507-ASD
<b>Lab Order:</b> 9908136	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 08/12/1999 7:55:00 AM
<b>Lab ID:</b> 9908136-01A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b> 5

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Anal
<b>PCB ANALYSIS BY METHOD 8082</b>								
<b>1_8082_3550B_S</b>								
Aroclor 1016	ND		20.7	µg/Kg-dry	1	09/08/1999 6:41:31 PM	HP58901A_990907A	RF
Aroclor 1221	ND		41.4	µg/Kg-dry	1			
Aroclor 1232	ND		20.7	µg/Kg-dry	1			
Aroclor 1242	147		20.7	µg/Kg-dry	1			
Aroclor 1248	ND		20.7	µg/Kg-dry	1			
Aroclor 1254	241		20.7	µg/Kg-dry	1			
Aroclor 1260	ND		20.7	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	95.4		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	75.1		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 09/28/1999 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: \_\_\_\_\_

Phone: (716) 685-8088

**CLIENT:** E and E Buffalo Office **Client Sample ID:** LR-W509-ASD  
**Lab Order:** 9908136 **Alt. Client ID:** \_\_\_\_\_  
**Project:** Luzerne Road **Collection Date:** 8/12/99 8:51:00 AM  
**Lab ID:** 9908136-02A **Sample Type:** SAMP **Matrix:** SOIL **% Moist:** \_\_\_\_\_

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	A
<b>PCB ANALYSIS BY METHOD 8082</b>								
<b>1_8082_3550B_S</b>								
Aroclor 1016	ND		20.7	µg/Kg-dry	1	9/8/99 7:22:26 PM	HP58901A_990907A	RN
Aroclor 1221	ND		41.4	µg/Kg-dry	1			
Aroclor 1232	ND		20.7	µg/Kg-dry	1			
Aroclor 1242	ND		20.7	µg/Kg-dry	1			
Aroclor 1248	ND		20.7	µg/Kg-dry	1			
Aroclor 1254	21.0	J	20.7	µg/Kg-dry	1			
Aroclor 1260	ND		20.7	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	78.1		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	58.9		39-125	%REC	1			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M - Matrix Spike recovery outside limits  
 J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
 H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1040

Phone: (716) 685-8000

<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-S507-CSD
<b>Lab Order:</b> 9908136	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 8/12/99 10:17:00 AM
<b>Lab ID:</b> 9908136-03A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b> 4

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
<b>PCB ANALYSIS BY METHOD 8082</b>								
<b>1_8082_3550B_S</b>								
Aroclor 1016	ND		20.4	µg/Kg-dry	1	9/8/99 8:03:27 PM	HP58901A_990907A	RM
Aroclor 1221	ND		40.8	µg/Kg-dry	1			
Aroclor 1232	ND		20.4	µg/Kg-dry	1			
Aroclor 1242	ND		20.4	µg/Kg-dry	1			
Aroclor 1248	ND		20.4	µg/Kg-dry	1			
Aroclor 1254	40.6		20.4	µg/Kg-dry	1			
Aroclor 1260	ND		20.4	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	88.0		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	44.5		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#:   
Phone: (716) 685-80

<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-S406-ESD
<b>Lab Order:</b> 9908136	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 8/12/99 12:10:00 PM
<b>Lab ID:</b> 9908136-04A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b>

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		20.2	µg/Kg-dry	1	9/8/99 8:44:25 PM	HP58901A_990907A
Aroclor 1221	ND		40.4	µg/Kg-dry	1		
Aroclor 1232	ND		20.2	µg/Kg-dry	1		
Aroclor 1242	32.8		20.2	µg/Kg-dry	1		
Aroclor 1248	ND		20.2	µg/Kg-dry	1		
Aroclor 1254	266		20.2	µg/Kg-dry	1		
Aroclor 1260	101		20.2	µg/Kg-dry	1		
Surr: Decachlorobiphenyl	85.5		52-115	%REC	1		
Surr: Tetrachloro-m-xylene	69.5		39-125	%REC	1		

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10480

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-S406-ESD-D

Lab Order: 9908136

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/12/99 12:11:00 PM

Lab ID: 9908136-05A Sample Type: SAMP

Matrix: SOIL

% Moist: 2.4

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		19.9	µg/Kg-dry	1	9/8/99 9:25:22 PM	HP58901A_990907A	RN
Aroclor 1221	ND		39.8	µg/Kg-dry	1			
Aroclor 1232	ND		19.9	µg/Kg-dry	1			
Aroclor 1242	29.6		19.9	µg/Kg-dry	1			
Aroclor 1248	ND		19.9	µg/Kg-dry	1			
Aroclor 1254	257		19.9	µg/Kg-dry	1			
Aroclor 1260	108		19.9	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	84.1		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	65.4		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 

Phone: (716) 685-808

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-S301-NSD
<b>Lab Order:</b>	9908136	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/13/99 8:38:00 AM
<b>Lab ID:</b>	9908136-06A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	19.1

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Ar
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1221	ND		48.7	µg/Kg-dry	1	9/8/99 10:06:13 PM	HP58901A_990907A	RN
Aroclor 1232	ND		24.3	µg/Kg-dry	1			
Aroclor 1242	21.0	J	24.3	µg/Kg-dry	1			
Aroclor 1248	ND		24.3	µg/Kg-dry	1			
Aroclor 1254	9.60	J	24.3	µg/Kg-dry	1			
Aroclor 1260	ND		24.3	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	81.1		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	46.1		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM



# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-S303-ASD

Lab Order: 9908136

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/12/99 5:22:00 PM

Lab ID: 9908136-07A Sample Type: SAMP

Matrix: SOIL

% Moist: 5.7

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		2080	µg/Kg-dry	100	9/8/99 10:47:10 PM	HP58901A_990907A	RN
Aroclor 1221	ND		4160	µg/Kg-dry	100			
Aroclor 1232	ND		2080	µg/Kg-dry	100			
Aroclor 1242	ND		2080	µg/Kg-dry	100			
Aroclor 1248	ND		2080	µg/Kg-dry	100			
Aroclor 1254	19200		2080	µg/Kg-dry	100			
Aroclor 1260	4190		2080	µg/Kg-dry	100			
Surr: Decachlorobiphenyl	264.4	*	52-115	%REC	100			
Surr: Tetrachloro-m-xylene	86.0		39-125	%REC	100			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#:

Phone: (716) 685-8

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-S101-FSO
<b>Lab Order:</b>	9908136	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/16/99 11:48:00 AM
<b>Lab ID:</b>	9908136-08A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		20.8	µg/Kg-dry	1	9/8/99 11:28:04 PM	HP58901A_990907A
Aroclor 1221	ND		41.7	µg/Kg-dry	1		
Aroclor 1232	ND		20.8	µg/Kg-dry	1		
Aroclor 1242	ND		20.8	µg/Kg-dry	1		
Aroclor 1248	ND		20.8	µg/Kg-dry	1		
Aroclor 1254	ND		20.8	µg/Kg-dry	1		
Aroclor 1260	ND		20.8	µg/Kg-dry	1		
Surr: Decachlorobiphenyl	60.5		52-115	%REC	1		
Surr: Tetrachloro-m-xylene	38.9	*	39-125	%REC	1		

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside li
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

**Ecology and Environment, Inc.**

**Laboratory Result**

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 1048

Phone: (716) 685-808

CLIENT: E and E Buffalo Office

Client Sample ID: LR-S101-NSO

Lab Order: 9908136

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/16/99 12:12:00 PM

Lab ID: 9908136-09A Sample Type: SAMP

Matrix: SOIL

% Moist: 17.1

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		23.9	µg/Kg-dry	1	9/9/99 1:30:58 AM	HP58901A_990907A	RN
Aroclor 1221	ND		47.8	µg/Kg-dry	1			
Aroclor 1232	ND		23.9	µg/Kg-dry	1			
Aroclor 1242	37.8		23.9	µg/Kg-dry	1			
Aroclor 1248	ND		23.9	µg/Kg-dry	1			
Aroclor 1254	16.0	J	23.9	µg/Kg-dry	1			
Aroclor 1260	ND		23.9	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	70.8		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	36.0	*	39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: \_\_\_\_\_

Phone: (716) 685-8000

CLIENT: E and E Buffalo Office

Client Sample ID: LR-S101-HSO

Lab Order: 9908136

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/16/99 1:40:00 PM

Lab ID: 9908136-10A Sample Type: SAMP

Matrix: SOIL

% Moist: 6

Analyte

Result Q

Limit

Units

DF

Date Analyzed

Run Batch ID

A

**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	A
Aroclor 1016	ND		20.8	µg/Kg-dry	1	9/9/99 2:11:56 AM	HP58901A_990907A	RN
Aroclor 1221	ND		41.5	µg/Kg-dry	1			
Aroclor 1232	ND		20.8	µg/Kg-dry	1			
Aroclor 1242	ND		20.8	µg/Kg-dry	1			
Aroclor 1248	ND		20.8	µg/Kg-dry	1			
Aroclor 1254	ND		20.8	µg/Kg-dry	1			
Aroclor 1260	ND		20.8	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	74.0		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	44.2		39-125	%REC	1			

**Definitions:**

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M - Matrix Spike recovery outside limits

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

H - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-S105-MSD

Lab Order: 9908136

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/16/99 3:50:00 PM

Lab ID: 9908136-11A Sample Type: SAMP

Matrix: SOIL

% Moist: 4.2

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		20.5	µg/Kg-dry	1	9/9/99 2:52:57 AM	HP58901A_990907A	RN
Aroclor 1221	ND		40.9	µg/Kg-dry	1			
Aroclor 1232	ND		20.5	µg/Kg-dry	1			
Aroclor 1242	ND		20.5	µg/Kg-dry	1			
Aroclor 1248	ND		20.5	µg/Kg-dry	1			
Aroclor 1254	ND		20.5	µg/Kg-dry	1			
Aroclor 1260	ND		20.5	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	90.1		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	52.6		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#:

Phone: (716) 685-8000

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-S105-OSD
<b>Lab Order:</b>	9908136	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/16/99 4:05:00 PM
<b>Lab ID:</b>	9908136-12A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	1

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		23.8	µg/Kg-dry	1	9/9/99 3:33:55 AM	HP58901A_990907A
Aroclor 1221	ND		47.6	µg/Kg-dry	1		
Aroclor 1232	ND		23.8	µg/Kg-dry	1		
Aroclor 1242	ND		23.8	µg/Kg-dry	1		
Aroclor 1248	ND		23.8	µg/Kg-dry	1		
Aroclor 1254	ND		23.8	µg/Kg-dry	1		
Aroclor 1260	ND		23.8	µg/Kg-dry	1		
Surr: Decachlorobiphenyl	76.5		52-115	%REC	1		
Surr: Tetrachloro-m-xylene	52.5		39-125	%REC	1		

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Project: Luzerne Rd.

Lab Order: 9908268

# Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

### PCB

The column used for analysis was an RTX-35, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

Samples LR-W407-KSD and LR-W308-KSD required analysis at a secondary dilution due to the level of Aroclors present. Surrogate compounds were diluted out of sample LR-W407-KSD.

Recovery of the surrogate decachlorobiphenyl was slightly high for the laboratory control sample and method blank. Recovery of the second surrogate tetrachloro-m-xylene was within acceptable limits.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 30, 1999

002

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1008

Phone: (716) 685-8588

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W205-HSD
<b>Lab Order:</b>	9908268	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/30/99 12:07:00 PM
<b>Lab ID:</b>	9908268-01A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		22.0	µg/Kg-dry	1	9/18/99 9:49:01 PM	HP68902B_990915A	785
Aroclor 1221	ND		43.9	µg/Kg-dry	1			
Aroclor 1232	ND		22.0	µg/Kg-dry	1			
Aroclor 1242	24.4		22.0	µg/Kg-dry	1			
Aroclor 1248	ND		22.0	µg/Kg-dry	1			
Aroclor 1254	8.97	J	22.0	µg/Kg-dry	1			
Aroclor 1260	ND		22.0	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	99.7		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	84.1		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM



# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-W506-ISD

Lab Order: 9908268

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/30/99 2:50:00 PM

Lab ID: 9908268-02A Sample Type: SAMP

Matrix: SOIL

% Moist: 14.2

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analys
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		21.6	µg/Kg-dry	1	9/18/99 10:31:36 PM	HP68902B_990915A	RJS
Aroclor 1221	ND		43.1	µg/Kg-dry	1			
Aroclor 1232	ND		21.6	µg/Kg-dry	1			
Aroclor 1242	41.0		21.6	µg/Kg-dry	1			
Aroclor 1248	ND		21.6	µg/Kg-dry	1			
Aroclor 1254	13.3	J	21.6	µg/Kg-dry	1			
Aroclor 1260	ND		21.6	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	114.4		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	95.5		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Res

NYS ELAP ID#: 1048

Phone: (716) 685-0000

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W407-KSD
<b>Lab Order:</b>	9908268	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/30/99 3:51:00 PM
<b>Lab ID:</b>	9908268-03A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyte
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		452	µg/Kg-dry	20	9/25/99 7:09:47 AM	HP68902A_990924A	
Aroclor 1221	ND		904	µg/Kg-dry	20			
Aroclor 1232	ND		452	µg/Kg-dry	20			
Aroclor 1242	1660		452	µg/Kg-dry	20			
Aroclor 1248	ND		452	µg/Kg-dry	20			
Aroclor 1254	436	J	452	µg/Kg-dry	20			
Aroclor 1260	ND		452	µg/Kg-dry	20			
Surr: Decachlorobiphenyl	00.0	DL	52-115	%REC	20			
Surr: Tetrachloro-m-xylene	00.0	DL	39-125	%REC	20			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10480

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-W308-KSD

Lab Order: 9908268

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/30/99 5:05:00 PM

Lab ID: 9908268-04A Sample Type: SAMP

Matrix: SOIL

% Moist: 19.5

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analys
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		234	µg/Kg-dry	10	9/25/99 7:52:25 AM	HP68902A_990924A	RJS
Aroclor 1221	ND		468	µg/Kg-dry	10			
Aroclor 1232	ND		234	µg/Kg-dry	10			
Aroclor 1242	1150		234	µg/Kg-dry	10			
Aroclor 1248	ND		234	µg/Kg-dry	10			
Aroclor 1254	308		234	µg/Kg-dry	10			
Aroclor 1260	ND		234	µg/Kg-dry	10			
Surr: Decachlorobiphenyl	115.1	*	52-115	%REC	10			
Surr: Tetrachloro-m-xylene	98.7		39-125	%REC	10			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Res

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 178  
Phone: (716) 685-808

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W306-LSD
<b>Lab Order:</b>	9908268	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/30/99 2:09:00 PM
<b>Lab ID:</b>	9908268-05A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Approval
<b>PCB ANALYSIS BY METHOD 8082</b>								
<b>1_8082_3550B_S</b>								
Aroclor 1016	ND		23.0	µg/Kg-dry	1	9/19/99 12:39:24 AM	HP68902B_990915A	RS
Aroclor 1221	ND		45.9	µg/Kg-dry	1			
Aroclor 1232	ND		23.0	µg/Kg-dry	1			
Aroclor 1242	ND		23.0	µg/Kg-dry	1			
Aroclor 1248	ND		23.0	µg/Kg-dry	1			
Aroclor 1254	5.20	J	23.0	µg/Kg-dry	1			
Aroclor 1260	ND		23.0	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	105.5		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	88.9		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-MW35-ESD

Lab Order: 9908268

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/30/99 12:06:00 PM

Lab ID: 9908268-06A Sample Type: SAMP

Matrix: SOIL

% Moist: 3.89

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		20.2	µg/Kg-dry	1	9/19/99 1:22:01 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		40.5	µg/Kg-dry	1			
Aroclor 1232	ND		20.2	µg/Kg-dry	1			
Aroclor 1242	35.2		20.2	µg/Kg-dry	1			
Aroclor 1248	ND		20.2	µg/Kg-dry	1			
Aroclor 1254	4.86	J	20.2	µg/Kg-dry	1			
Aroclor 1260	ND		20.2	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	109.4		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	92.8		39-125	%REC	1			

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Rd.

**Lab Order:** 9908216

# Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

### PCB

The column used for analysis was an RTX-35, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

Recovery of the surrogate decachlorobiphenyl was high for sample LR-W604-CSO. Recovery of the second surrogate tetrachloro-m-xylene was within acceptable limits. This sample required analysis at a secondary dilution based on the level of Aroclors present.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 30, 1999

002

# Ecology and Environment, Inc.

# Laboratory Result

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 1048

Phone: (716) 685-8081

CLIENT: E and E Buffalo Office

Client Sample ID: LR-N2O4-LSO

Lab Order: 9908216

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/24/99 8:47:00 AM

Lab ID: 9908216-01A Sample Type: SAMP

Matrix: SOIL

% Moist: 17.0

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analys
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		23.8	µg/Kg-dry	1	9/17/99 11:05:18 PM	HP68902B_990915A	RJS
Aroclor 1221	ND		47.5	µg/Kg-dry	1			
Aroclor 1232	ND		23.8	µg/Kg-dry	1			
Aroclor 1242	ND		23.8	µg/Kg-dry	1			
Aroclor 1248	ND		23.8	µg/Kg-dry	1			
Aroclor 1254	ND		23.8	µg/Kg-dry	1			
Aroclor 1260	ND		23.8	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	111.0		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	91.1		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Res

NYS ELAP ID#: 1018

Phone: (716) 685-6000

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-N206-FSO
<b>Lab Order:</b>	9908216	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/24/99 9:31:00 AM
<b>Lab ID:</b>	9908216-02A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		22.9	µg/Kg-dry	1	9/17/99 11:48:00 PM	HP68902B_990915A	
Aroclor 1221	ND		45.8	µg/Kg-dry	1			
Aroclor 1232	ND		22.9	µg/Kg-dry	1			
Aroclor 1242	ND		22.9	µg/Kg-dry	1			
Aroclor 1248	ND		22.9	µg/Kg-dry	1			
Aroclor 1254	ND		22.9	µg/Kg-dry	1			
Aroclor 1260	ND		22.9	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	108.4		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	85.3		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM



# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-N208-MSO

Lab Order: 9908216

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/24/99 10:48:00 AM

Lab ID: 9908216-03A Sample Type: SAMP

Matrix: SOIL

% Moist: 15.5

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		23.3	µg/Kg-dry	1	9/18/99 12:30:38 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		46.7	µg/Kg-dry	1			
Aroclor 1232	ND		23.3	µg/Kg-dry	1			
Aroclor 1242	ND		23.3	µg/Kg-dry	1			
Aroclor 1248	ND		23.3	µg/Kg-dry	1			
Aroclor 1254	ND		23.3	µg/Kg-dry	1			
Aroclor 1260	ND		23.3	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	113.0		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	88.5		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 104

Phone: (716) 685-8000

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W604-CSO
<b>Lab Order:</b>	9908216	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/24/99 3:07:00 PM
<b>Lab ID:</b>	9908216-04A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Anal
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		99.8	µg/Kg-dry	5	9/18/99 1:13:14 AM	HP68902B_990915A	
Aroclor 1221	ND		200	µg/Kg-dry	5			
Aroclor 1232	ND		99.8	µg/Kg-dry	5			
Aroclor 1242	646		99.8	µg/Kg-dry	5			
Aroclor 1248	ND		99.8	µg/Kg-dry	5			
Aroclor 1254	219		99.8	µg/Kg-dry	5			
Aroclor 1260	ND		99.8	µg/Kg-dry	5			
Surr: Decachlorobiphenyl	136.5	*	52-115	%REC	5			
Surr: Tetrachloro-m-xylene	91.3		39-125	%REC	5			

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limit
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-W608-J

Lab Order: 9908216

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/24/99 4:03:00 PM

Lab ID: 9908216-05A Sample Type: SAMP

Matrix: SOIL

% Moist: 18.00

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		23.9	µg/Kg-dry	1	9/18/99 1:55:49 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		47.8	µg/Kg-dry	1			
Aroclor 1232	ND		23.9	µg/Kg-dry	1			
Aroclor 1242	ND		23.9	µg/Kg-dry	1			
Aroclor 1248	ND		23.9	µg/Kg-dry	1			
Aroclor 1254	ND		23.9	µg/Kg-dry	1			
Aroclor 1260	ND		23.9	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	108.9		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	89.5		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1 30  
Phone: (716) 685-8080

CLIENT: E and E Buffalo Office Client Sample ID: LR-MW6D-PSD  
 Lab Order: 9908216 Alt. Client ID:  
 Project: Luzerne Road Collection Date: 8/24/99 11:24:00 AM  
 Lab ID: 9908216-06A Sample Type: SAMP Matrix: SOIL % Moist: 8

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Approval
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**PCB ANALYSIS BY METHOD 8082**  
**1\_8082\_3550B\_S**

Aroclor 1016	ND		23.7	µg/Kg-dry	1	9/18/99 2:38:27 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		47.3	µg/Kg-dry	1			
Aroclor 1232	ND		23.7	µg/Kg-dry	1			
Aroclor 1242	ND		23.7	µg/Kg-dry	1			
Aroclor 1248	ND		23.7	µg/Kg-dry	1			
Aroclor 1254	ND		23.7	µg/Kg-dry	1			
Aroclor 1260	ND		23.7	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	99.7		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	83.0		39-125	%REC	1			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M -Matrix Spike recovery outside limits  
 J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
 H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-N101-LSD

Lab Order: 9908216

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/23/99 11:51:00 AM

Lab ID: 9908216-07A Sample Type: SAMP

Matrix: SOIL

% Moist: 17.8

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		23.6	µg/Kg-dry	1	9/18/99 3:21:07 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		47.2	µg/Kg-dry	1			
Aroclor 1232	ND		23.6	µg/Kg-dry	1			
Aroclor 1242	133		23.6	µg/Kg-dry	1			
Aroclor 1248	ND		23.6	µg/Kg-dry	1			
Aroclor 1254	ND		23.6	µg/Kg-dry	1			
Aroclor 1260	ND		23.6	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	110.5		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	88.8		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1 36

Phone: (716) 685-8080

<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-N107-FSD
<b>Lab Order:</b> 9908216	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 8/23/99 3:49:00 PM
<b>Lab ID:</b> 9908216-08A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b> 3.3

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		21.7	µg/Kg-dry	1	9/18/99 4:03:42 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		43.4	µg/Kg-dry	1			
Aroclor 1232	ND		21.7	µg/Kg-dry	1			
Aroclor 1242	ND		21.7	µg/Kg-dry	1			
Aroclor 1248	ND		21.7	µg/Kg-dry	1			
Aroclor 1254	ND		21.7	µg/Kg-dry	1			
Aroclor 1260	ND		21.7	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	105.7		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	89.4		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-N202-SD

Lab Order: 9908216

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/23/99 5:24:00 PM

Lab ID: 9908216-09A Sample Type: SAMP

Matrix: SOIL

% Moist: 17.10

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		23.9	µg/Kg-dry	1	9/18/99 4:46:17 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		47.8	µg/Kg-dry	1			
Aroclor 1232	ND		23.9	µg/Kg-dry	1			
Aroclor 1242	ND		23.9	µg/Kg-dry	1			
Aroclor 1248	ND		23.9	µg/Kg-dry	1			
Aroclor 1254	ND		23.9	µg/Kg-dry	1			
Aroclor 1260	ND		23.9	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	106.9		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	85.7		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

052

# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Project: Luzerne Road

Lab Order: 9908229

## Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

### PCB

Samples were extracted 15 days after NYSDEC hold time had expired due to a scheduling error. The laboratory proceeded with the analysis as per your instructions. PCB are stable in soils and results reported should be considered valid.

The column used for analysis was an RTX-5, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

Samples LR-W209-HSD and LR-W312-KSD required analysis at secondary dilutions due to the levels of Aroclor 1242 and 1254 present. Surrogate and matrix spike compounds were diluted out.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors know to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
October 18, 1999



# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

CLIENT: E and E Buffalo Office Client Sample ID: LR-W209-HSD  
 Lab Order: 9908229 Alt. Client ID:  
 Project: Luzerne Road Collection Date: 8/25/99 9:53:00 AM  
 Lab ID: 9908229-01A Sample Type: SAMP Matrix: SOIL % Moist: 22.5

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### PCB ANALYSIS BY METHOD 8082

#### 1\_8082\_3550B\_S

Aroclor 1016	ND		2530	µg/Kg-dry	100	9/27/99 10:36:20 AM	HP68902A_990924A	RJS
Aroclor 1221	ND		5060	µg/Kg-dry	100			
Aroclor 1232	ND		2530	µg/Kg-dry	100			
Aroclor 1242	6110		2530	µg/Kg-dry	100			
Aroclor 1248	ND		2530	µg/Kg-dry	100			
Aroclor 1254	5560		2530	µg/Kg-dry	100			
Aroclor 1260	ND		2530	µg/Kg-dry	100			
Surr: Decachlorobiphenyl	<del>467.4</del>	DL	52-115	%REC	100			
Surr: Tetrachloro-m-xylene	<del>104.9</del>	DL	39-125	%REC	100			

*9/27/99*

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M -Matrix Spike recovery outside limits  
 J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
 H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Res

NYS ELAP ID#: 1048

Phone: (716) 685-3888

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W211-HSD
<b>Lab Order:</b>	9908229	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/25/99 11:39:00 AM
<b>Lab ID:</b>	9908229-02A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		20.8	µg/Kg-dry	1	9/26/99 6:56:17 AM	HP68902A_990924A	
Aroclor 1221	ND		41.7	µg/Kg-dry	1			
Aroclor 1232	ND		20.8	µg/Kg-dry	1			
Aroclor 1242	30.6		20.8	µg/Kg-dry	1			
Aroclor 1248	ND		20.8	µg/Kg-dry	1			
Aroclor 1254	18.5	J	20.8	µg/Kg-dry	1			
Aroclor 1260	ND		20.8	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	98.4		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	90.7		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-W312-KSD

Lab Order: 9908229

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/25/99 3:17:00 PM

Lab ID: 9908229-03A Sample Type: SAMP

Matrix: SOIL

% Moist: 2.7

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		10100	µg/Kg-dry	500	9/27/99 12:44:15 PM	HP68902A_990924A	RJS
Aroclor 1221	ND		20200	µg/Kg-dry	500			
Aroclor 1232	ND		10100	µg/Kg-dry	500			
Aroclor 1242	23100		10100	µg/Kg-dry	500			
Aroclor 1248	ND		10100	µg/Kg-dry	500			
Aroclor 1254	9660	J	10100	µg/Kg-dry	500			
Aroclor 1260	ND		10100	µg/Kg-dry	500			
Surr: Decachlorobiphenyl	<del>209.2</del>		52-115	%REC	500			
Surr: Tetrachloro-m-xylene	<del>164.0</del>		39-125	%REC	500			

*2 161499*

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

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# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Res

NYS ELAP ID#: 1248  
Phone: (716) 685-508

<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-W412-JSD
<b>Lab Order:</b> 9908229	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 8/25/99 4:31:00 PM
<b>Lab ID:</b> 9908229-04A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b> 7

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
<b>PCB ANALYSIS BY METHOD 8082</b>								
<b>1_8082_3550B_S</b>								
Aroclor 1016	ND		23.8	µg/Kg-dry	1	9/26/99 8:21:35 AM	HP68902A_990924A	
Aroclor 1221	ND		47.5	µg/Kg-dry	1			
Aroclor 1232	ND		23.8	µg/Kg-dry	1			
Aroclor 1242	34.7		23.8	µg/Kg-dry	1			
Aroclor 1248	ND		23.8	µg/Kg-dry	1			
Aroclor 1254	14.2	J	23.8	µg/Kg-dry	1			
Aroclor 1260	ND		23.8	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	99.3		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	96.1		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Project: Luzerne Rd.

Lab Order: 9908178

## Laboratory Results

NYS ELAP ID#: 10486

### CASE NARRATIVE

#### Volatiles

A DB624 column from J&W that is 30 m long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1 packing, approximately 20 cm of Tenax, and approximately 10 cm of silica gel.

The pH of sample LR-T102-AWT was determined to be approximately 6 s.u.

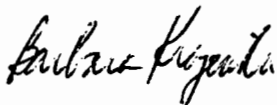
#### PCB

The column used for analysis was an RTX-35, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

A portion of the laboratory control sample was lost during concentration resulting in low recoveries. Recoveries were acceptable for the associated sample matrix spike/spike duplicate analysis. No corrective action was taken.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 30, 1999

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Res

NYS ELAP ID#: 1048

Phone: (716) 685-3080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-E204-FSD

Lab Order: 9908178

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/18/99 3:44:00 PM

Lab ID: 9908178-02A Sample Type: SAMP

Matrix: SOIL

% Moist: 7

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		20.1	µg/Kg-dry	1	9/9/99 5:55:17 PM	HP58901A_990907A	
Aroclor 1221	ND		40.2	µg/Kg-dry	1			
Aroclor 1232	ND		20.1	µg/Kg-dry	1			
Aroclor 1242	ND		20.1	µg/Kg-dry	1			
Aroclor 1248	ND		20.1	µg/Kg-dry	1			
Aroclor 1254	ND		20.1	µg/Kg-dry	1			
Aroclor 1260	ND		20.1	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	95.5		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	76.4		39-125	%REC	1			

#### Definitions:

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below Reporting limits  
 B - Analyte detected in the associated Method Blank  
 H - Value exceeds Maximum Contaminant Level

\* - Recovery outside limits  
 R - RPD outside recovery limits  
 E - Value above quantitation range  
 Surr - Denotes Surrogate Compound

M - Matrix Spike recovery outside limits  
 Q - Qualifier  
 Limit - Reporting Limit

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10480

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-E206-KSD

Lab Order: 9908178

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/18/99 5:16:00 PM

Lab ID: 9908178-03A Sample Type: SAMP

Matrix: SOIL

% Moist: 7.3

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		19.9	µg/Kg-dry	1	9/11/99 2:39:44 AM	HP58901A_990910B	GSR
Aroclor 1221	ND		39.8	µg/Kg-dry	1			
Aroclor 1232	ND		19.9	µg/Kg-dry	1			
Aroclor 1242	ND		19.9	µg/Kg-dry	1			
Aroclor 1248	ND		19.9	µg/Kg-dry	1			
Aroclor 1254	44.6		19.9	µg/Kg-dry	1			
Aroclor 1260	11.0	J	19.9	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	95.6		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	92.9		39-125	%REC	1			

**Definitions:**

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M -Matrix Spike recovery outside limits

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

H - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

# Laboratory Res

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 104  
Phone: (716) 683-0000

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-E109-JSD
<b>Lab Order:</b>	9908178	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/19/99 4:53:00 PM
<b>Lab ID:</b>	9908178-04A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	6

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		19.7	µg/Kg-dry	1	9/9/99 7:17:20 PM	HP58901A_990907A	
Aroclor 1221	ND		39.4	µg/Kg-dry	1			
Aroclor 1232	ND		19.7	µg/Kg-dry	1			
Aroclor 1242	ND		19.7	µg/Kg-dry	1			
Aroclor 1248	ND		19.7	µg/Kg-dry	1			
Aroclor 1254	ND		19.7	µg/Kg-dry	1			
Aroclor 1260	ND		19.7	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	94.3		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	77.0		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM



# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10480

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-E303-ISD

Lab Order: 9908178

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/19/99 10:57:00 AM

Lab ID: 9908178-05A Sample Type: SAMP

Matrix: SOIL

% Moist: 15.9

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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### PCB ANALYSIS BY METHOD 8082

#### 1\_8082\_3550B\_S

Aroclor 1016	ND		20.6	µg/Kg-dry	1	9/9/99 7:58:21 PM	HP58901A_990907A	RN
Aroclor 1221	ND		41.1	µg/Kg-dry	1			
Aroclor 1232	ND		20.6	µg/Kg-dry	1			
Aroclor 1242	20.0	J	20.6	µg/Kg-dry	1			
Aroclor 1248	ND		20.6	µg/Kg-dry	1			
Aroclor 1254	27.2		20.6	µg/Kg-dry	1			
Aroclor 1260	ND		20.6	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	92.5		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	78.0		39-125	%REC	1			

Definitions:			
ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits	
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier	
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit	
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound		

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Res

NYS ELAP ID#: 1048  
Phone: (716) 688-0808

<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-E105-MSD
<b>Lab Order:</b> 9908178	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 8/19/99 2:50:00 PM
<b>Lab ID:</b> 9908178-06A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b> 8

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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**PCB ANALYSIS BY METHOD 8082**  
**1\_8082\_3550B\_S**

Aroclor 1016	ND		21.6	µg/Kg-dry	1	9/9/99 8:39:23 PM	HP58901A_990907A	N
Aroclor 1221	ND		43.3	µg/Kg-dry	1			
Aroclor 1232	ND		21.6	µg/Kg-dry	1			
Aroclor 1242	ND		21.6	µg/Kg-dry	1			
Aroclor 1248	ND		21.6	µg/Kg-dry	1			
Aroclor 1254	ND		21.6	µg/Kg-dry	1			
Aroclor 1260	ND		21.6	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	92.5		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	74.8		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-E208-MSD

Lab Order: 9908178

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/20/99 8:25:00 AM

Lab ID: 9908178-08A Sample Type: SAMP

Matrix: SOIL

% Moist: 19.20

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		22.8	µg/Kg-dry	1	9/9/99 9:20:17 PM	HP58901A_990907A	RN
Aroclor 1221	ND		45.7	µg/Kg-dry	1			
Aroclor 1232	ND		22.8	µg/Kg-dry	1			
Aroclor 1242	136		22.8	µg/Kg-dry	1			
Aroclor 1248	ND		22.8	µg/Kg-dry	1			
Aroclor 1254	ND		22.8	µg/Kg-dry	1			
Aroclor 1260	ND		22.8	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	96.9		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	81.7		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1048

Phone: (716) 685-8888

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-S408-NSD
<b>Lab Order:</b>	9908178	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/20/99 12:07:00 PM
<b>Lab ID:</b>	9908178-09A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyte
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		22.7	µg/Kg-dry	1	9/9/99 10:01:18 PM	HP58901A_990907A	
Aroclor 1221	ND		45.3	µg/Kg-dry	1			
Aroclor 1232	ND		22.7	µg/Kg-dry	1			
Aroclor 1242	ND		22.7	µg/Kg-dry	1			
Aroclor 1248	ND		22.7	µg/Kg-dry	1			
Aroclor 1254	5.60	J	22.7	µg/Kg-dry	1			
Aroclor 1260	ND		22.7	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	92.4		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	75.0		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

## Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Project: Luzerne Rd.

Lab Order: 9908081

## Laboratory Results

NYS ELAP ID#: 10486

### CASE NARRATIVE

#### PCB

The column used for analysis was an RTX-35, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

All samples except LR-W101-ASD, LR-W111-FSD, and LR-W309-JSD required analysis at secondary dilutions due to the level of Aroclors present. Surrogate compounds were diluted out of samples LR-W208-GSD, LR-W305-ASD, and LR-W408-FSD. High surrogate recoveries for sample LW-W105-GSD and LR-W404-GSD can be attributed to matrix interferences.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 30, 1999

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: \_\_\_\_\_

Phone: (716) 685-8000

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W101-ASD
<b>Lab Order:</b>	9908081	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/9/99 11:34:00 AM
<b>Lab ID:</b>	9908081-01A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		20.3	µg/Kg-dry	1	8/23/99 2:53:27 PM	HP58901B_990823A
Aroclor 1221	ND		40.5	µg/Kg-dry	1		
Aroclor 1232	ND		20.3	µg/Kg-dry	1		
Aroclor 1242	71.6		20.3	µg/Kg-dry	1		
Aroclor 1248	ND		20.3	µg/Kg-dry	1		
Aroclor 1254	31.4		20.3	µg/Kg-dry	1		
Aroclor 1260	ND		20.3	µg/Kg-dry	1		
Surr: Decachlorobiphenyl	93.3		52-115	%REC	1		
Surr: Tetrachloro-m-xylene	104.9		39-125	%REC	1		

**Definitions:**

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M -Matrix Spike recovery outside limit

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

H - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM



# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 4  
Phone: (716) 685-80

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W107-GSD
<b>Lab Order:</b>	9908081	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/9/99 5:42:00 PM
<b>Lab ID:</b>	9908081-03A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	4

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID
<b>PCB ANALYSIS BY METHOD 8082</b>							
<b>1_8082_3550B_S</b>							
Aroclor 1016	ND		103	µg/Kg-dry	5	8/23/99 6:59:20 PM	HP58901B_990823A
Aroclor 1221	ND		205	µg/Kg-dry	5		
Aroclor 1232	ND		103	µg/Kg-dry	5		
Aroclor 1242	178		103	µg/Kg-dry	5		
Aroclor 1248	ND		103	µg/Kg-dry	5		
Aroclor 1254	452		103	µg/Kg-dry	5		
Aroclor 1260	ND		103	µg/Kg-dry	5		
Surr: Decachlorobiphenyl	103.9		52-115	%REC	5		
Surr: Tetrachloro-m-xylene	105.9		39-125	%REC	5		

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limit
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM





# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 6

Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W111-FSD
<b>Lab Order:</b>	9908081	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/10/99 9:04:00 AM
<b>Lab ID:</b>	9908081-05A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	5.4

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Al	st
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		20.8	µg/Kg-dry	1	8/23/99 8:21:12 PM	HP58901B_990823A		RN
Aroclor 1221	ND		41.7	µg/Kg-dry	1				
Aroclor 1232	ND		20.8	µg/Kg-dry	1				
Aroclor 1242	16.0	J	20.8	µg/Kg-dry	1				
Aroclor 1248	ND		20.8	µg/Kg-dry	1				
Aroclor 1254	8.60	J	20.8	µg/Kg-dry	1				
Aroclor 1260	ND		20.8	µg/Kg-dry	1				
Surr: Decachlorobiphenyl	89.3		52-115	%REC	1				
Surr: Tetrachloro-m-xylene	100.6		39-125	%REC	1				

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM



# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 36  
Phone: (716) 685-8080

<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-W305-ASD
<b>Lab Order:</b> 9908081	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 8/11/99 7:31:00 AM
<b>Lab ID:</b> 9908081-07A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b> 7.6

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	A	st
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**PCB ANALYSIS BY METHOD 8082**  
**1\_8082\_3550B\_S**

Aroclor 1016	ND		21600	µg/Kg-dry	1000	8/23/99 9:43:07 PM	HP58901B_990823A		RN
Aroclor 1221	ND		43200	µg/Kg-dry	1000				
Aroclor 1232	ND		21600	µg/Kg-dry	1000				
Aroclor 1242	28200		21600	µg/Kg-dry	1000				
Aroclor 1248	ND		21600	µg/Kg-dry	1000				
Aroclor 1254	80100		21600	µg/Kg-dry	1000				
Aroclor 1260	ND		21600	µg/Kg-dry	1000				
Surr: Decachlorobiphenyl	754.6	*	52-115	%REC	1000				
Surr: Tetrachloro-m-xylene	00.0	*	39-125	%REC	1000				

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 1048

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-W309-JSD

Lab Order: 9908081

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/11/99 9:11:00 AM

Lab ID: 9908081-08A Sample Type: SAMP

Matrix: SOIL

% Moist: 19.0

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyte
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		24.8	µg/Kg-dry	1	8/23/99 10:24:02 PM	HP58901B_990823A	RN
Aroclor 1221	ND		49.7	µg/Kg-dry	1			
Aroclor 1232	ND		24.8	µg/Kg-dry	1			
Aroclor 1242	68.0		24.8	µg/Kg-dry	1			
Aroclor 1248	ND		24.8	µg/Kg-dry	1			
Aroclor 1254	12.0	J	24.8	µg/Kg-dry	1			
Aroclor 1260	ND		24.8	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	88.9		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	97.2		39-125	%REC	1			

#### Definitions:

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M - Matrix Spike recovery outside limits

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

H - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1 6

Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W408-FSD
<b>Lab Order:</b>	9908081	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/11/99 3:04:00 PM
<b>Lab ID:</b>	9908081-09A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	3.0

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Ar	st
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		54300	µg/Kg-dry	2500	8/24/99 8:22:42 AM	HP58901B_990823A		RN
Aroclor 1221	ND		109000	µg/Kg-dry	2500				
Aroclor 1232	ND		54300	µg/Kg-dry	2500				
Aroclor 1242	452000		54300	µg/Kg-dry	2500				
Aroclor 1248	ND		54300	µg/Kg-dry	2500				
Aroclor 1254	41000	J	54300	µg/Kg-dry	2500				
Aroclor 1260	ND		54300	µg/Kg-dry	2500				
Surr: Decachlorobiphenyl	00.0	*	52-115	%REC	2500				
Surr: Tetrachloro-m-xylene	00.0	*	39-125	%REC	2500				

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

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# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1048

Phone: (716) 685-808

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W404-GSD
<b>Lab Order:</b>	9908081	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/11/99 11:45:00 AM
<b>Lab ID:</b>	9908081-10A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	8.

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
<b>PCB ANALYSIS BY METHOD 8082</b>								
<b>1_8082_3550B_S</b>								
Aroclor 1016	ND		1080	µg/Kg-dry	50	8/23/99 11:45:50 PM	HP58901B_990823A	RN
Aroclor 1221	ND		2160	µg/Kg-dry	50			
Aroclor 1232	ND		1080	µg/Kg-dry	50			
Aroclor 1242	2350		1080	µg/Kg-dry	50			
Aroclor 1248	ND		1080	µg/Kg-dry	50			
Aroclor 1254	2560		1080	µg/Kg-dry	50			
Aroclor 1260	ND		1080	µg/Kg-dry	50			
Surr: Decachlorobiphenyl	137.2	*	52-115	%REC	50			
Surr: Tetrachloro-m-xylene	113.7		39-125	%REC	50			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr Denotes Surrogate Compound	

# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Rd.

**Lab Order:** 9908246

## Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

### PCB

The column used for analysis was an RTX-35, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

Severe matrix interferences present in all samples except LR-W311-HSD adversely affected recovery of the surrogate tetrachloro-m-xylene. Recovery of the surrogate decachlorobiphenyl was acceptable for all samples except LR-W612-HSD.

Recoveries were low for the matrix spike analysis of sample LR-LR-MW15-FSD but within acceptable limits for the matrix spike duplicate resulting in high RPD values.

Recovery of Aroclor 1016 was slightly low for the laboratory control sample. Recovery of Aroclor 1260 was within acceptable limits.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 30, 1999

002



# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-W311-HSD

Lab Order: 9908246

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/26/99 8:44:00 AM

Lab ID: 9908246-01A Sample Type: SAMP

Matrix: SOIL

% Moist: 6.4

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		21.2	µg/Kg-dry	1	9/18/99 9:44:41 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		42.4	µg/Kg-dry	1			
Aroclor 1232	ND		21.2	µg/Kg-dry	1			
Aroclor 1242	41.2		21.2	µg/Kg-dry	1			
Aroclor 1248	ND		21.2	µg/Kg-dry	1			
Aroclor 1254	14.6	J	21.2	µg/Kg-dry	1			
Aroclor 1260	ND		21.2	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	86.9		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	59.8		39-125	%REC	1			

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

022

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 06

Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W612-HSD
<b>Lab Order:</b>	9908246	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/26/99 10:07:00 AM
<b>Lab ID:</b>	9908246-02A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	10.5

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
<b>PCB ANALYSIS BY METHOD 8082</b>								
<b>1_8082_3550B_S</b>								
Aroclor 1016	ND		22.2	µg/Kg-dry	1	9/18/99 10:27:19 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		44.3	µg/Kg-dry	1			
Aroclor 1232	ND		22.2	µg/Kg-dry	1			
Aroclor 1242	ND		22.2	µg/Kg-dry	1			
Aroclor 1248	ND		22.2	µg/Kg-dry	1			
Aroclor 1254	ND		22.2	µg/Kg-dry	1			
Aroclor 1260	ND		22.2	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	49.2	*	52-115	%REC	1			
Surr: Tetrachloro-m-xylene	18.3	*	39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Result

NYS ELAP ID#: 1048  
Phone: (716) 685-808

CLIENT: E and E Buffalo Office      Client Sample ID: LR-W612-HSD-D  
 Lab Order: 9908246      Alt. Client ID:  
 Project: Luzerne Road      Collection Date: 08/26/1999 10:07:00 AM  
 Lab ID: 9908246-03A      Sample Type: SAMP      Matrix: SOIL      % Moist: 10.

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
<b>PCB ANALYSIS BY METHOD 8082</b>								
<b>1_8082_3550B_S</b>								
Aroclor 1016	ND		22.2	µg/Kg-dry	1	09/18/1999 11:09:57 AM HP68902B_990915A		RJS
Aroclor 1221	ND		44.4	µg/Kg-dry	1			
Aroclor 1232	ND		22.2	µg/Kg-dry	1			
Aroclor 1242	ND		22.2	µg/Kg-dry	1			
Aroclor 1248	ND		22.2	µg/Kg-dry	1			
Aroclor 1254	ND		22.2	µg/Kg-dry	1			
Aroclor 1260	ND		22.2	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	55.0		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	15.6		39-125	%REC	1			

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

# Ecology and Environment, Inc.

# Laboratory Results

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: \_\_\_\_\_

Phone: (716) 685-8000

<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-W410-DSO
<b>Lab Order:</b> 9908246	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 8/26/99 2:39:00 PM
<b>Lab ID:</b> 9908246-04A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b> 1

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		22.2	µg/Kg-dry	1	9/18/99 11:52:33 AM	HP68902B_990915A
Aroclor 1221	ND		44.5	µg/Kg-dry	1		
Aroclor 1232	ND		22.2	µg/Kg-dry	1		
Aroclor 1242	ND		22.2	µg/Kg-dry	1		
Aroclor 1248	ND		22.2	µg/Kg-dry	1		
Aroclor 1254	ND		22.2	µg/Kg-dry	1		
Aroclor 1260	ND		22.2	µg/Kg-dry	1		
Surr: Decachlorobiphenyl	55.8		52-115	%REC	1		
Surr: Tetrachloro-m-xylene	28.1	*	39-125	%REC	1		

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside lim
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-W609-ISD
<b>Lab Order:</b> 9908246	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 8/26/99 4:11:00 PM
<b>Lab ID:</b> 9908246-05A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b> 6.6

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analys
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		20.9	µg/Kg-dry	1	9/18/99 12:35:08 PM	HP68902B_990915A	RJS
Aroclor 1221	ND		41.9	µg/Kg-dry	1			
Aroclor 1232	ND		20.9	µg/Kg-dry	1			
Aroclor 1242	ND		20.9	µg/Kg-dry	1			
Aroclor 1248	ND		20.9	µg/Kg-dry	1			
Aroclor 1254	ND		20.9	µg/Kg-dry	1			
Aroclor 1260	ND		20.9	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	52.4		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	07.6	*	39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside lim
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1

Phone: (716) 685-808

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W511-HSD
<b>Lab Order:</b>	9908246	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/26/99 4:52:00 PM
<b>Lab ID:</b>	9908246-06A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	12.1

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	A
<b>PCB ANALYSIS BY METHOD 8082</b>								
<b>1_8082_3550B_S</b>								
Aroclor 1016	ND		22.3	µg/Kg-dry	1	9/18/99 1:17:47 PM	HP68902B_990915A	RJS
Aroclor 1221	ND		44.7	µg/Kg-dry	1			
Aroclor 1232	ND		22.3	µg/Kg-dry	1			
Aroclor 1242	ND		22.3	µg/Kg-dry	1			
Aroclor 1248	ND		22.3	µg/Kg-dry	1			
Aroclor 1254	ND		22.3	µg/Kg-dry	1			
Aroclor 1260	ND		22.3	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	93.1		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	58.6		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-MWIS-FSD

Lab Order: 9908246

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/26/99 3:45:00 PM

Lab ID: 9908246-07A Sample Type: SAMP

Matrix: SOIL

% Moist: 13.30

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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## PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		22.7	µg/Kg-dry	1	9/18/99 2:00:26 PM	HP68902B_990915A	RJS
Aroclor 1221	ND		45.4	µg/Kg-dry	1			
Aroclor 1232	ND		22.7	µg/Kg-dry	1			
Aroclor 1242	69.2		22.7	µg/Kg-dry	1			
Aroclor 1248	ND		22.7	µg/Kg-dry	1			
Aroclor 1254	ND		22.7	µg/Kg-dry	1			
Aroclor 1260	ND		22.7	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	71.2		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	36.4	*	39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Rd.

**Lab Order:** 9908166

# Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

PCB

The column used for analysis was an RTX-35, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

Recovery of the surrogate decachlorobiphenyl was high for samples LR-S503-NSD, LR-S503-NSD-D, and LR-S204-ASD. Recovery of the second surrogate tetrachloro-m-xylene was acceptable for all samples. Matrix interference is suspected.

Samples LR-S503-NSD, LR-S503-NSD-D, LR-S204-ASD required analysis at a secondary dilution due to the level of Aroclors present

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 30, 1999



# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1048

Phone: (716) 685-808

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-S501-LSD
<b>Lab Order:</b>	9908166	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/17/99 8:38:00 AM
<b>Lab ID:</b>	9908166-01A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	15.0

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		23.6	µg/Kg-dry	1	9/9/99 6:58:44 AM	HP58901A_990907A	RN
Aroclor 1221	ND		47.1	µg/Kg-dry	1			
Aroclor 1232	ND		23.6	µg/Kg-dry	1			
Aroclor 1242	ND		23.6	µg/Kg-dry	1			
Aroclor 1248	ND		23.6	µg/Kg-dry	1			
Aroclor 1254	ND		23.6	µg/Kg-dry	1			
Aroclor 1260	ND		23.6	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	89.5		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	67.2		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1008

Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-S503-NSD
<b>Lab Order:</b>	9908166	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/16/99 10:13:00 AM
<b>Lab ID:</b>	9908166-02A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Apprv
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		462	µg/Kg-dry	20	9/10/99 11:55:53 PM	HP58901A_990910B	
Aroclor 1221	ND		924	µg/Kg-dry	20			
Aroclor 1232	ND		462	µg/Kg-dry	20			
Aroclor 1242	ND		462	µg/Kg-dry	20			
Aroclor 1248	ND		462	µg/Kg-dry	20			
Aroclor 1254	2170		462	µg/Kg-dry	20			
Aroclor 1260	430	J	462	µg/Kg-dry	20			
Surr: Decachlorobiphenyl	158.0	*	52-115	%REC	20			
Surr: Tetrachloro-m-xylene	108.0		39-125	%REC	20			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-S503-NSD-D

Lab Order: 9908166

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/16/99 10:15:00 AM

Lab ID: 9908166-03A Sample Type: SAMP

Matrix: SOIL

% Moist: 14.7

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analys
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		469	µg/Kg-dry	20	9/11/99 12:36:47 AM	HP58901A_990910B	GSR
Aroclor 1221	ND		938	µg/Kg-dry	20			
Aroclor 1232	ND		469	µg/Kg-dry	20			
Aroclor 1242	ND		469	µg/Kg-dry	20			
Aroclor 1248	ND		469	µg/Kg-dry	20			
Aroclor 1254	2090		469	µg/Kg-dry	20			
Aroclor 1260	450	J	469	µg/Kg-dry	20			
Surr: Decachlorobiphenyl	144.4	*	52-115	%REC	20			
Surr: Tetrachloro-m-xylene	102.0		39-125	%REC	20			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 18

Phone: (716) 685-8081

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-S107-FSD
<b>Lab Order:</b>	9908166	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/16/99 4:50:00 PM
<b>Lab ID:</b>	9908166-04A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	7

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	A	ly
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		21.5	µg/Kg-dry	1	9/9/99 10:23:32 AM	HP58901A_990907A		RN
Aroclor 1221	ND		43.0	µg/Kg-dry	1				
Aroclor 1232	ND		21.5	µg/Kg-dry	1				
Aroclor 1242	ND		21.5	µg/Kg-dry	1				
Aroclor 1248	ND		21.5	µg/Kg-dry	1				
Aroclor 1254	ND		21.5	µg/Kg-dry	1				
Aroclor 1260	ND		21.5	µg/Kg-dry	1				
Surr: Decachlorobiphenyl	90.6		52-115	%REC	1				
Surr: Tetrachloro-m-xylene	71.8		39-125	%REC	1				

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM



# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1 30

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-S604-NSD

Lab Order: 9908166

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/17/99 4:49:00 PM

Lab ID: 9908166-06A Sample Type: SAMP

Matrix: SOIL

% Moist: 2.2

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Ar	Pr	Pr
<b>PCB ANALYSIS BY METHOD 8082</b>										
<b>1_8082_3550B_S</b>										
Aroclor 1016	ND		24.3	µg/Kg-dry	1	9/11/99 1:17:48 AM	HP58901A_990910B			CSR
Aroclor 1221	ND		48.6	µg/Kg-dry	1					
Aroclor 1232	ND		24.3	µg/Kg-dry	1					
Aroclor 1242	ND		24.3	µg/Kg-dry	1					
Aroclor 1248	ND		24.3	µg/Kg-dry	1					
Aroclor 1254	7.20	J	24.3	µg/Kg-dry	1					
Aroclor 1260	ND		24.3	µg/Kg-dry	1					
Surr: Decachlorobiphenyl	91.0		52-115	%REC	1					
Surr: Tetrachloro-m-xylene	86.3		39-125	%REC	1					

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office **Client Sample ID:** LR-S208-JSD  
**Lab Order:** 9908166 **Alt. Client ID:**  
**Project:** Luzerne Road **Collection Date:** 8/18/99 2:05:00 PM  
**Lab ID:** 9908166-07A **Sample Type:** SAMP **Matrix:** SOIL **% Moist:** 13.8

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**  
**1\_8082\_3550B\_S**

Aroclor 1016	ND		22.6	µg/Kg-dry	1	9/9/99 12:26:56 PM	HP58901A_990907A	RN
Aroclor 1221	ND		45.2	µg/Kg-dry	1			
Aroclor 1232	ND		22.6	µg/Kg-dry	1			
Aroclor 1242	ND		22.6	µg/Kg-dry	1			
Aroclor 1248	ND		22.6	µg/Kg-dry	1			
Aroclor 1254	ND		22.6	µg/Kg-dry	1			
Aroclor 1260	ND		22.6	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	87.1		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	74.0		39-125	%REC	1			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M -Matrix Spike recovery outside limits  
 J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
 H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 1 5

Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-S706-0SD
<b>Lab Order:</b>	9908166	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/17/99 7:11:00 PM
<b>Lab ID:</b>	9908166-08A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	11.1

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		23.8	µg/Kg-dry	1	9/11/99 1:58:46 AM	HP58901A_990910B	GSR
Aroclor 1221	ND		47.6	µg/Kg-dry	1			
Aroclor 1232	ND		23.8	µg/Kg-dry	1			
Aroclor 1242	ND		23.8	µg/Kg-dry	1			
Aroclor 1248	ND		23.8	µg/Kg-dry	1			
Aroclor 1254	12.0	J	23.8	µg/Kg-dry	1			
Aroclor 1260	ND		23.8	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	87.6		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	85.4		39-125	%REC	1			

**Definitions:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below Reporting limits

B - Analyte detected in the associated Method Blank

H - Value exceeds Maximum Contaminant Level

\* - Recovery outside limits

R - RPD outside recovery limits

E - Value above quantitation range

Surr - Denotes Surrogate Compound

M -Matrix Spike recovery outside limits

Q - Qualifier

Limit - Reporting Limit

LIMS Version #: 3.1.1.0Dev - 9/11/99 10:00:00 AM



**Ecology and Environment, Inc.**

**Analytical Services Center**

4493 Walden Avenue  
Lancaster, New York 14086

**Laboratory Results**

NYS ELAP ID#: 10480  
Phone: (716) 685-8080

CLIENT: E and E Buffalo Office Client Sample ID: LR-S705-MSD  
 Lab Order: 9909026 Alt. Client ID:  
 Project: Luzerne Road Collection Date: 9/3/99 9:39:00 AM  
 Lab ID: 9909026-07A Sample Type: SAMP Matrix: SOIL % Moist: 20.4

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analys
<b>PCB ANALYSIS BY METHOD 8082</b>								
<b>1_8082_3550B_S</b>								
Aroclor 1016	ND		22.9	µg/Kg-dry	1	9/16/99 5:49:11 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		45.9	µg/Kg-dry	1			
Aroclor 1232	ND		22.9	µg/Kg-dry	1			
Aroclor 1242	ND		22.9	µg/Kg-dry	1			
Aroclor 1248	ND		22.9	µg/Kg-dry	1			
Aroclor 1254	ND		22.9	µg/Kg-dry	1			
Aroclor 1260	ND		22.9	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	113.8		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	98.7		39-125	%REC	1			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M -Matrix Spike recovery outside limits  
 J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
 H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Rd.

**Lab Order:** 9909026

## Laboratory Result

NYS ELAP ID#: 10486

## CASE NARRATIVE

### PCB

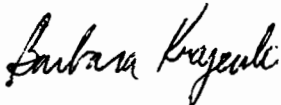
The column used for analysis was an RTX-35, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

Sample LR-SS10-ASO required analysis at a secondary dilution due to the level of Aroclors present. Surrogate compounds were diluted out.

Results of the batch matrix spike/spike duplicate analysis (MS/MSD) are included in this report. The MS/MSD analysis was performed at a 10-fold dilution due to the levels of Aroclors native to the sample. Recovery of the surrogate decachlorobiphenyl was high for both the MS/MSD. Spike recoveries were high for the MSD resulting in high RPD values. Laboratory control sample recoveries were acceptable.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 30, 1999

002

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-SE06-OSD
<b>Lab Order:</b>	9909026	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/2/99 9:18:00 AM
<b>Lab ID:</b>	9909026-01A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	17.

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyt
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		21.7	µg/Kg-dry	1	9/16/99 1:33:34 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		43.3	µg/Kg-dry	1			
Aroclor 1232	ND		21.7	µg/Kg-dry	1			
Aroclor 1242	ND		21.7	µg/Kg-dry	1			
Aroclor 1248	ND		21.7	µg/Kg-dry	1			
Aroclor 1254	26.0		21.7	µg/Kg-dry	1			
Aroclor 1260	ND		21.7	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	106.6		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	91.9		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limit
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM



**Ecology and Environment, Inc.**

**Laboratory Results**

**Analytical Services Center**

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office **Client Sample ID:** LR-SE04-OSD  
**Lab Order:** 9909026 **Alt. Client ID:**  
**Project:** Luzerne Road **Collection Date:** 9/2/99 12:49:00 PM  
**Lab ID:** 9909026-03A **Sample Type:** SAMP **Matrix:** SOIL **% Moist:** 9.8

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		21.1	µg/Kg-dry	1	9/16/99 2:58:46 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		42.2	µg/Kg-dry	1			
Aroclor 1232	ND		21.1	µg/Kg-dry	1			
Aroclor 1242	52.9		21.1	µg/Kg-dry	1			
Aroclor 1248	ND		21.1	µg/Kg-dry	1			
Aroclor 1254	207		21.1	µg/Kg-dry	1			
Aroclor 1260	ND		21.1	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	106.7		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	96.8		39-125	%REC	1			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M -Matrix Spike recovery outside limits  
 J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
 H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 8  
Phone: (716) 685-8088

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-SE03-NSD
<b>Lab Order:</b>	9909026	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/2/99 3:43:00 PM
<b>Lab ID:</b>	9909026-04A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	16.5

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	A	ys
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		22.9	µg/Kg-dry	1	9/16/99 3:41:22 AM	HP68902B_990915A		RJS
Aroclor 1221	ND		45.9	µg/Kg-dry	1				
Aroclor 1232	ND		22.9	µg/Kg-dry	1				
Aroclor 1242	ND		22.9	µg/Kg-dry	1				
Aroclor 1248	ND		22.9	µg/Kg-dry	1				
Aroclor 1254	38.6		22.9	µg/Kg-dry	1				
Aroclor 1260	ND		22.9	µg/Kg-dry	1				
Surr: Decachlorobiphenyl	111.5		52-115	%REC	1				
Surr: Tetrachloro-m-xylene	97.5		39-125	%REC	1				

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-SE02-NSD

Lab Order: 9909026

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/2/99 5:13:00 PM

Lab ID: 9909026-05A Sample Type: SAMP

Matrix: SOIL

% Moist: 4.11

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### PCB ANALYSIS BY METHOD 8082

#### 1\_8082\_3550B\_S

Aroclor 1016	ND		19.9	µg/Kg-dry	1	9/16/99 4:23:58 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		39.7	µg/Kg-dry	1			
Aroclor 1232	ND		19.9	µg/Kg-dry	1			
Aroclor 1242	ND		19.9	µg/Kg-dry	1			
Aroclor 1248	ND		19.9	µg/Kg-dry	1			
Aroclor 1254	ND		19.9	µg/Kg-dry	1			
Aroclor 1260	ND		19.9	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	104.7		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	93.4		39-125	%REC	1			

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 6  
Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-SE01-NSD
<b>Lab Order:</b>	9909026	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/3/99 11:19:00 AM
<b>Lab ID:</b>	9909026-08A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	12.5

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	A	s
<b>PCB ANALYSIS BY METHOD 8082</b>									
<b>1_8082_3550B_S</b>									
Aroclor 1016	ND		21.1	µg/Kg-dry	1	9/16/99 6:31:46 AM	HP68902B_990915A		RJS
Aroclor 1221	ND		42.1	µg/Kg-dry	1				
Aroclor 1232	ND		21.1	µg/Kg-dry	1				
Aroclor 1242	30.1		21.1	µg/Kg-dry	1				
Aroclor 1248	ND		21.1	µg/Kg-dry	1				
Aroclor 1254	123		21.1	µg/Kg-dry	1				
Aroclor 1260	ND		21.1	µg/Kg-dry	1				
Surr: Decachlorobiphenyl	112.1		52-115	%REC	1				
Surr: Tetrachloro-m-xylene	98.5		39-125	%REC	1				

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM





**On-Site Subsurface Soil VOC and TOC Data**



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRS103PSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908148 SAS No.: \_\_\_\_\_ SDG No.: LRS103PSO

Matrix: (soil/water) SOIL Lab Sample ID: 01A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: J1452

Level: (low/med) LOW Date Received: 08/17/99

% Moisture: not dec. 19 Date Analyzed: 08/18/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	12	U
67-64-1	-----Acetone	12	U
75-15-0	-----Carbon Disulfide	12	U
75-35-4	-----1,1-Dichloroethene	12	U
75-34-3	-----1,1-Dichloroethane	12	U
540-59-0	-----1,2-Dichloroethene (total)	12	U
67-66-3	-----Chloroform	12	U
107-06-2	-----1,2-Dichloroethane	12	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	12	U
56-23-5	-----Carbon Tetrachloride	12	U
75-27-4	-----Bromodichloromethane	12	U
78-87-5	-----1,2-Dichloropropane	12	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	12	U
124-48-1	-----Dibromochloromethane	12	U
79-00-5	-----1,1,2-Trichloroethane	12	U
71-43-2	-----Benzene	12	U
10061-02-6	-----trans-1,3-Dichloropropene	12	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-Pentanone	12	U
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	12	U
79-34-5	-----1,1,2,2-Tetrachloroethane	12	U
108-88-3	-----Toluene	12	U
108-90-7	-----Chlorobenzene	12	U
100-41-4	-----Ethylbenzene	12	U
100-42-5	-----Styrene	12	U
1330-20-7	-----Xylene (total)	12	U

FORM I VOA

10/95

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRS103PSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908148

SAS No.:

SDG No.: LRS103PSO

Matrix: (soil/water) SOIL

Lab Sample ID: 01A

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: J1452

Level: (low/med) LOW

Date Received: 08/17/99

% Moisture: not dec. 19

Date Analyzed: 08/18/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRS103PSOMS

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908148

SAS No.:

SDG No.: LRS103PSO

Matrix: (soil/water) SOIL

Lab Sample ID: 01AMS

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: J1453

Level: (low/med) LOW

Date Received: 08/17/99

% Moisture: not dec. 19

Date Analyzed: 08/18/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	11	U
67-64-1	-----Acetone	11	U
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	57	
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	57	
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	58	
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	57	
108-90-7	-----Chlorobenzene	58	
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRW506ASO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908269

SAS No.:

SDG No.: LRW506ASO

Matrix: (soil/water) SOIL

Lab Sample ID: 01A

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: J1650

Level: (low/med) LOW

Date Received: 08/31/99

% Moisture: not dec. 10

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

FORM I VOA

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO

LRW506ISO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908269 SAS No.: \_\_\_\_\_ SDG No.: LRW506ASO

Matrix: (soil/water) SOIL Lab Sample ID: 02A

Sample wt/vol: 5.4 (g/mL) G Lab File ID: J1664

Level: (low/med) LOW Date Received: 08/31/99

% Moisture: not dec. 2 Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	9	U
74-83-9	Bromomethane	9	U
75-01-4	Vinyl Chloride	9	U
75-00-3	Chloroethane	9	U
75-09-2	Methylene Chloride	9	U
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	9	U
75-35-4	1,1-Dichloroethene	9	U
75-34-3	1,1-Dichloroethane	9	U
540-59-0	1,2-Dichloroethene (total)	9	U
67-66-3	Chloroform	9	U
107-06-2	1,2-Dichloroethane	9	U
78-93-3	2-Butanone	9	U
71-55-6	1,1,1-Trichloroethane	9	U
56-23-5	Carbon Tetrachloride	9	U
75-27-4	Bromodichloromethane	9	U
78-87-5	1,2-Dichloropropane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
79-01-6	Trichloroethene	9	U
124-48-1	Dibromochloromethane	9	U
79-00-5	1,1,2-Trichloroethane	9	U
71-43-2	Benzene	9	U
10061-02-6	trans-1,3-Dichloropropene	9	U
75-25-2	Bromoform	9	U
108-10-1	4-Methyl-2-Pentanone	9	U
591-78-6	2-Hexanone	9	U
127-18-4	Tetrachloroethene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
108-88-3	Toluene	9	U
108-90-7	Chlorobenzene	9	U
100-41-4	Ethylbenzene	9	U
100-42-5	Styrene	9	U
1330-20-7	Xylene (total)	9	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRW110HSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909199 SAS No.: \_\_\_\_\_ SDG No.: LR1063

Matrix: (soil/water) SOIL Lab Sample ID: 15A

Sample wt/vol: 5.1 (g/mL) G Lab File ID: J2113

Level: (low/med) LOW Date Received: 09/23/99

% Moisture: not dec. 8 Date Analyzed: 09/28/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRW110HSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909199

SAS No.:

SDG No.: LR1063

Matrix: (soil/water) SOIL

Lab Sample ID: 15A

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: J2113

Level: (low/med) LOW

Date Received: 09/23/99

% Moisture: not dec. 8

Date Analyzed: 09/28/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRE208MSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908217

SAS No.:

SDG No.: LRT103AWT

Matrix: (soil/water) SOIL

Lab Sample ID: 03A

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: J1590

Level: (low/med) LOW

Date Received: 08/25/99

% Moisture: not dec. 15

Date Analyzed: 08/31/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

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1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRE208MSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908217 SAS No.: \_\_\_\_\_ SDG No.: LRT103AWT

Matrix: (soil/water) SOIL Lab Sample ID: 03A

Sample wt/vol: 5.1 (g/mL) G Lab File ID: J1590

Level: (low/med) LOW Date Received: 08/25/99

% Moisture: not dec. 15 Date Analyzed: 08/31/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRN208M

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908217 SAS No.: \_\_\_\_\_ SDG No.: LRT103AWT

Matrix: (soil/water) SOIL Lab Sample ID: 04A

Sample wt/vol: 5.1 (g/mL) G Lab File ID: J1591

Level: (low/med) LOW Date Received: 08/25/99

% Moisture: not dec. 16 Date Analyzed: 08/31/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	13	
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRN208M

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908217

SAS No.:

SDG No.: LRT103AWT

Matrix: (soil/water) SOIL

Lab Sample ID: 04A

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: J1591

Level: (low/med) LOW

Date Received: 08/25/99

% Moisture: not dec. 16

Date Analyzed: 08/31/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown siloxane	28.70	7	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRW602J

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908217 SAS No.: \_\_\_\_\_ SDG No.: LRT103AWT

Matrix: (soil/water) SOIL Lab Sample ID: 05A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: J1592

Level: (low/med) LOW Date Received: 08/25/99

% Moisture: not dec. 14 Date Analyzed: 08/31/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U





1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRW304LSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909012 SAS No.: \_\_\_\_\_ SDG No.: LRT106AWT

Matrix: (soil/water) SOIL Lab Sample ID: 04A

Sample wt/vol: 5.1 (g/mL) G Lab File ID: J1678

Level: (low/med) LOW Date Received: 09/02/99

% Moisture: not dec. 19 Date Analyzed: 09/03/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	12	U
67-64-1	-----Acetone	9	J
75-15-0	-----Carbon Disulfide	12	U
75-35-4	-----1,1-Dichloroethene	12	U
75-34-3	-----1,1-Dichloroethane	12	U
540-59-0	-----1,2-Dichloroethene (total)	12	U
67-66-3	-----Chloroform	12	U
107-06-2	-----1,2-Dichloroethane	12	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	12	U
56-23-5	-----Carbon Tetrachloride	12	U
75-27-4	-----Bromodichloromethane	12	U
78-87-5	-----1,2-Dichloropropane	12	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	12	U
124-48-1	-----Dibromochloromethane	12	U
79-00-5	-----1,1,2-Trichloroethane	12	U
71-43-2	-----Benzene	12	U
10061-02-6	-----trans-1,3-Dichloropropene	12	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-Pentanone	12	U
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	12	U
79-34-5	-----1,1,2,2-Tetrachloroethane	12	U
108-88-3	-----Toluene	12	U
108-90-7	-----Chlorobenzene	12	U
100-41-4	-----Ethylbenzene	12	U
100-42-5	-----Styrene	12	U
1330-20-7	-----Xylene (total)	12	U

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1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE

LRW304LSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909012

SAS No.:

SDG No.: LRT106AWT

Matrix: (soil/water) SOIL

Lab Sample ID: 04A

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: J1678

Level: (low/med) LOW

Date Received: 09/02/99

% Moisture: not dec. 19

Date Analyzed: 09/03/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRW504LSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909012 SAS No.: \_\_\_\_\_ SDG No.: LRT106AWT

Matrix: (soil/water) SOIL Lab Sample ID: 03A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: J1677

Level: (low/med) LOW Date Received: 09/02/99

% Moisture: not dec. 26 Date Analyzed: 09/03/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
74-87-3	-----Chloromethane	13	U
74-83-9	-----Bromomethane	13	U
75-01-4	-----Vinyl Chloride	13	U
75-00-3	-----Chloroethane	13	U
75-09-2	-----Methylene Chloride	13	U
67-64-1	-----Acetone	9	J
75-15-0	-----Carbon Disulfide	13	U
75-35-4	-----1,1-Dichloroethene	13	U
75-34-3	-----1,1-Dichloroethane	13	U
540-59-0	-----1,2-Dichloroethene (total)	13	U
67-66-3	-----Chloroform	13	U
107-06-2	-----1,2-Dichloroethane	13	U
78-93-3	-----2-Butanone	13	U
71-55-6	-----1,1,1-Trichloroethane	13	U
56-23-5	-----Carbon Tetrachloride	13	U
75-27-4	-----Bromodichloromethane	13	U
78-87-5	-----1,2-Dichloropropane	13	U
10061-01-5	-----cis-1,3-Dichloropropene	13	U
79-01-6	-----Trichloroethene	13	U
124-48-1	-----Dibromochloromethane	13	U
79-00-5	-----1,1,2-Trichloroethane	13	U
71-43-2	-----Benzene	13	U
10061-02-6	-----trans-1,3-Dichloropropene	13	U
75-25-2	-----Bromoform	13	U
108-10-1	-----4-Methyl-2-Pentanone	13	U
591-78-6	-----2-Hexanone	13	U
127-18-4	-----Tetrachloroethene	13	U
79-34-5	-----1,1,2,2-Tetrachloroethane	13	U
108-88-3	-----Toluene	13	U
108-90-7	-----Chlorobenzene	13	U
100-41-4	-----Ethylbenzene	13	U
100-42-5	-----Styrene	13	U
1330-20-7	-----Xylene (total)	13	U

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1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE 100

LRW504LSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909012 SAS No.: \_\_\_\_\_ SDG No.: LRT106AWT

Matrix: (soil/water) SOIL Lab Sample ID: 03A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: J1677

Level: (low/med) LOW Date Received: 09/02/99

% Moisture: not dec. 26 Date Analyzed: 09/03/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
-----	-----	-----	-----	-----

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRW508KSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909012 SAS No.: \_\_\_\_\_ SDG No.: LRT106AWT

Matrix: (soil/water) SOIL Lab Sample ID: 02A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: J1676

Level: (low/med) LOW Date Received: 09/02/99

% Moisture: not dec. 16 Date Analyzed: 09/03/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	11	U
67-64-1	-----Acetone	7	J
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	11	U
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRS301-ASO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908141 SAS No.: \_\_\_\_\_ SDG No.: LRS301ASO

Matrix: (soil/water) SOIL Lab Sample ID: 01A

Sample wt/vol: 5.1 (g/mL) G Lab File ID: J1451

Level: (low/med) LOW Date Received: 08/14/99

% Moisture: not dec. 7 Date Analyzed: 08/18/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	1	BJ
67-64-1	-----Acetone	11	U
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	11	U
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U

FORM I VOA

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# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Rd.

**Lab Order:** 9908178

# Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

### Volatiles

A DB624 column from J&W that is 30 m long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1 packing, approximately 20 cm of Tenax, and approximately 10 cm of silica gel.

The pH of sample LR-T102-AWT was determined to be approximately 6 s.u.

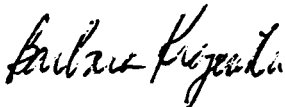
### PCB

The column used for analysis was an RTX-35, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

A portion of the laboratory control sample was lost during concentration resulting in low recoveries. Recoveries were acceptable for the associated sample matrix spike/spike duplicate analysis. No corrective action was taken.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 30, 1999

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE

LRE107ASO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908178

SAS No.:

SDG No.: LRE107ASO

Matrix: (soil/water) SOIL

Lab Sample ID: 01A

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J1512

Level: (low/med) LOW

Date Received: 08/20/99

% Moisture: not dec. 6

Date Analyzed: 08/25/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
74-87-3	-----Chloromethane	11	U	
74-83-9	-----Bromomethane	11	U	
75-01-4	-----Vinyl Chloride	11	U	
75-00-3	-----Chloroethane	11	U	
75-09-2	-----Methylene Chloride	11	U	
67-64-1	-----Acetone	11	U	
75-15-0	-----Carbon Disulfide	11	U	
75-35-4	-----1,1-Dichloroethene	11	U	
75-34-3	-----1,1-Dichloroethane	11	U	
540-59-0	-----1,2-Dichloroethene (total)	11	U	
67-66-3	-----Chloroform	11	U	
107-06-2	-----1,2-Dichloroethane	11	U	
78-93-3	-----2-Butanone	11	U	
71-55-6	-----1,1,1-Trichloroethane	11	U	
56-23-5	-----Carbon Tetrachloride	11	U	
75-27-4	-----Bromodichloromethane	11	U	
78-87-5	-----1,2-Dichloropropane	11	U	
10061-01-5	-----cis-1,3-Dichloropropene	11	U	
79-01-6	-----Trichloroethene	11	U	
124-48-1	-----Dibromochloromethane	11	U	
79-00-5	-----1,1,2-Trichloroethane	11	U	
71-43-2	-----Benzene	11	U	
10061-02-6	-----trans-1,3-Dichloropropene	11	U	
75-25-2	-----Bromoform	11	U	
108-10-1	-----4-Methyl-2-Pentanone	11	U	
591-78-6	-----2-Hexanone	11	U	
127-18-4	-----Tetrachloroethene	11	U	
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U	
108-88-3	-----Toluene	11	U	
108-90-7	-----Chlorobenzene	11	U	
100-41-4	-----Ethylbenzene	11	U	
100-42-5	-----Styrene	11	U	
1330-20-7	-----Xylene (total)	11	U	

FORM I VOA

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE

LRE107ASOM

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908178 SAS No.: \_\_\_\_\_ SDG No.: LRE107ASO

Matrix: (soil/water) SOIL Lab Sample ID: 01AMS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: J1513

Level: (low/med) LOW Date Received: 08/20/99

% Moisture: not dec. 6 Date Analyzed: 08/25/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethane	62	
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	1	J
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	56	
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	60	
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	2	J
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	62	
108-90-7	Chlorobenzene	55	
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

FORM I VOA

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRE107ASOMSD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908178

SAS No.:

SDG No.: LRE107ASO

Matrix: (soil/water) SOIL

Lab Sample ID: 01AMSD

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J1514

Level: (low/med) LOW

Date Received: 08/20/99

% Moisture: not dec. 6

Date Analyzed: 08/25/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	60	
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	52	
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	58	
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	61	
108-90-7	Chlorobenzene	52	
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

FORM I VOA

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# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Project: Luzerne Road

Lab Order: 9908217

## Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

### VOLATILES

A DB624 column from J&W that is 30 m long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1, approximately 20 cm of Tenax, and approximately 10 cm of silica gel.

Results of the spiked blank analysis are included in this report as a measure of quality control. Recoveries of trichloroethene, benzene, and toluene were slightly high for the soil matrix spiked blank. This discrepancy was not noted until after hold time had expired.

The pH of samples LR-T103-AWT and LR-T104-AWT was determined to be approximately 2 s.u.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 27, 1999

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRW602J

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908217 SAS No.: \_\_\_\_\_ SDG No.: LRT103AWT

Matrix: (soil/water) SOIL Lab Sample ID: 05A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: J1592

Level: (low/med) LOW Date Received: 08/25/99

% Moisture: not dec. 14 Date Analyzed: 08/31/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRE208MSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908217 SAS No.: \_\_\_\_\_ SDG No.: LRT103AWT

Matrix: (soil/water) SOIL Lab Sample ID: 03A

Sample wt/vol: 5.1 (g/mL) G Lab File ID: J1590

Level: (low/med) LOW Date Received: 08/25/99

% Moisture: not dec. 15 Date Analyzed: 08/31/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

FORM I VOA

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1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRE208MSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908217

SAS No.:

SDG No.: LRT103AWT

Matrix: (soil/water) SOIL

Lab Sample ID: 03A

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: J1590

Level: (low/med) LOW

Date Received: 08/25/99

% Moisture: not dec. 15

Date Analyzed: 08/31/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRN208M

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908217

SAS No.:

SDG No.: LRT103AWT

Matrix: (soil/water) SOIL

Lab Sample ID: 04A

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: J1591

Level: (low/med) LOW

Date Received: 08/25/99

% Moisture: not dec. 16

Date Analyzed: 08/31/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	UU
75-01-4-----	Vinyl Chloride	12	UUU
75-00-3-----	Chloroethane	12	UUU
75-09-2-----	Methylene Chloride	12	U
67-64-1-----	Acetone	13	
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	UUU
75-34-3-----	1,1-Dichloroethane	12	UUU
540-59-0-----	1,2-Dichloroethene (total)	12	UUU
67-66-3-----	Chloroform	12	UUU
107-06-2-----	1,2-Dichloroethane	12	UUU
78-93-3-----	2-Butanone	12	UUU
71-55-6-----	1,1,1-Trichloroethane	12	UUU
56-23-5-----	Carbon Tetrachloride	12	UUU
75-27-4-----	Bromodichloromethane	12	UUU
78-87-5-----	1,2-Dichloropropane	12	UUU
10061-01-5-----	cis-1,3-Dichloropropene	12	UUU
79-01-6-----	Trichloroethene	12	UUU
124-48-1-----	Dibromochloromethane	12	UUU
79-00-5-----	1,1,2-Trichloroethane	12	UUU
71-43-2-----	Benzene	12	UUU
10061-02-6-----	trans-1,3-Dichloropropene	12	UUU
75-25-2-----	Bromoform	12	UUU
108-10-1-----	4-Methyl-2-Pentanone	12	UUU
591-78-6-----	2-Hexanone	12	UUU
127-18-4-----	Tetrachloroethene	12	UUU
79-34-5-----	1,1,2,2-Tetrachloroethane	12	UUU
108-88-3-----	Toluene	12	UUU
108-90-7-----	Chlorobenzene	12	UUU
100-41-4-----	Ethylbenzene	12	UUU
100-42-5-----	Styrene	12	UUU
1330-20-7-----	Xylene (total)	12	U

FORM I VOA

10/95

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO

LRN208M

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908217

SAS No.:

SDG No.: LRT103AWT

Matrix: (soil/water) SOIL

Lab Sample ID: 04A

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: J1591

Level: (low/med) LOW

Date Received: 08/25/99

% Moisture: not dec. 16

Date Analyzed: 08/31/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown siloxane	28.70	7	J

# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Project: Luzerne Road

Lab Order: 9909071

# Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

### VOLATILES

A DB624 column from J&W that is 30 m long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1 pack approximately 20 cm of Tenax, and approximately 10 cm of silica gel.

Sample LR-T108-AWT was determined to be at a pH of approximately 6 s.u.

No discrepancies were noted during the analyses.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
October 4, 1999

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE

LRW510KSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909071

SAS No.:

SDG No.: LRT108AWT

Matrix: (soil/water) SOIL

Lab Sample ID: 02A

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J1864

Level: (low/med) LOW

Date Received: 09/09/99

% Moisture: not dec. 18

Date Analyzed: 09/15/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	12	U
67-64-1	-----Acetone	6	J
75-15-0	-----Carbon Disulfide	12	U
75-35-4	-----1,1-Dichloroethene	12	U
75-34-3	-----1,1-Dichloroethane	12	U
540-59-0	-----1,2-Dichloroethene (total)	12	U
67-66-3	-----Chloroform	12	U
107-06-2	-----1,2-Dichloroethane	12	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	12	U
56-23-5	-----Carbon Tetrachloride	12	U
75-27-4	-----Bromodichloromethane	12	U
78-87-5	-----1,2-Dichloropropane	12	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	12	U
124-48-1	-----Dibromochloromethane	12	U
79-00-5	-----1,1,2-Trichloroethane	12	U
71-43-2	-----Benzene	12	U
10061-02-6	-----trans-1,3-Dichloropropene	12	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-Pentanone	12	U
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	12	U
79-34-5	-----1,1,2,2-Tetrachloroethane	12	U
108-88-3	-----Toluene	12	U
108-90-7	-----Chlorobenzene	12	U
100-41-4	-----Ethylbenzene	12	U
100-42-5	-----Styrene	12	U
1330-20-7	-----Xylene (total)	12	U

FORM I VOA

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1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRW510KSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909071

SAS No.:

SDG No.: LRT108AWT

Matrix: (soil/water) SOIL

Lab Sample ID: 02A

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J1864

Level: (low/med) LOW

Date Received: 09/09/99

% Moisture: not dec. 18

Date Analyzed: 09/15/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE

LRT108AWTM

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909071 SAS No.: \_\_\_\_\_ SDG No.: LRT108AWT

Matrix: (soil/water) WATER Lab Sample ID: 01AMS

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J1817

Level: (low/med) LOW Date Received: 09/09/99

% Moisture: not dec. Date Analyzed: 09/14/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	51	
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	51	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	50	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	51	
108-90-7	Chlorobenzene	50	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRT108AWTMSD

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909071 SAS No.: \_\_\_\_\_ SDG No.: LRT108AWT

Matrix: (soil/water) WATER Lab Sample ID: 01AMSD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J1818

Level: (low/med) LOW Date Received: 09/09/99

% Moisture: not dec. Date Analyzed: 09/14/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	52	
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	52	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	51	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	52	
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE

LRW510KSOMF

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909071 SAS No.: \_\_\_\_\_ SDG No.: LRT108AWT

Matrix: (soil/water) SOIL Lab Sample ID: 02AMS

Sample wt/vol: 5.3 (g/mL) G Lab File ID: J1865

Level: (low/med) LOW Date Received: 09/09/99

% Moisture: not dec. 18 Date Analyzed: 09/15/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	12	U
67-64-1	-----Acetone	6	J
75-15-0	-----Carbon Disulfide	12	U
75-35-4	-----1,1-Dichloroethene	59	
75-34-3	-----1,1-Dichloroethane	12	U
540-59-0	-----1,2-Dichloroethene (total)	12	U
67-66-3	-----Chloroform	12	U
107-06-2	-----1,2-Dichloroethane	12	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	12	U
56-23-5	-----Carbon Tetrachloride	12	U
75-27-4	-----Bromodichloromethane	12	U
78-87-5	-----1,2-Dichloropropane	12	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	55	
124-48-1	-----Dibromochloromethane	12	U
79-00-5	-----1,1,2-Trichloroethane	12	U
71-43-2	-----Benzene	58	
10061-02-6	-----trans-1,3-Dichloropropene	12	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-Pentanone	1	J
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	12	U
79-34-5	-----1,1,2,2-Tetrachloroethane	12	U
108-88-3	-----Toluene	57	
108-90-7	-----Chlorobenzene	59	
100-41-4	-----Ethylbenzene	12	U
100-42-5	-----Styrene	12	U
1330-20-7	-----Xylene (total)	12	U

FORM I VOA

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRW510KSOMSD

Lab Name: E & E INC. Contract: \_\_\_\_\_  
 Lab Code: EANDE Case No.: 9909071 SAS No.: \_\_\_\_\_ SDG No.: LRT108AWT  
 Matrix: (soil/water) SOIL Lab Sample ID: 02AMSD  
 Sample wt/vol: 5.1 (g/mL) G Lab File ID: J1866  
 Level: (low/med) LOW Date Received: 09/09/99  
 % Moisture: not dec. 18 Date Analyzed: 09/15/99  
 GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	12	U
67-64-1	-----Acetone	6	J
75-15-0	-----Carbon Disulfide	12	U
75-35-4	-----1,1-Dichloroethene	64	
75-34-3	-----1,1-Dichloroethane	12	U
540-59-0	-----1,2-Dichloroethene (total)	12	U
67-66-3	-----Chloroform	12	U
107-06-2	-----1,2-Dichloroethane	12	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	12	U
56-23-5	-----Carbon Tetrachloride	12	U
75-27-4	-----Bromodichloromethane	12	U
78-87-5	-----1,2-Dichloropropane	12	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	58	
124-48-1	-----Dibromochloromethane	12	U
79-00-5	-----1,1,2-Trichloroethane	12	U
71-43-2	-----Benzene	60	
10061-02-6	-----trans-1,3-Dichloropropene	12	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-Pentanone	2	J
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	12	U
79-34-5	-----1,1,2,2-Tetrachloroethane	12	U
108-88-3	-----Toluene	60	
108-90-7	-----Chlorobenzene	62	
100-41-4	-----Ethylbenzene	12	U
100-42-5	-----Styrene	12	U
1330-20-7	-----Xylene (total)	12	U

FORM I VOA

10/95

**Ecology and Environment, Inc.**

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Road

**Lab Order:** 9909042

**Laboratory Results**

NYS ELAP ID#: 10486

**CASE NARRATIVE**

**VOLATILES**

A DB624 column from J&W that is 30 m long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1 packing, approximately 20 cm of Tenax, and approximately 10 cm of silica gel.

Sample LR-T107-AWT was determined to be at a pH of approximately 6 s.u.

No discrepancies were noted during the analyses.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
October 4, 1999

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRMW45ASO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909042

SAS No.:

SDG No.: LRMW45ASO

Matrix: (soil/water) SOIL

Lab Sample ID: 01A

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J1697

Level: (low/med) LOW

Date Received: 09/04/99

% Moisture: not dec. 8

Date Analyzed: 09/08/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	11	U
67-64-1	-----Acetone	11	U
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	11	U
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U

FORM I VOA

10/95



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRMW45ASOMS

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909042

SAS No.:

SDG No.: LRMW45ASO

Matrix: (soil/water) SOIL

Lab Sample ID: 01AMS

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J1698

Level: (low/med) LOW

Date Received: 09/04/99

% Moisture: not dec. 8

Date Analyzed: 09/08/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	63	
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	58	
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	63	
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	68	
108-90-7	Chlorobenzene	59	
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

FORM I VOA

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO

LRMW45ASOMST

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909042

SAS No.:

SDG No.: LRMW45ASO

Matrix: (soil/water) SOIL

Lab Sample ID: 01AMSD

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J1699

Level: (low/med) LOW

Date Received: 09/04/99

% Moisture: not dec. 8

Date Analyzed: 09/09/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	11	U
67-64-1	-----Acetone	11	U
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	63	
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	58	
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	63	
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	68	
108-90-7	-----Chlorobenzene	60	
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U

FORM I VOA



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRT107AWTMS

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909042 SAS No.: \_\_\_\_\_ SDG No.: LRMW45ASO

Matrix: (soil/water) WATER Lab Sample ID: 03AMS

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J1783

Level: (low/med) LOW Date Received: 09/04/99

% Moisture: not dec. Date Analyzed: 09/11/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	50	
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	48	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	48	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	49	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRT107AWTMSD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909042

SAS No.:

SDG No.: LRMW45ASO

Matrix: (soil/water) WATER

Lab Sample ID: 03AMSD

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: J1784

Level: (low/med) LOW

Date Received: 09/04/99

% Moisture: not dec.

Date Analyzed: 09/11/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	50	
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	48	
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	49	
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	50	
108-90-7	-----Chlorobenzene	49	
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

FORM I VOA

10/95

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LR-W305-GSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908104

SAS No.:

SDG No.: LRW305GSO

Matrix: (soil/water) SOIL

Lab Sample ID: 01A

Sample wt/vol: 5.5 (g/mL) G

Lab File ID: J1448

Level: (low/med) LOW

Date Received: 08/12/99

% Moisture: not dec. 8

Date Analyzed: 08/18/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA

10/95



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LR-W404-LSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908104 SAS No.: \_\_\_\_\_ SDG No.: LRW305GSO

Matrix: (soil/water) SOIL Lab Sample ID: 03A

Sample wt/vol: 5.4 (g/mL) G Lab File ID: J1450

Level: (low/med) LOW Date Received: 08/12/99

% Moisture: not dec. 16 Date Analyzed: 08/18/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LR-W305-GSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908104

SAS No.:

SDG No.: LRW305GSO

Matrix: (soil/water) SOIL

Lab Sample ID: 01A

Sample wt/vol: 5.5 (g/mL) G

Lab File ID: J1448

Level: (low/med) LOW

Date Received: 08/12/99

% Moisture: not dec. 8

Date Analyzed: 08/18/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LR-W309-GSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908104

SAS No.:

SDG No.: LRW305GSO

Matrix: (soil/water) SOIL

Lab Sample ID: 02A

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: J1449

Level: (low/med) LOW

Date Received: 08/12/99

% Moisture: not dec. 5

Date Analyzed: 08/18/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

FORM I VOA

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LR-W404-LSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908104

SAS No.:

SDG No.: LRW305GSO

Matrix: (soil/water) SOIL

Lab Sample ID: 03A

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: J1450

Level: (low/med) LOW

Date Received: 08/12/99

% Moisture: not dec. 16

Date Analyzed: 08/18/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

FORM I VOA

10/95



# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office  
**Project:** Luzerne Road  
**Lab Order:** 9908260

# Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

### VOLATILES

A DB624 column from J&W that is 30 m long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1 pack, approximately 20 cm of Tenax, and approximately 10 cm of silica gel.

Results of the spiked blank analysis are included in this report as a measure of quality control.

The pH of sample LR-T105-AWT was determined to be approximately 6 s.u.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 28, 1999

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE N

LRMW2SHSD

Lab Name: E & E INC. Contract: \_\_\_\_\_  
 Lab Code: EANDE Case No.: 9908260 SAS No.: \_\_\_\_\_ SDG No.: LRW707JSO  
 Matrix: (soil/water) SOIL Lab Sample ID: 03A  
 Sample wt/vol: 5.3 (g/mL) G Lab File ID: J1647  
 Level: (low/med) LOW Date Received: 08/30/99  
 % Moisture: not dec. 4 Date Analyzed: 09/02/99  
 GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: \_\_\_\_\_

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	2	J
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

FORM I VOA

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1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO

LRMW2SHSD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908260

SAS No.:

SDG No.: LRW707JSD

Matrix: (soil/water) SOIL

Lab Sample ID: 03A

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: J1647

Level: (low/med) LOW

Date Received: 08/30/99

% Moisture: not dec. 4

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO

LRMW2SISO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908260

SAS No.:

SDG No.: LRW707JSO

Matrix: (soil/water) SOIL

Lab Sample ID: 04A

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: J1648

Level: (low/med) LOW

Date Received: 08/30/99

% Moisture: not dec. 23

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

033

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO

LRMW2SISO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908260

SAS No.:

SDG No.: LRW707JSO

Matrix: (soil/water) SOIL

Lab Sample ID: 04A

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: J1648

Level: (low/med) LOW

Date Received: 08/30/99

% Moisture: not dec. 23

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE N

LRMW2SJSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908260 SAS No.: \_\_\_\_\_ SDG No.: LRW707JSO

Matrix: (soil/water) SOIL Lab Sample ID: 05A

Sample wt/vol: 5.3 (g/mL) G Lab File ID: J1649

Level: (low/med) LOW Date Received: 08/30/99

% Moisture: not dec. 21 Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	12	U
67-64-1	-----Acetone	12	U
75-15-0	-----Carbon Disulfide	12	U
75-35-4	-----1,1-Dichloroethene	12	U
75-34-3	-----1,1-Dichloroethane	12	U
540-59-0	-----1,2-Dichloroethene (total)	12	U
67-66-3	-----Chloroform	12	U
107-06-2	-----1,2-Dichloroethane	12	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	12	U
56-23-5	-----Carbon Tetrachloride	12	U
75-27-4	-----Bromodichloromethane	12	U
78-87-5	-----1,2-Dichloropropane	12	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	12	U
124-48-1	-----Dibromochloromethane	12	U
79-00-5	-----1,1,2-Trichloroethane	12	U
71-43-2	-----Benzene	12	U
10061-02-6	-----trans-1,3-Dichloropropene	12	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-Pentanone	12	U
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	12	U
79-34-5	-----1,1,2,2-Tetrachloroethane	12	U
108-88-3	-----Toluene	12	U
108-90-7	-----Chlorobenzene	12	U
100-41-4	-----Ethylbenzene	12	U
100-42-5	-----Styrene	12	U
1330-20-7	-----Xylene (total)	12	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO

LRMW2SJSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908260

SAS No.:

SDG No.: LRW707JSO

Matrix: (soil/water) SOIL

Lab Sample ID: 05A

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: J1649

Level: (low/med) LOW

Date Received: 08/30/99

% Moisture: not dec. 21

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====





1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO

LRW707JSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908260

SAS No.:

SDG No.: LRW707JSO

Matrix: (soil/water) SOIL

Lab Sample ID: 01A

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: J1645

Level: (low/med) LOW

Date Received: 08/30/99

% Moisture: not dec. 15

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO

LRW708FSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908260 SAS No.: \_\_\_\_\_ SDG No.: LRW707JSO

Matrix: (soil/water) SOIL Lab Sample ID: 02A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: J1646

Level: (low/med) LOW Date Received: 08/30/99

% Moisture: not dec. 26 Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13	U
67-64-1	Acetone	4	J
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	13	U

FORM I VOA

10/95

056

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO

LRW708FSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908260

SAS No.:

SDG No.: LRW707JSO

Matrix: (soil/water) SOIL

Lab Sample ID: 02A

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: J1646

Level: (low/med) LOW

Date Received: 08/30/99

% Moisture: not dec. 26

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 104

Phone: (716) 685-

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W707-JSO
<b>Lab Order:</b>	9908260	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/27/99 9:41:00 AM
<b>Lab ID:</b>	9908260-07A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Anal
<b>TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN</b>								
<b>1_LK_TOC_S</b>								
Total Organic Carbon	ND		2200	mg/Kg-dry	1	9/1/99	TOC 5000A_990901A	

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limit
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/22/99 4:00:00 PM

**Ecology and Environment, Inc.**

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

**Laboratory Results**

NYS ELAP ID#: 1048

Phone: (716) 685-808

CLIENT: E and E Buffalo Office

Client Sample ID: LR-MW2S-JSO

Lab Order: 9908260

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/27/99 11:35:00 AM

Lab ID: 9908260-08A Sample Type: SAMP

Matrix: SOIL

% Moist: 18.1

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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**TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN**

**1\_LK\_TOC\_S**

Total Organic Carbon	ND		2270	mg/Kg-dry	1	9/1/99	TOC 5000A_990901A	DMR
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Definitions:

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside lim
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/22/99 4:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Result

NYS ELAP ID#: 104  
Phone: (716) 685-8000

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	MW-3S-KSO
<b>Lab Order:</b>	9908269	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/30/99 12:44:00 PM
<b>Lab ID:</b>	9908269-03A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	2

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
<b>TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN</b>								
<b>1_LK_TOC_S</b>								
Total Organic Carbon	ND		2380	mg/Kg-dry	1	9/1/99	TOC 5000A_990901A	DMW

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limit
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/25/99 10:00:00 AM

**Ecology and Environment, Inc.**

**Laboratory Results**

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office Client Sample ID: LR-MW45-CSO  
 Lab Order: 9909042 Alt. Client ID:  
 Project: Luzerne Road Collection Date: 9/3/99 10:26:00 AM  
 Lab ID: 9909042-02A Sample Type: SAMP Matrix: SOIL % Moist: 3.4

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN  
1\_LK\_TOC\_S

Total Organic Carbon	ND		1940	mg/Kg-dry	1	9/7/99	TOC 5000A_990907A	DMR
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Definitions: ND - Not Detected at the Reporting Limit \* - Recovery outside limits M -Matrix Spike recovery outside limi  
 J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
 H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office      Client Sample ID: LR-W110-ASO  
Lab Order: 9909199      Alt. Client ID:  
Project: Luzerne Road      Collection Date: 9/22/99 8:29:00 AM  
Lab ID: 9909199-11A      Sample Type: SAMP      Matrix: SOIL      % Moist: 13.10

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN  
1\_LK\_TOC\_S

Total Organic Carbon	8350		2200	mg/Kg-dry	1	9/28/99	TOC 5000A_990928A	DMR
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Definitions:      ND - Not Detected at the Reporting Limit      \* - Recovery outside limits      M -Matrix Spike recovery outside limits  
                         J - Analyte detected below Reporting limits      R - RPD outside recovery limits      Q - Qualifier  
                         B - Analyte detected in the associated Method Blank      E - Value above quantitation range      Limit - Reporting Limit  
                         H - Value exceeds Maximum Contaminant Level      Surr - Denotes Surrogate Compound



# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086-

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR--W110-DSO

Lab Order: 9909199

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/22/99 8:35:00 AM

Lab ID: 9909199-12A Sample Type: SAMP

Matrix: SOIL

% Moist: 11.80

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN

1\_LK\_TOC\_S

Total Organic Carbon	ND		2220	mg/Kg-dry	1	9/28/99	TOC 5000A_990928A	DMR
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Definitions:

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M - Matrix Spike recovery outside limits

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

H - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office Client Sample ID: LR-58IS2-BSO  
Lab Order: 9909199 Alt. Client ID:  
Project: Luzerne Road Collection Date: 9/22/99 10:11:00 AM  
Lab ID: 9909199-13A Sample Type: SAMP Matrix: SOIL % Moist: 11.00

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN  
1\_LK\_TOC\_S

Total Organic Carbon	8120		2230	mg/Kg-dry	1	9/28/99	TOC 5000A_990928A	DMR
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Definitions: ND - Not Detected at the Reporting Limit \* - Recovery outside limits M - Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 10/14/99 6:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 104

Phone: (716) 685-80

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<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-W310-KSO
<b>Lab Order:</b> 9908245	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 8/26/99 11:51:00 AM
<b>Lab ID:</b> 9908245-01A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b> 20

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Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Anal
<b>TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN</b>								
<b>1_LK_TOC_S</b>								
Total Organic Carbon	ND		2390	mg/Kg-dry	1	9/1/99	TOC 5000A_990901A	DM

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<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

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LIMS Version #: 3.1.1.0Dev - 9/22/99 4:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Report

NYS ELAP ID#: 104

Phone: (716) 685-80

**CLIENT:** E and E Buffalo Office **Client Sample ID:** LR-W409-IS0  
**Lab Order:** 9908245 **Alt. Client ID:**  
**Project:** Luzerne Road **Collection Date:** 8/26/99 2:07:00 PM  
**Lab ID:** 9908245-02A **Sample Type:** SAMP **Matrix:** SOIL **% Moist:** 4

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Anal
<b>TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN</b>								
<b>1_LK_TOC_S</b>								
Total Organic Carbon	ND		2260	mg/Kg-dry	1	9/1/99	TOC 5000A_990901A	DM

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/22/99 4:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Result

NYS ELAP ID#: 1048

Phone: (716) 685-808

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<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-MW15-JSO
<b>Lab Order:</b> 9908245	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 8/26/99 4:20:00 PM
<b>Lab ID:</b> 9908245-03A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b> 19

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Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN  
1\_LK\_TOC\_S

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Total Organic Carbon	ND		2440	mg/Kg-dry	1	9/1/99	TOC 5000A_990901A	DMF
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<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

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LIMS Version #: 3.1.1.0Dev - 9/22/99 4:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 7180  
Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W212-KSO
<b>Lab Order:</b>	9908230	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/25/99 2:04:00 PM
<b>Lab ID:</b>	9908230-01A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	8.0

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Ar	vs
<b>TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN</b>									
<b>1_LK_TOC_S</b>									
Total Organic Carbon	ND		2360	mg/Kg-dry	1	9/1/99	TOC 5000A_990901A		DMR

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/16/99 5:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-S102-0SO/SD

Lab Order: 9909001

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/31/99 10:49:00 AM

Lab ID: 9909001-03A Sample Type: SAMP

Matrix: SOIL

% Moist: 18.60

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN

1\_LK\_TOC\_S

Total Organic Carbon	ND		2380	mg/Kg-dry	1	9/7/99	TOC 5000A_990907A	DMR
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Definitions: ND - Not Detected at the Reporting Limit

J - Analyte detected below Reporting limits

B - Analyte detected in the associated Method Blank

H - Value exceeds Maximum Contaminant Level

\* - Recovery outside limits

R - RPD outside recovery limits

E - Value above quantitation range

Surr - Denotes Surrogate Compound

M - Matrix Spike recovery outside limits

Q - Qualifier

Limit - Reporting Limit

LIMS Version #: 3.1.1.0Dev - 9/22/99 4:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 1048  
Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-MW5S-NSO
<b>Lab Order:</b>	9909001	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/31/99
<b>Lab ID:</b>	9909001-16A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	16.50

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Anal
<b>TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN</b>								
<b>1_LK_TOC_S</b>								
Total Organic Carbon	5940		2390	mg/Kg-dry	1	9/7/99	TOC 5000A_990907A	DMR

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	



# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086-

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-W212-KSO

Lab Order: 9908230

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/25/99 2:04:00 PM

Lab ID: 9908230-01A Sample Type: SAMP

Matrix: SOIL

% Moist:

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
<b>PERCENT MOISTURE</b>								
<b>PMOIST</b>								
Percent Moisture	18.0		0.1	wt%	1	9/3/99	WC_PMOIST_990903A	TCM

Definitions: ND - Not Detected at the Reporting Limit \* - Recovery outside limits M - Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/16/99 5:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Res

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086-

NYS ELAP ID#: 104

Phone: (716) 685

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-W707-JSO
<b>Lab Order:</b>	9908260	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/27/99 9:41:00 AM
<b>Lab ID:</b>	9908260-01A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Anal
<b>PERCENT MOISTURE</b>								
<b>PMOIST</b>								
Percent Moisture	15.3		0.1	wt%	1	9/3/99	WC_PMOIST_990903B	

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9 22 99 4:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 1048

Phone: (716) 685-808

CLIENT: E and E Buffalo Office

Client Sample ID: LR-W708-FSO

Lab Order: 9908260

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/27/99 11:46:00 AM

Lab ID: 9908260-02A Sample Type: SAMP

Matrix: SOIL

% Moist:

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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## PERCENT MOISTURE

### PMOIST

Percent Moisture	25.9		0.1	wt%	1	9/3/99	WC_PMOIST_990903B	TCM
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#### Definitions:

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M - Matrix Spike recovery outside lim

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

H - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9 22 99 4:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Resu

NYS ELAP ID#: 1

Phone: (716) 68

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-MW2S-HSD
<b>Lab Order:</b>	9908260	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/27/99 11:20:00 AM
<b>Lab ID:</b>	9908260-03A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Am
<b>PERCENT MOISTURE</b>								
<b>PMOIST</b>								
Percent Moisture	4.51		0.1	wt%	1	9/3/99	WC_PMOIST_990903B	

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9 22 99 4:00:00 PM

**Ecology and Environment, Inc.**

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086-

**Laboratory Results**

NYS ELAP ID#: 1048

Phone: (716) 685-808

CLIENT: E and E Buffalo Office

Client Sample ID: LR-MW2S-ISO

Lab Order: 9908260

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/27/99 11:30:00 AM

Lab ID: 9908260-04A

Sample Type: SAMP

Matrix: SOIL

% Moist:

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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**PERCENT MOISTURE**

**PMOIST**

Percent Moisture	22.6		0.1	wt%	1	9/3/99	WC_PMOIST_990903B	TCM
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**Definitions:**

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M -Matrix Spike recovery outside limi

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

H - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9 22 99 4:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 1048

Phone: (716) 685-

CLIENT: E and E Buffalo Office      Client Sample ID: LR-MW2S-JSO  
Lab Order: 9908260      Alt. Client ID:  
Project: Luzerne Road      Collection Date: 8/27/99 11:35:00 AM  
Lab ID: 9908260-05A      Sample Type: SAMP      Matrix: SOIL      % Moist:

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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### PERCENT MOISTURE PMOIST

Percent Moisture	20.6		0.1	wt%	1	9/3/99	WC_PMOIST_990903B	
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Definitions: ND - Not Detected at the Reporting Limit      \* - Recovery outside limits      M -Matrix Spike recovery outside limit  
J - Analyte detected below Reporting limits      R - RPD outside recovery limits      Q - Qualifier  
B - Analyte detected in the associated Method Blank      E - Value above quantitation range      Limit - Reporting Limit  
H - Value exceeds Maximum Contaminant Level      Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/22/99 4:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086-

# Laboratory Result

NYS ELAP ID#: 1048

Phone: (716) 685-808

CLIENT: E and E Buffalo Office

Client Sample ID: LR-W707-JSO

Lab Order: 9908260

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/27/99 9:41:00 AM

Lab ID: 9908260-07A Sample Type: SAMP

Matrix: SOIL

% Moist:

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyt
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## PERCENT MOISTURE

### PMOIST

Percent Moisture	9.77		0.1	wt%	1	9/3/99	WC_PMOIST_990903B	TCM
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#### Definitions:

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M -Matrix Spike recovery outside limits

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

H - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/22/99 4:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 1048

Phone: (716) 685-

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-MW2S-JSO
<b>Lab Order:</b>	9908260	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/27/99 11:35:00 AM
<b>Lab ID:</b>	9908260-08A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyte
<b>PERCENT MOISTURE</b>								
<b>PMOIST</b>								
Percent Moisture	18.7		0.1	wt%	1	9/3/99	WC_PMOIST_990903B	

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limit
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/22/99 4:00:00 PM



**Ecology and Environment, Inc.**

**Laboratory Results**

**Analytical Services Center**

4493 Walden Avenue  
Lancaster, New York 14086-

NYS ELAP ID#: 10486

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Client Sample ID:** LR-MW~~45~~-ASO

**Lab Order:** 9909042

**Alt. Client ID:** 45

**Project:** Luzerne Road

**Collection Date:** 9/3/99 10:22:00 AM

**Lab ID:** 9909042-01A **Sample Type:** SAMP

**Matrix:** SOIL

**% Moist:**

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
<b>PERCENT MOISTURE</b>								
<b>PMOIST</b>								
Percent Moisture	8.19		0.1	wt%	1	9/10/99	WC_PMOIST_990910A	DMR

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 1048

Phone: (716) 685-

CLIENT: E and E Buffalo Office      Client Sample ID: LR-MW47-CSO  
 Lab Order: 9909042      Alt. Client ID: 45  
 Project: Luzerne Road      Collection Date: 9/3/99 10:26:00 AM  
 Lab ID: 9909042-02A      Sample Type: SAMP      Matrix: SOIL      % Moist:

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
<b>PERCENT MOISTURE</b>								
<b>PMOIST</b>								
Percent Moisture	3.46		0.1	wt%	1	9/7/99	WC_PMOIST_990907A	

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

**PCB Landfill Cell Subsurface Soil TCL Data**



**Ecology and Environment, Inc.**

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

**Laboratory Results**

NYS ELAP ID#: 10486

Phone: (716) 685-8080

October 04, 1999

Mr. Steve Blair

Ecology & Environment, Inc.

368 Pleasant View Dr.

Lancaster, NY 14086

RE: Luzerne Road - 000699.QQ08.00.02.70

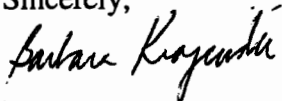
Work Order No.: **9909001**

Dear Mr. Blair,

Ecology and Environment, Inc. received 16 samples on Wednesday, September 01, 1999 for the analyses presented in the following report.

E & E will retain the samples addressed in this report for 30 days, unless otherwise instructed by the client. If additional storage is requested, the storage fee is \$1.00 per sample container per month, to accrue until the client authorizes sample destruction.

Sincerely,



Barbara Krajewski

Project Manager

CC: Lab File

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRCGP1BSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909001 SAS No.: \_\_\_\_\_ SDG No.: LRW108LSD

Matrix: (soil/water) SOIL Lab Sample ID: 12A

Sample wt/vol: 5.3 (g/mL) G Lab File ID: J1661

Level: (low/med) LOW Date Received: 09/01/99

% Moisture: not dec. 20 Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	81	
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	14	
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

FORM I VOA

10/95

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRCGP1DSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909001 SAS No.: \_\_\_\_\_ SDG No.: LRW108LSD

Matrix: (soil/water) SOIL Lab Sample ID: 13A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: J1662

Level: (low/med) LOW Date Received: 09/01/99

% Moisture: not dec. 9 Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	11	U
67-64-1	-----Acetone	85	
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	19	
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	2	J
108-90-7	-----Chlorobenzene	120	
100-41-4	-----Ethylbenzene	2	J
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	20	

FORM I VOA

10/95

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO. ☾

LRCGP1FSO ☾

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9909001 SAS No.: SDG No.: LRW108LSD

Matrix: (soil/water) SOIL Lab Sample ID: 14A

Sample wt/vol: 5.4 (g/mL) G Lab File ID: J1663

Level: (low/med) LOW Date Received: 09/01/99

% Moisture: not dec. 5 Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	35	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	1	J
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	6	J
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	95	
100-41-4	Ethylbenzene	2	J
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	14	

FORM I VOA

10/95 ☾



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRCGP2BSO
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Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909001

SAS No.:

SDG No.: LRW108LSD

Matrix: (soil/water) SOIL

Lab Sample ID: 06A

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J1656

Level: (low/med) LOW

Date Received: 09/01/99

% Moisture: not dec. 12

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	11	U
67-64-1	-----Acetone	20	
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	3	J
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	11	U
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U

FORM I VOA

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO. ☺

LRCGP2DSO ☺

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9909001 SAS No.: SDG No.: LRW108LSD ☺

Matrix: (soil/water) SOIL Lab Sample ID: 07A

Sample wt/vol: 5.1 (g/mL) G Lab File ID: J1657 ☺

Level: (low/med) LOW Date Received: 09/01/99 ☺

% Moisture: not dec. 13 Date Analyzed: 09/02/99 ☺

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0 ☺

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL) ☺

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	11	U
67-64-1	-----Acetone	25	
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	5	J
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	11	U
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U

FORM I VOA

10/95 ☺

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRCGP2FSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909001

SAS No.:

SDG No.: LRW108LSD

Matrix: (soil/water) SOIL

Lab Sample ID: 08A

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: J1658

Level: (low/med) LOW

Date Received: 09/01/99

% Moisture: not dec. 10

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	50	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	10	J
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

FORM I VOA.

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRCGP2HSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909001

SAS No.:

SDG No.: LRW108LSD

Matrix: (soil/water) SOIL

Lab Sample ID: 09A

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: J1659

Level: (low/med) LOW

Date Received: 09/01/99

% Moisture: not dec. 8

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (ug/L or ug/Kg) UG/KG                      Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	150	
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	6	J
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	30	
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	3	J
108-90-7	-----Chlorobenzene	62	
100-41-4	-----Ethylbenzene	2	J
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	12	

FORM I VOA

10/95

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRCGP2HSORE
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Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909001

SAS No.:

SDG No.: LRW108LSD

Matrix: (soil/water) SOIL

Lab Sample ID: 09ARE

Sample wt/vol: 5.5 (g/mL) G

Lab File ID: J1665

Level: (low/med) LOW

Date Received: 09/01/99

% Moisture: not dec. 8

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	140	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	9	J
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	34	
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	60	
100-41-4	Ethylbenzene	2	J
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	13	

FORM I VOA

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO. LRCGP2ISO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909001

SAS No.:

SDG No.: LRW108LSD

Matrix: (soil/water) SOIL

Lab Sample ID: 11A

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: J1660

Level: (low/med) LOW

Date Received: 09/01/99

% Moisture: not dec. 10

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	170	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	16	
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	33	
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	12	
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	8	J
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	2	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	6	J
108-90-7	Chlorobenzene	150	
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	8	J

FORM I VOA

10/95

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRCGP2ISORE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909001

SAS No.:

SDG No.: LRW108LSD

Matrix: (soil/water) SOIL

Lab Sample ID: 11ARE

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: J1666

Level: (low/med) LOW

Date Received: 09/01/99

% Moisture: not dec. 10

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	1	J
67-64-1	-----Acetone	160	
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	12	
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	31	
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	7	J
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	5	J
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	J
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	3	J
108-90-7	-----Chlorobenzene	62	
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	3	J

FORM I VOA

10/95

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO. LRS302GSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909001

SAS No.:

SDG No.: LRW108LSD

Matrix: (soil/water) SOIL

Lab Sample ID: 02A

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: J1655

Level: (low/med) LOW

Date Received: 09/01/99

% Moisture: not dec. 2

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA

10/95



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRCGP2BSOMS

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909001

SAS No.:

SDG No.: LRW108LSD

Matrix: (soil/water) SOIL

Lab Sample ID: 06AMS

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J1667

Level: (low/med) LOW

Date Received: 09/01/99

% Moisture: not dec. 12

Date Analyzed: 09/02/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	36	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	67	
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	6	J
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	63	
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	63	
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	65	
108-90-7	Chlorobenzene	63	
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

FORM I VOA

10/95

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO. ◐

LRCGP2BSOMSD ◐

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909001

SAS No.:

SDG No.: LRW108LSD ◐

Matrix: (soil/water) SOIL

Lab Sample ID: 06AMSD

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: J1668 ◐

Level: (low/med) LOW

Date Received: 09/01/99 ◐

% Moisture: not dec. 12

Date Analyzed: 09/02/99 ◐

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0 ◐

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL) ◐

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	34	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	72	
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	6	J
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	66	
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	65	
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	2	J
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	68	
108-90-7	Chlorobenzene	65	
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

FORM I VOA

10/95 ◐

259 ◐

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-W108-LSD

Lab Order: 9909001

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/31/99 8:13:00 AM

Lab ID: 9909001-01A Sample Type: SAMP

Matrix: SOIL

% Moist: 18.80

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		24.3	µg/Kg-dry	1	9/19/99 3:29:48 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		48.5	µg/Kg-dry	1			
Aroclor 1232	ND		24.3	µg/Kg-dry	1			
Aroclor 1242	146		24.3	µg/Kg-dry	1			
Aroclor 1248	ND		24.3	µg/Kg-dry	1			
Aroclor 1254	54.4		24.3	µg/Kg-dry	1			
Aroclor 1260	ND		24.3	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	104.9		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	87.6		39-125	%REC	1			

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10480

Phone: (716) 685-8080

<b>CLIENT:</b> E and E Buffalo Office	<b>Client Sample ID:</b> LR-CGP2-BSO
<b>Lab Order:</b> 9909001	<b>Alt. Client ID:</b>
<b>Project:</b> Luzerne Road	<b>Collection Date:</b> 8/31/99 3:11:00 PM
<b>Lab ID:</b> 9909001-06A <b>Sample Type:</b> SAMP	<b>Matrix:</b> SOIL <b>% Moist:</b> 11.80

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		21.0	µg/Kg-dry	1	9/25/99 8:35:05 AM	HP68902A_990924A	RJS
Aroclor 1221	ND		42.0	µg/Kg-dry	1			
Aroclor 1232	ND		21.0	µg/Kg-dry	1			
Aroclor 1242	382		21.0	µg/Kg-dry	1			
Aroclor 1248	ND		21.0	µg/Kg-dry	1			
Aroclor 1254	149		21.0	µg/Kg-dry	1			
Aroclor 1260	ND		21.0	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	99.5		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	97.0		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-CGP2-DSO

Lab Order: 9909001

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/31/99 3:21:00 PM

Lab ID: 9909001-07A Sample Type: SAMP

Matrix: SOIL

% Moist: 13.10

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		41100	µg/Kg-dry	2000	9/20/99 3:51:50 PM	HP68902B_990915A	RJS
Aroclor 1221	ND		82200	µg/Kg-dry	2000			
Aroclor 1232	ND		41100	µg/Kg-dry	2000			
Aroclor 1242	689000	E	41100	µg/Kg-dry	2000			
Aroclor 1248	ND		41100	µg/Kg-dry	2000			
Aroclor 1254	205000		41100	µg/Kg-dry	2000			
Aroclor 1260	ND		41100	µg/Kg-dry	2000			
Surr: Decachlorobiphenyl	00.0	*	52-115	%REC	2000			
Surr: Tetrachloro-m-xylene	00.0	*	39-125	%REC	2000			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M - Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10488

Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-CGP2-FSO
<b>Lab Order:</b>	9909001	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/31/99 3:32:00 PM
<b>Lab ID:</b>	9909001-08A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	10.40

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyte
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		405000	µg/Kg-dry	20000	9/20/99 10:15:26 PM	HP68902B_990915A	RJS
Aroclor 1221	ND		809000	µg/Kg-dry	20000			
Aroclor 1232	ND		405000	µg/Kg-dry	20000			
Aroclor 1242	2410000		405000	µg/Kg-dry	20000			
Aroclor 1248	ND		405000	µg/Kg-dry	20000			
Aroclor 1254	1520000		405000	µg/Kg-dry	20000			
Aroclor 1260	ND		405000	µg/Kg-dry	20000			
Surr: Decachlorobiphenyl	00.0	*	52-115	%REC	20000			
Surr: Tetrachloro-m-xylene	00.0	*	39-125	%REC	20000			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-CGP2-HSO

Lab Order: 9909001

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/31/99 3:36:00 PM

Lab ID: 9909001-09A Sample Type: SAMP

Matrix: SOIL

% Moist: 8.26

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		1940000	µg/Kg-dry	1E+05	9/20/99 10:58:01 PM	HP68902B_990915A	RJS
Aroclor 1221	ND		3880000	µg/Kg-dry	1E+05			
Aroclor 1232	ND		1940000	µg/Kg-dry	1E+05			
Aroclor 1242	3570000		1940000	µg/Kg-dry	1E+05			
Aroclor 1248	ND		1940000	µg/Kg-dry	1E+05			
Aroclor 1254	3090000		1940000	µg/Kg-dry	1E+05			
Aroclor 1260	ND		1940000	µg/Kg-dry	1E+05			
Surr: Decachlorobiphenyl	00.0	*	52-115	%REC	1E+05			
Surr: Tetrachloro-m-xylene	00.0	*	39-125	%REC	1E+05			

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-CGP2-ISD
<b>Lab Order:</b>	9909001	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/31/99 3:45:00 PM
<b>Lab ID:</b>	9909001-10A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	9.02

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		1920000	µg/Kg-dry	1E+05	8/20/99 11:40:37 PM	HP68902B_990915A	RJS
Aroclor 1221	ND		3850000	µg/Kg-dry	1E+05			
Aroclor 1232	ND		1920000	µg/Kg-dry	1E+05			
Aroclor 1242	9620000		1920000	µg/Kg-dry	1E+05			
Aroclor 1248	ND		1920000	µg/Kg-dry	1E+05			
Aroclor 1254	2530000		1920000	µg/Kg-dry	1E+05			
Aroclor 1260	ND		1920000	µg/Kg-dry	1E+05			
Surr: Decachlorobiphenyl	00.0	*	52-115	%REC	1E+05			
Surr: Tetrachloro-m-xylene	00.0	*	39-125	%REC	1E+05			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM



**Ecology and Environment, Inc.**

**Laboratory Results**

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-CGP1-FSD

Lab Order: 9909001

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/31/99 4:34:00 PM

Lab ID: 9909001-15A Sample Type: SAMP

Matrix: SOIL

% Moist: 3.81

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		390000	µg/Kg-dry	20000	9/21/99 12:23:13 AM	HP68902B_990915A	RJS
Aroclor 1221	ND		779000	µg/Kg-dry	20000			
Aroclor 1232	ND		390000	µg/Kg-dry	20000			
Aroclor 1242	1840000		390000	µg/Kg-dry	20000			
Aroclor 1248	ND		390000	µg/Kg-dry	20000			
Aroclor 1254	883000		390000	µg/Kg-dry	20000			
Aroclor 1260	ND		390000	µg/Kg-dry	20000			
Surr: Decachlorobiphenyl	00.0	*	52-115	%REC	20000			
Surr: Tetrachloro-m-xylene	00.0	*	39-125	%REC	20000			

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/28/99 2:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office **Client Sample ID:** LR-CGP2-BSO  
**Lab Order:** 9909001 **Alt. Client ID:**  
**Project:** Luzerne Road **Collection Date:** 8/31/99 3:11:00 PM  
**Lab ID:** 9909001-06A **Sample Type:** SAMP **Matrix:** SOIL **% Moist:** 11.80

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyte
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TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN  
1\_LK\_TOC\_S

Total Organic Carbon	8740		2180	mg/Kg-dry	1	9/7/99	TOC 5000A_990907A	DMR
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**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 9/22/99 4:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086-

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office      Client Sample ID: LR-CGP2-DSO  
Lab Order: 9909001      Alt. Client ID:  
Project: Luzerne Road      Collection Date: 8/31/99 3:21:00 PM  
Lab ID: 9909001-07A      Sample Type: SAMP      Matrix: SOIL      % Moist: 13.10

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN

1\_LK\_TOC\_S

Total Organic Carbon	ND		2270	mg/Kg-dry	1	9/7/99	TOC 5000A_990907A	DMR
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Definitions: ND - Not Detected at the Reporting Limit      \* - Recovery outside limits      M -Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits      R - RPD outside recovery limits      Q - Qualifier  
B - Analyte detected in the associated Method Blank      E - Value above quantitation range      Limit - Reporting Limit  
H - Value exceeds Maximum Contaminant Level      Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/22/99 4:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 1048

Phone: (716) 685-8080

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<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-CGP2-FSO				
<b>Lab Order:</b>	9909001	<b>Alt. Client ID:</b>					
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	8/31/99 3:32:00 PM				
<b>Lab ID:</b>	9909001-08A	<b>Sample Type:</b>	SAMP	<b>Matrix:</b>	SOIL	<b>% Moist:</b>	10.40

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Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analy
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**TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN  
1\_LK\_TOC\_S**

Total Organic Carbon	11600		2090	mg/Kg-dry	1	9/7/99	TOC 5000A_990907A	DMR
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<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

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LIMS Version #: 3.1.1.0Dev - 9/22/99 4:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-CGP2-HSO

Lab Order: 9909001

Alt. Client ID:

Project: Luzerne Road

Collection Date: 8/31/99 3:36:00 PM

Lab ID: 9909001-09A Sample Type: SAMP

Matrix: SOIL

% Moist: 8.26

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN

#### 1\_LK\_TOC\_S

Total Organic Carbon	13300		1990	mg/Kg-dry	1	9/7/99	TOC 5000A_990907A	DMR
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Definitions: ND - Not Detected at the Reporting Limit \* - Recovery outside limits M -Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 9/22/99 4:00:00 PM





**PCB Landfill Cell Subsurface Soil COD and Oil/Grease**





**CASE NARRATIVE**

COMPANY: Ecology & Environment  
9909001  
SUBMISSION #: 9909000092

E&E samples were collected on 08/31/99 and received at CAS on 09/08/99 in good condition.

**INORGANIC ANALYSIS**

Four soil samples were analyzed for COD by method 410.4 and Grease and Oil by method 9071A.

Site specific QC was not requested for these samples. All Blank Spike recoveries were within limits.

No other analytical or QC problems were encountered with these analyses.

0001 516





Effective 04/01/96

**CAS LIST OF QUALIFIERS**

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits.  
(Flag the entire batch - Inorganic analysis only)
- \* - Duplicate analysis not within control limits.  
(Flag the entire batch - Inorganic analysis only)  
  
- Also used to qualify Organics QC data outside limits.
- D - Spike diluted out.
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

**CAS Lab ID # for State Certifications**

NY ID # in Rochester:	10145	NJ ID # in Rochester:	73004
CT ID # in Rochester:	PH0556	RI ID # in Rochester:	158
MA ID # in Rochester:	M-NY032	NH ID # in Rochester:	294198-A
OH EPA # in Rochester:	VAP	AIHA # in Rochester:	7889

518

0002A

**COLUMBIA ANALYTICAL SERVICES**

Reported: 09/27/99

Ecology and Environment  
Project Reference: 9909001  
Client Sample ID : 9909001-06A

Date Sampled : 08/31/99  
Date Received: 09/08/99

Order #: 322632  
Submission #: 9909000092

Sample Matrix: SOIL/SE

ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANAL DILUTIO
<b>SUB CONTRACTED ANALYSIS</b>					
PERCENT SOLIDS *	1.0	88.2	%	09/08/99	1.0
<b>WET CHEMISTRY</b>					
CHEMICAL OXYGEN DEMAND	100	12200	MG/KG	09/22/99	1.0
OIL AND GREASE	500	567 U	MG/KG	09/20/99	1.0

0006

523

COLUMBIA ANALYTICAL SERVICES

Reported: 09/27/99

Ecology and Environment  
Project Reference: 9909001  
Client Sample ID : 9909001-07A

Date Sampled : 08/31/99                      Order #: 322633                      Sample Matrix: SOIL/SEDIMENT  
Date Received: 09/08/99                      Submission #:9909000092

ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANALYTICAL DILUTION
<b>SUB CONTRACTED ANALYSIS</b>					
PERCENT SOLIDS *	1.0	86.9	%	09/08/99	1.0
<b>WET CHEMISTRY</b>					
CHEMICAL OXYGEN DEMAND	100	15400	MG/KG	09/20/99	1.0
OIL AND GREASE	500	1600	MG/KG	09/20/99	1.0

0007 524

COLUMBIA ANALYTICAL SERVICES

Reported: 09/27/99

Ecology and Environment  
Project Reference: 9909001  
Client Sample ID : 9909001-08A

Date Sampled : 08/31/99  
Date Received: 09/08/99

Order #: 322634  
Submission #: 9909000092

Sample Matrix: SOIL/SE

ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANAL DILUTION
<b>SUB CONTRACTED ANALYSIS</b>					
PERCENT SOLIDS *	1.0	89.6	%	09/08/99	1.0
<b>WET CHEMISTRY</b>					
CHEMICAL OXYGEN DEMAND	100	28000	MG/KG	09/22/99	1.0
OIL AND GREASE	500	2300	MG/KG	09/20/99	1.0

525

0008

**COLUMBIA ANALYTICAL SERVICES**

Reported: 09/27/99

Ecology and Environment  
Project Reference: 9909001  
Client Sample ID : 9909001-09A

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Date Sampled : 08/31/99                      Order #: 322635                      Sample Matrix: SOIL/SEDIMENT  
Date Received: 09/08/99                      Submission #: 9909000092

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ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANALYTIC DILUTIO
<b>SUB CONTRACTED ANALYSIS</b>					
PERCENT SOLIDS *	1.0	91.7	%	09/08/99	1.0
<b>WET CHEMISTRY</b>					
CHEMICAL OXYGEN DEMAND	100	38400	MG/KG	09/22/99	1.0
OIL AND GREASE	500	14600	MG/KG	09/20/99	1.0

526

0009







**March 2001 On-Site Subsurface Soil Method 8082 Data**  
**Note: This data was generated by NYSDEC's Laboratory**



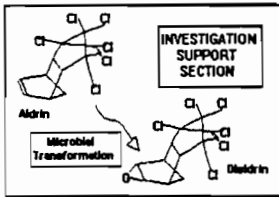
NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF ENVIRONMENTAL REMEDIATION

LABORATORY CASE NARRATIVE

Site Name: Luzerne Road

SDG: 087-01, 089-02, 093-01

The aroclor pattern in the water samples most closely resembles Aroclor 1016 and was therefore quantitated as 1016. Dichloro and trichloro congeners were present in the pattern, while the tetrachloro and pentachloro congeners (that are present in Aroclor 1242, 1248 and 1254) were missing. This probably occurred because the heavier congeners are less soluble in water. The quantitations should be considered estimates. A dilution could not be run on water samples LR-VRS-WO-55, LR-MW25-WO, LR-MW-4S-WO, LR-MW-71-WO, and LR-MW-8S-WO. These are flagged as estimates. The soil samples that showed very high levels were also not diluted and rerun. These are flagged as estimates.



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W210-CC**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-04 1/2000

Sample wt/vol: 4.27 (g/ml) G

Lab File ID: 01G0515A.D

% Moisture: 8 decanted: (Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

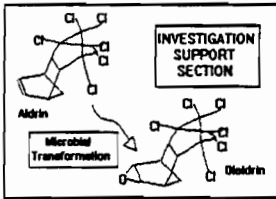
Dilution Factor: 2000.0

GPC Cleanup: (Y/N) N pH:         

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
12674-11-2	Aroclor 1016		100000	U
11104-28-2	Aroclor 1221		100000	U
11141-16-5	Aroclor 1232		100000	U
53469-21-9	Aroclor 1242		100000	U
12672-29-6	Aroclor 1248		1600000	D
11097-69-1	Aroclor 1254		100000	U
11096-82-5	Aroclor 1260		100000	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W210-CD**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-05 1/2000

Sample wt/vol: 4.33 (g/ml) G

Lab File ID: 01G0516A.D

% Moisture: 6 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

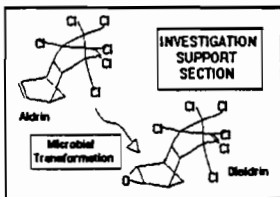
Dilution Factor: 2000.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		98000	U
11104-28-2	Aroclor 1221		98000	U
11141-16-5	Aroclor 1232		98000	U
53469-21-9	Aroclor 1242		98000	U
12672-29-6	Aroclor 1248		1600000	D
11097-69-1	Aroclor 1254		98000	U
11096-82-5	Aroclor 1260		98000	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

LR-W210-CE

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-06 1/20

Sample wt/vol: 4.17 (g/ml) G

Lab File ID: 01G0490A.D

% Moisture: 7 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/12/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/19/01

Injection Volume: 2.0 (uL)

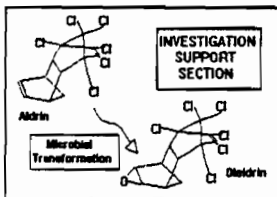
Dilution Factor: 20.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
12674-11-2	Aroclor 1016		1000	U
11104-28-2	Aroclor 1221		1000	U
11141-16-5	Aroclor 1232		1000	U
53469-21-9	Aroclor 1242		1000	U
12672-29-6	Aroclor 1248		16000	D
11097-69-1	Aroclor 1254		1000	U
11096-82-5	Aroclor 1260		1000	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W210-CF**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-07

Sample wt/vol: 4.52 (g/ml) G

Lab File ID: 01G0439A.D

% Moisture: 12 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/12/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/13/01

Injection Volume: 2.0 (uL)

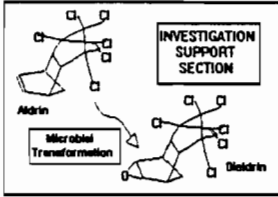
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
12674-11-2	Aroclor 1016		50	U
11104-28-2	Aroclor 1221		50	U
11141-16-5	Aroclor 1232		50	U
53469-21-9	Aroclor 1242		50	U
12672-29-6	Aroclor 1248		440	
11097-69-1	Aroclor 1254		50	U
11096-82-5	Aroclor 1260		50	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W310-CB-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-09

Sample wt/vol: 4.06 (g/ml) G

Lab File ID: 01G0383A.D

% Moisture: 5 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/07/01

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

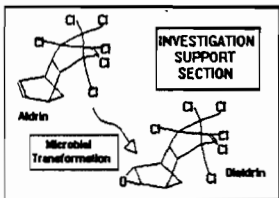
GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		52	U
11104-28-2	Aroclor 1221		52	U
11141-16-5	Aroclor 1232		52	U
53469-21-9	Aroclor 1242		52	U
12672-29-6	Aroclor 1248		1000	
11097-69-1	Aroclor 1254		52	U
11096-82-5	Aroclor 1260		52	U





NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W310-CC-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-10

Sample wt/vol: 4.34 (g/ml) G

Lab File ID: 01G0384A.D

% Moisture: 4 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/07/01

Injection Volume: 2.0 (uL)

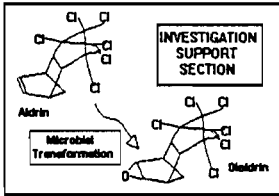
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		48	U
11104-28-2	Aroclor 1221		48	U
11141-16-5	Aroclor 1232		48	U
53469-21-9	Aroclor 1242		48	U
12672-29-6	Aroclor 1248		150	
11097-69-1	Aroclor 1254		48	U
11096-82-5	Aroclor 1260		48	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

LR-W310C~~A~~-SO  
 D

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-13

Sample wt/vol: 4.22 (g/ml) G

Lab File ID: 01G0396A.D

% Moisture: 9 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/07/01

Injection Volume: 2.0 (uL)

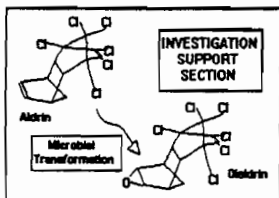
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		52	U
11104-28-2	Aroclor 1221		52	U
11141-16-5	Aroclor 1232		52	U
53469-21-9	Aroclor 1242		52	U
12672-29-6	Aroclor 1248		52	U
11097-69-1	Aroclor 1254		52	U
11096-82-5	Aroclor 1260		52	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

LR-W312N

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-22

Sample wt/vol: 4.14 (g/ml) G

Lab File ID: 01G0398A.D

% Moisture: 3 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/08/01

Injection Volume: 2.0 (uL)

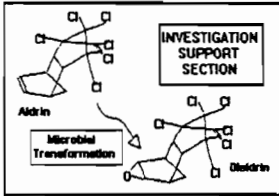
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		50	U
11104-28-2	Aroclor 1221		50	U
11141-16-5	Aroclor 1232		50	U
53469-21-9	Aroclor 1242		50	U
12672-29-6	Aroclor 1248		1000	E
11097-69-1	Aroclor 1254		50	U
11096-82-5	Aroclor 1260		50	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W312E**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-23

Sample wt/vol: 4.51 (g/ml) G

Lab File ID: 01G0393A.D

% Moisture: 4 decanted: (Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/07/01

Injection Volume: 2.0 (uL)

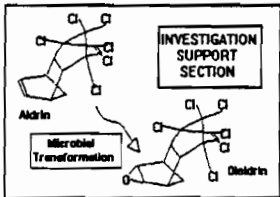
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		46	U
11104-28-2	Aroclor 1221		46	U
11141-16-5	Aroclor 1232		46	U
53469-21-9	Aroclor 1242		46	U
12672-29-6	Aroclor 1248		190	
11097-69-1	Aroclor 1254		46	U
11096-82-5	Aroclor 1260		46	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W312S**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-24

Sample wt/vol: 4.65 (g/ml) G

Lab File ID: 01G0394A.D

% Moisture: 13 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/07/01

Injection Volume: 2.0 (uL)

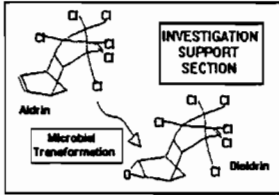
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		49	U
11104-28-2	Aroclor 1221		49	U
11141-16-5	Aroclor 1232		49	U
53469-21-9	Aroclor 1242		49	U
12672-29-6	Aroclor 1248		49	U
11097-69-1	Aroclor 1254		49	U
11096-82-5	Aroclor 1260		49	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W312W**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-25

Sample wt/vol: 4.22 (g/ml) G

Lab File ID: 01G0395A.D

% Moisture: 4 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/07/01

Injection Volume: 2.0 (uL)

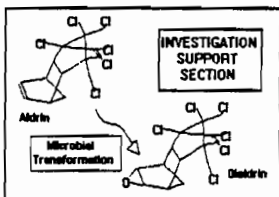
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor 1016	49	U
11104-28-2	Aroclor 1221	49	U
11141-16-5	Aroclor 1232	49	U
53469-21-9	Aroclor 1242	49	U
12672-29-6	Aroclor 1248	100	
11097-69-1	Aroclor 1254	49	U
11096-82-5	Aroclor 1260	49	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W412W**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-26

Sample wt/vol: 4.58 (g/ml) G

Lab File ID: 01G0407A.D

% Moisture: 6 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/10/01

Injection Volume: 2.0 (uL)

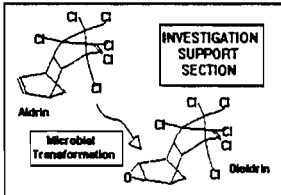
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		46	U
11104-28-2	Aroclor 1221		46	U
11141-16-5	Aroclor 1232		46	U
53469-21-9	Aroclor 1242		46	U
12672-29-6	Aroclor 1248		130	
11097-69-1	Aroclor 1254		46	U
11096-82-5	Aroclor 1260		46	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W412SD**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-27

Sample wt/vol: 4.31 (g/ml) G

Lab File ID: 01G0408A.D

% Moisture: 8 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/10/01

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

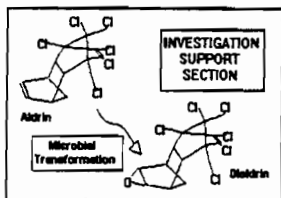
GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		50	U
11104-28-2	Aroclor 1221		50	U
11141-16-5	Aroclor 1232		50	U
53469-21-9	Aroclor 1242		50	U
12672-29-6	Aroclor 1248		50	U
11097-69-1	Aroclor 1254		50	U
11096-82-5	Aroclor 1260		50	U





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FIELD SAMPLE ID:

LR-W412N

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-28 1/20

Sample wt/vol: 4.34 (g/ml) G

Lab File ID: 01G0495A.D

% Moisture: 4 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/19/01

Injection Volume: 2.0 (uL)

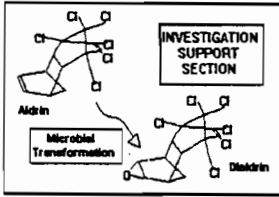
Dilution Factor: 20.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		960	U
11104-28-2	Aroclor 1221		960	U
11141-16-5	Aroclor 1232		960	U
53469-21-9	Aroclor 1242		960	U
12672-29-6	Aroclor 1248		25000	E D
11097-69-1	Aroclor 1254		960	U
11096-82-5	Aroclor 1260		960	U



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FIELD SAMPLE ID:

**LR-210NA-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-29 1/100

Sample wt/vol: 4.13 (g/ml) G

Lab File ID: 01G0496A.D

% Moisture: 6 decanted: (Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/19/01

Injection Volume: 2.0 (uL)

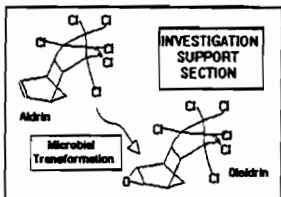
Dilution Factor: 100.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		5200	U
11104-28-2	Aroclor 1221		5200	U
11141-16-5	Aroclor 1232		5200	U
53469-21-9	Aroclor 1242		5200	U
12672-29-6	Aroclor 1248		95000	D
11097-69-1	Aroclor 1254		5200	U
11096-82-5	Aroclor 1260		5200	U



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FIELD SAMPLE ID:

**LR-210-NB-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-30 1/200

Sample wt/vol: 4.48 (g/ml) G

Lab File ID: 01G0520A.D

% Moisture: 8 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

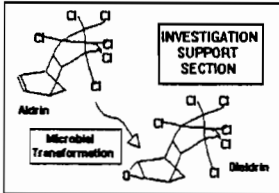
Dilution Factor: 200.0

GPC Cleanup: (Y/N) N pH:         

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		9700	U
11104-28-2	Aroclor 1221		9700	U
11141-16-5	Aroclor 1232		9700	U
53469-21-9	Aroclor 1242		9700	U
12672-29-6	Aroclor 1248		110000	D
11097-69-1	Aroclor 1254		9700	U
11096-82-5	Aroclor 1260		9700	U



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FIELD SAMPLE ID:

**LR-W210NC-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-31 1/200

Sample wt/vol: 4.21 (g/ml) G

Lab File ID: 01G0521A.D

% Moisture: 3 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/12/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

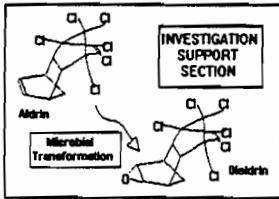
Dilution Factor: 200.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
12674-11-2	Aroclor 1016		9800	U
11104-28-2	Aroclor 1221		9800	U
11141-16-5	Aroclor 1232		9800	U
53469-21-9	Aroclor 1242		9800	U
12672-29-6	Aroclor 1248		130000	D
11097-69-1	Aroclor 1254		9800	U
11096-82-5	Aroclor 1260		9800	U



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FIELD SAMPLE ID:

**LR-W210ND-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-32 1/2000

Sample wt/vol: 4.67 (g/ml) G

Lab File ID: 01G0522A.D

% Moisture: 4 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/12/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

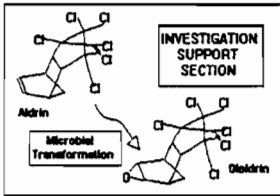
Dilution Factor: 2000.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		89000	U
11104-28-2	Aroclor 1221		89000	U
11141-16-5	Aroclor 1232		89000	U
53469-21-9	Aroclor 1242		89000	U
12672-29-6	Aroclor 1248		1000000	D
11097-69-1	Aroclor 1254		89000	U
11096-82-5	Aroclor 1260		89000	U



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FIELD SAMPLE ID:

**LR-W210NE-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-33

Sample wt/vol: 4.15 (g/ml) G

Lab File ID: 01G0461A.D

% Moisture: 10 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/01

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 04/18/01

Injection Volume: 2.0 (uL)

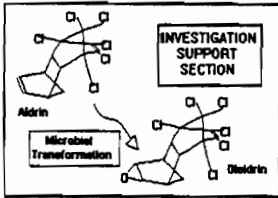
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		67	U
11104-28-2	Aroclor 1221		67	U
11141-16-5	Aroclor 1232		67	U
53469-21-9	Aroclor 1242		67	U
12672-29-6	Aroclor 1248		320	
11097-69-1	Aroclor 1254		67	U
11096-82-5	Aroclor 1260		67	U



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FIELD SAMPLE ID:

**LR-W210NF-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501 093-34

Sample wt/vol: 4.6 (g/ml) G

Lab File ID: 01G0464A.D

% Moisture: 7 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/18/01

Injection Volume: 2.0 (uL)

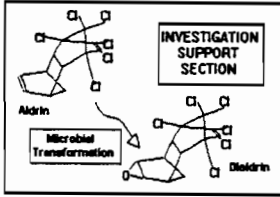
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		230	
11104-28-2	Aroclor 1221		47	U
11141-16-5	Aroclor 1232		47	U
53469-21-9	Aroclor 1242		47	U
12672-29-6	Aroclor 1248		290	
11097-69-1	Aroclor 1254		47	U
11096-82-5	Aroclor 1260		47	U



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FIELD SAMPLE ID:

LR-W210SA-SO

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-35 1/100

Sample wt/vol: 4.24 (g/ml) G

Lab File ID: 01G0501A.D

% Moisture: 19 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

Dilution Factor: 100.0

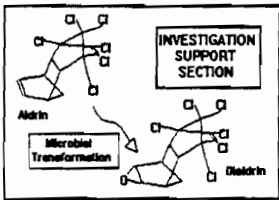
GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		5800	U
11104-28-2	Aroclor 1221		5800	U
11141-16-5	Aroclor 1232		5800	U
53469-21-9	Aroclor 1242		5800	U
12672-29-6	Aroclor 1248		77000	D
11097-69-1	Aroclor 1254		5800	U
11096-82-5	Aroclor 1260		5800	U





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FIELD SAMPLE ID:

**LR-W210SB-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-36 1/2000

Sample wt/vol: 4.41 (g/ml) G

Lab File ID: 01G0523A.D

% Moisture: 10 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

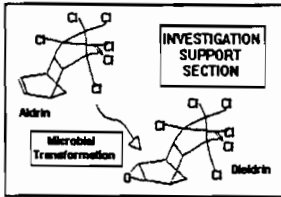
Dilution Factor: 20000.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		9800000	D
11104-28-2	Aroclor 1221		1000000	U
11141-16-5	Aroclor 1232		1000000	U
53469-21-9	Aroclor 1242		1000000	U
12672-29-6	Aroclor 1248		7400000	D
11097-69-1	Aroclor 1254		1000000	U
11096-82-5	Aroclor 1260		1000000	U



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FIELD SAMPLE ID:

LR-W210SC-SO

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-37 1/100

Sample wt/vol: 4.06 (g/ml) G

Lab File ID: 01G0504A.D

% Moisture: 2 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/12/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

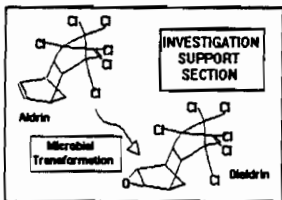
Dilution Factor: 100.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		85000	D
11104-28-2	Aroclor 1221		5000	U
11141-16-5	Aroclor 1232		5000	U
53469-21-9	Aroclor 1242		5000	U
12672-29-6	Aroclor 1248		120000	E D
11097-69-1	Aroclor 1254		5000	U
11096-82-5	Aroclor 1260		5000	U



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FIELD SAMPLE ID:

**LR-W210SD-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-38 1/100

Sample wt/vol: 4.2 (g/ml) G

Lab File ID: 01G0505A.D

% Moisture: 7 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/12/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

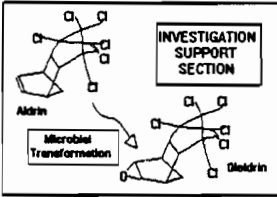
Dilution Factor: 100.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		5100	U
11104-28-2	Aroclor 1221		5100	U
11141-16-5	Aroclor 1232		5100	U
53469-21-9	Aroclor 1242		5100	U
12672-29-6	Aroclor 1248		93000	D
11097-69-1	Aroclor 1254		5100	U
11096-82-5	Aroclor 1260		5100	U



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FIELD SAMPLE ID:

**LR-W210SE-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-39 1/100

Sample wt/vol: 4.14 (g/ml) G

Lab File ID: 01G0506A.D

% Moisture: 5 decanted: (Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/01

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

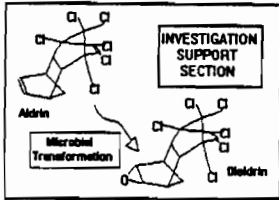
Dilution Factor: 100.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		6400	U
11104-28-2	Aroclor 1221		6400	U
11141-16-5	Aroclor 1232		6400	U
53469-21-9	Aroclor 1242		6400	U
12672-29-6	Aroclor 1248		130000	E D
11097-69-1	Aroclor 1254		6400	U
11096-82-5	Aroclor 1260		6400	U



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FIELD SAMPLE ID:

**LR-W210SF-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-40

Sample wt/vol: 4.47 (g/ml) G

Lab File ID: 01G0470A.D

% Moisture: 4 decanted: (Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/01

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 04/18/01

Injection Volume: 2.0 (uL)

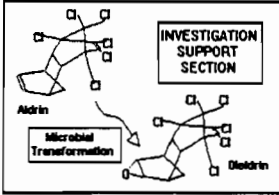
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		58	U
11104-28-2	Aroclor 1221		58	U
11141-16-5	Aroclor 1232		58	U
53469-21-9	Aroclor 1242		58	U
12672-29-6	Aroclor 1248		240	
11097-69-1	Aroclor 1254		58	U
11096-82-5	Aroclor 1260		58	U



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FIELD SAMPLE ID:

**LR-W310SA-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-41

Sample wt/vol: 4.22 (g/ml) G

Lab File ID: 01G0415A.D

% Moisture: 4 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/10/01

Injection Volume: 2.0 (uL)

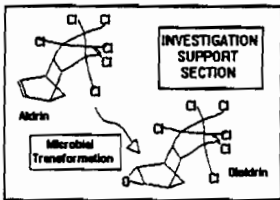
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		49	U
11104-28-2	Aroclor 1221		49	U
11141-16-5	Aroclor 1232		49	U
53469-21-9	Aroclor 1242		49	U
12672-29-6	Aroclor 1248		810	
11097-69-1	Aroclor 1254		49	U
11096-82-5	Aroclor 1260		49	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W310SB-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-42

Sample wt/vol: 4.09 (g/ml) G

Lab File ID: 01G0416A.D

% Moisture: 4 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/10/01

Injection Volume: 2.0 (uL)

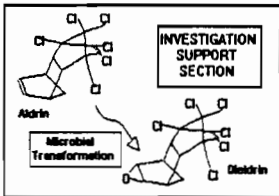
Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		51	U
11104-28-2	Aroclor 1221		51	U
11141-16-5	Aroclor 1232		51	U
53469-21-9	Aroclor 1242		51	U
12672-29-6	Aroclor 1248		220	
11097-69-1	Aroclor 1254		51	U
11096-82-5	Aroclor 1260		51	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W310EA-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-47

Sample wt/vol: 4.37 (g/ml) G

Lab File ID: 01G0417A.D

% Moisture: 6 decanted: (Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/11/01

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

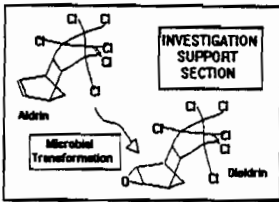
GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		49	U
11104-28-2	Aroclor 1221		49	U
11141-16-5	Aroclor 1232		49	U
53469-21-9	Aroclor 1242		49	U
12672-29-6	Aroclor 1248		590	
11097-69-1	Aroclor 1254		49	U
11096-82-5	Aroclor 1260		49	U





NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W310EB-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-48

Sample wt/vol: 4.31 (g/ml) G

Lab File ID: 01G0418A.D

% Moisture: 8 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/11/01

Injection Volume: 2.0 (uL)

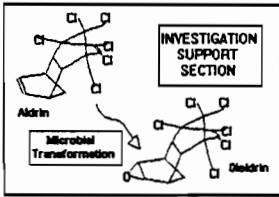
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		50	U
11104-28-2	Aroclor 1221		50	U
11141-16-5	Aroclor 1232		50	U
53469-21-9	Aroclor 1242		50	U
12672-29-6	Aroclor 1248		250	
11097-69-1	Aroclor 1254		50	U
11096-82-5	Aroclor 1260		50	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

LR-W210EA-SO

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-53 1/10

Sample wt/vol: 4.21 (g/ml) G

Lab File ID: 01G0507A.D

% Moisture: 31 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

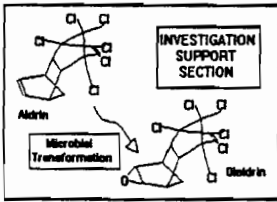
Dilution Factor: 10.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		7100	D
11104-28-2	Aroclor 1221		690	U
11141-16-5	Aroclor 1232		690	U
53469-21-9	Aroclor 1242		690	U
12672-29-6	Aroclor 1248		11000	D
11097-69-1	Aroclor 1254		690	U
11096-82-5	Aroclor 1260		690	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W210EB-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-54

Sample wt/vol: 4.27 (g/ml) G

Lab File ID: 01G0423A.D

% Moisture: 2 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/11/01

Injection Volume: 2.0 (uL)

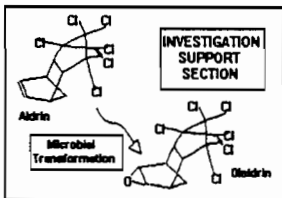
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		48	U
11104-28-2	Aroclor 1221		48	U
11141-16-5	Aroclor 1232		48	U
53469-21-9	Aroclor 1242		48	U
12672-29-6	Aroclor 1248		640	
11097-69-1	Aroclor 1254		48	U
11096-82-5	Aroclor 1260		48	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W310NA-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-59 1/10

Sample wt/vol: 4.24 (g/ml) G

Lab File ID: 01G0508A.D

% Moisture: 11 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

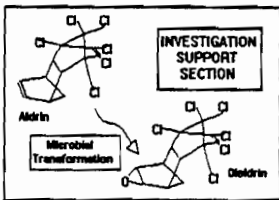
Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:         

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		530	U
11104-28-2	Aroclor 1221		530	U
11141-16-5	Aroclor 1232		530	U
53469-21-9	Aroclor 1242		530	U
12672-29-6	Aroclor 1248		5500	D
11097-69-1	Aroclor 1254		530	U
11096-82-5	Aroclor 1260		530	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W310NB-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-60

Sample wt/vol: 4.34 (g/ml) G

Lab File ID: 01G0426A.D

% Moisture: 5 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/11/01

Injection Volume: 2.0 (uL)

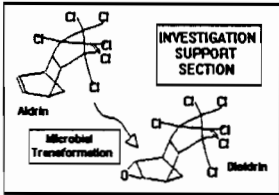
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		200	
11104-28-2	Aroclor 1221		49	U
11141-16-5	Aroclor 1232		49	U
53469-21-9	Aroclor 1242		49	U
12672-29-6	Aroclor 1248		49	U
11097-69-1	Aroclor 1254		49	U
11096-82-5	Aroclor 1260		49	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W310WA-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-65 1/10

Sample wt/vol: 4.12 (g/ml) G

Lab File ID: 01G0509A.D

% Moisture: 29 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

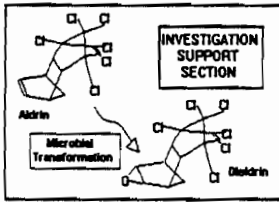
Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:         

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
12674-11-2	Aroclor 1016		680	U
11104-28-2	Aroclor 1221		680	U
11141-16-5	Aroclor 1232		680	U
53469-21-9	Aroclor 1242		680	U
12672-29-6	Aroclor 1248		8000	D
11097-69-1	Aroclor 1254		680	U
11096-82-5	Aroclor 1260		680	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W310WB-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-66 1/3.33

Sample wt/vol: 4.14 (g/ml) G

Lab File ID: 01G0510A.D

% Moisture: 4 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/06/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

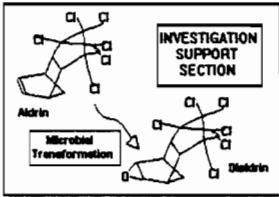
Dilution Factor: 3.3

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		170	U
11104-28-2	Aroclor 1221		170	U
11141-16-5	Aroclor 1232		170	U
53469-21-9	Aroclor 1242		170	U
12672-29-6	Aroclor 1248		1300	D
11097-69-1	Aroclor 1254		170	U
11096-82-5	Aroclor 1260		170	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

LR-W310WC-SO

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-67

Sample wt/vol: 4.14 (g/ml) G

Lab File ID: 01G0446A.D

% Moisture: 4 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/05/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/13/01

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

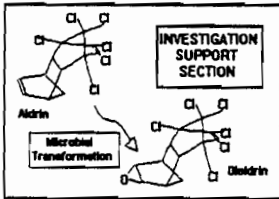
GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/Kg)	UG/KG	
12674-11-2	Aroclor 1016		50	U
11104-28-2	Aroclor 1221		50	U
11141-16-5	Aroclor 1232		50	U
53469-21-9	Aroclor 1242		50	U
12672-29-6	Aroclor 1248		250	
11097-69-1	Aroclor 1254		50	U
11096-82-5	Aroclor 1260		50	U





NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION

LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W310WD-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-68 1/10

Sample wt/vol: 4.7 (g/ml) G

Lab File ID: 01G0511A.D

% Moisture: 7 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/12/01

Concentrated Extract Volume: 4000 (uL)

Date Analyzed: 04/20/01

Injection Volume: 2.0 (uL)

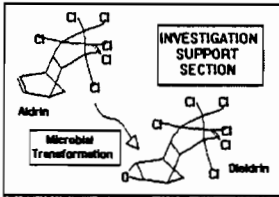
Dilution Factor: 10.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		460	U
11104-28-2	Aroclor 1221		460	U
11141-16-5	Aroclor 1232		460	U
53469-21-9	Aroclor 1242		460	U
12672-29-6	Aroclor 1248		7200	D
11097-69-1	Aroclor 1254		460	U
11096-82-5	Aroclor 1260		460	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W310WE-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-69

Sample wt/vol: 4.48 (g/ml) G

Lab File ID: 01G0473A.D

% Moisture: 7 decanted:(Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/01

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 04/19/01

Injection Volume: 2.0 (uL)

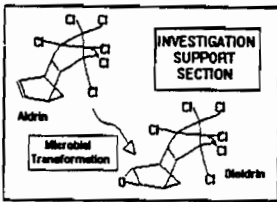
Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
12674-11-2	Aroclor 1016		60	U
11104-28-2	Aroclor 1221		60	U
11141-16-5	Aroclor 1232		60	U
53469-21-9	Aroclor 1242		60	U
12672-29-6	Aroclor 1248		190	
11097-69-1	Aroclor 1254		60	U
11096-82-5	Aroclor 1260		60	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 LABORATORY ANALYTICAL REPORT

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID:

**LR-W310WF-SO**

Site Name: LUZERNE ROAD

Site Code: 557010

SDG No.: 093-01

Matrix: (soil/water) SOIL

Lab Sample ID: 501-093-70

Sample wt/vol: 4.5 (g/ml) G

Lab File ID: 01G0476A.D

% Moisture: 6 decanted: (Y/N) N

Date Received: 04/03/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/01

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 04/19/01

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
12674-11-2	Aroclor 1016		59	U
11104-28-2	Aroclor 1221		59	U
11141-16-5	Aroclor 1232		59	U
53469-21-9	Aroclor 1242		59	U
12672-29-6	Aroclor 1248		59	U
11097-69-1	Aroclor 1254		59	U
11096-82-5	Aroclor 1260		59	U





**Sediment PCB Analysis by Method 8082 Data,  
and Sediment TOC Analysis Data**



# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086-

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-SEDII-ADD

Lab Order: 9909205

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/23/99

Lab ID: 9909205-08A Sample Type: SAMP

Matrix: SOIL

% Moist: 11.40

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN

#### 1\_LK\_TOC\_S

Total Organic Carbon	16600		2110	mg/Kg-dry	1	9/28/99	TOC 5000A_990928A	DMR
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Definitions:

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 10/14/99 6:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-SEDII-ADD
<b>Lab Order:</b>	9909205	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/23/99
<b>Lab ID:</b>	9909205-08A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	11.40

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**  
**1\_8082\_3550B\_S**

Aroclor 1016	ND		111	µg/Kg-dry	5	10/6/99 2:59:50 AM	HP58901A_991004A	RJS
Aroclor 1221	ND		222	µg/Kg-dry	5			
Aroclor 1232	ND		111	µg/Kg-dry	5			
Aroclor 1242	ND		111	µg/Kg-dry	5			
Aroclor 1248	ND		111	µg/Kg-dry	5			
Aroclor 1254	ND		111	µg/Kg-dry	5			
Aroclor 1260	82.4	J	111	µg/Kg-dry	5			
Surr: Decachlorobiphenyl	81.3		52-115	%REC	5			
Surr: Tetrachloro-m-xylene	76.2		39-125	%REC	5			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H <sub>c</sub> - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM





**Trip Blank VOC Data**



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRTB09AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909184

SAS No.:

SDG No.: LR175L

Matrix: (soil/water) WATER

Lab Sample ID: 34A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: J2075

Level: (low/med) LOW

Date Received: 09/22/99

% Moisture: not dec.

Date Analyzed: 09/27/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA

10/95

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRTB09AWT
-----------

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909184 SAS No.: \_\_\_\_\_ SDG No.: LR175L

Matrix: (soil/water) WATER Lab Sample ID: 34A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2075

Level: (low/med) LOW Date Received: 09/22/99

% Moisture: not dec. Date Analyzed: 09/27/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

T25AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909205

SAS No.:

SDG No.: MW1010

Matrix: (soil/water) WATER

Lab Sample ID: 07A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: J2097

Level: (low/med) LOW

Date Received: 09/24/99

% Moisture: not dec.

Date Analyzed: 09/28/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

FORM I VOA

10/95

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO

T25AWT
--------

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909205

SAS No.:

SDG No.: MW1010

Matrix: (soil/water) WATER

Lab Sample ID: 07A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: J2097

Level: (low/med) LOW

Date Received: 09/24/99

% Moisture: not dec.

Date Analyzed: 09/28/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRT30AWT

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909240 SAS No.: \_\_\_\_\_ SDG No.: LRMW1D

Matrix: (soil/water) WATER Lab Sample ID: 04A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2243

Level: (low/med) LOW Date Received: 09/29/99

% Moisture: not dec. Date Analyzed: 10/02/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

FORM I VOA

10/95





# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Project: Luzerne Road

Lab Order: 9908141

# Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

### Volatiles

A DB624 column from J&W that is 30 m long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1 packing, approximately 20 cm of Tenax, and approximately 10 cm of silica gel.

The pH of sample LR-S301-GWT was determined to be approximately 6 s.u.

No discrepancies were noted during the analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 17, 1999

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE  
LRS301GWT

Lab Name: E & E INC. Contract:  
 Lab Code: EANDE Case No.: 9908141 SAS No.: SDG No.: LRS301ASO  
 Matrix: (soil/water) WATER Lab Sample ID: 02A  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J1465  
 Level: (low/med) LOW Date Received: 08/14/99  
 % Moisture: not dec. Date Analyzed: 08/19/99  
 GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA

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1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRS301GWT

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908141 SAS No.: \_\_\_\_\_ SDG No.: LRS301ASO

Matrix: (soil/water) WATER Lab Sample ID: 02A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J1465

Level: (low/med) LOW Date Received: 08/14/99

% Moisture: not dec. Date Analyzed: 08/19/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRTB12AWT

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909199 SAS No.: \_\_\_\_\_ SDG No.: LR1063

Matrix: (soil/water) WATER Lab Sample ID: 29A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2093

Level: (low/med) LOW Date Received: 09/23/99

% Moisture: not dec. Date Analyzed: 09/27/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRTB12AWT
-----------

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909199 SAS No.: \_\_\_\_\_ SDG No.: LR1063

Matrix: (soil/water) WATER Lab Sample ID: 29A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2093

Level: (low/med) LOW Date Received: 09/23/99

% Moisture: not dec. Date Analyzed: 09/27/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRTB22AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909199

SAS No.:

SDG No.: LR1063

Matrix: (soil/water) WATER

Lab Sample ID: 20A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: J2088

Level: (low/med) LOW

Date Received: 09/23/99

% Moisture: not dec.

Date Analyzed: 09/27/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRTB22AWT
-----------

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909199

SAS No.:

SDG No.: LR1063

Matrix: (soil/water) WATER

Lab Sample ID: 20A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: J2088

Level: (low/med) LOW

Date Received: 09/23/99

% Moisture: not dec.

Date Analyzed: 09/27/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRTB11AWT

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909184 SAS No.: \_\_\_\_\_ SDG No.: LR175L

Matrix: (soil/water) WATER Lab Sample ID: 37A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J2065

Level: (low/med) LOW Date Received: 09/22/99

% Moisture: not dec. Date Analyzed: 09/25/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U



1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRTB11AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909184

SAS No.:

SDG No.: LR175L

Matrix: (soil/water) WATER

Lab Sample ID: 37A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: J2065

Level: (low/med) LOW

Date Received: 09/22/99

% Moisture: not dec.

Date Analyzed: 09/25/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Project: Luzerne Rd.

Lab Order: 9908178

Laboratory Res

NYS ELAP ID#: 1048

## CASE NARRATIVE

### Volatiles

A DB624 column from J&W that is 30 m long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1 packing, approximately 20 cm of Tenax, and approximately 10 cm of silica gel.

The pH of sample LR-T102-AWT was determined to be approximately 6 s.u.

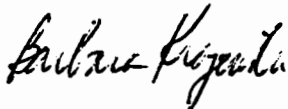
### PCB

The column used for analysis was an RTX-35, 30 meters long and 0.53 mm in diameter, with a 1.0 um film thickness.

A portion of the laboratory control sample was lost during concentration resulting in low recoveries. Recoveries were acceptable for the associated sample matrix spike/spike duplicate analysis. No corrective action was taken.

As per Method 8082, a multipoint calibration for Aroclors 1016 and 1260 was performed demonstrating linearity. Multipoint calibrations were also performed for Aroclors 1242 and 1254 since these Aroclors known to be of concern based on previous analysis from this site. Multipoint calibrations for each of the seven Aroclors were not required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 30, 1999

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRT102AWT

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908178 SAS No.: \_\_\_\_\_ SDG No.: LRE107ASO

Matrix: (soil/water) WATER Lab Sample ID: 07A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: J1492

Level: (low/med) LOW Date Received: 08/20/99

% Moisture: not dec. Date Analyzed: 08/24/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

FORM I VOA

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1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE 1

LRT102AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908178

SAS No.:

SDG No.: LRE107ASO

Matrix: (soil/water) WATER

Lab Sample ID: 07A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: J1492

Level: (low/med) LOW

Date Received: 08/20/99

% Moisture: not dec.

Date Analyzed: 08/24/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

## Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Project: Luzerne Road

Lab Order: 9908217

## Laboratory Results

NYS ELAP ID#: 10486

### CASE NARRATIVE

#### VOLATILES

A DB624 column from J&W that is 30 m long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1 packing, approximately 20 cm of Tenax, and approximately 10 cm of silica gel.

Results of the spiked blank analysis are included in this report as a measure of quality control. Recoveries of trichloroethene, benzene, and toluene were slightly high for the soil matrix spiked blank. This discrepancy was not noted until after hold time had expired.

The pH of samples LR-T103-AWT and LR-T104-AWT was determined to be approximately 2 s.u.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 27, 1999

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE '99

LRT103AWT

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908217 SAS No.: \_\_\_\_\_ SDG No.: LRT103AWT

Matrix: (soil/water) WATER Lab Sample ID: 01A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2285

Level: (low/med) LOW Date Received: 08/25/99

% Moisture: not dec. Date Analyzed: 09/01/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA

10/9

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRT103AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908217

SAS No.:

SDG No.: LRT103AWT

Matrix: (soil/water) WATER

Lab Sample ID: 01A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F2285

Level: (low/med) LOW

Date Received: 08/25/99

% Moisture: not dec.

Date Analyzed: 09/01/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO

LRT104AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908217

SAS No.:

SDG No.: LRT103AWT

Matrix: (soil/water) WATER

Lab Sample ID: 02A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F2289

Level: (low/med) LOW

Date Received: 08/25/99

% Moisture: not dec.

Date Analyzed: 09/01/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA

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1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRT104AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908217

SAS No.:

SDG No.: LRT103AWT

Matrix: (soil/water) WATER

Lab Sample ID: 02A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F2289

Level: (low/med) LOW

Date Received: 08/25/99

% Moisture: not dec.

Date Analyzed: 09/01/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Road

**Lab Order:** 9908260

# Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

### VOLATILES

A DB624 column from J&W that is 30 m long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1 pack, approximately 20 cm of Tenax, and approximately 10 cm of silica gel.

Results of the spiked blank analysis are included in this report as a measure of quality control.

The pH of sample LR-T105-AWT was determined to be approximately 6 s.u.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 28, 1999

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRT105AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908260

SAS No.:

SDG No.: LRW707JSO

Matrix: (soil/water) WATER

Lab Sample ID: 06A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F2345

Level: (low/med) LOW

Date Received: 08/30/99

% Moisture: not dec.

Date Analyzed: 09/03/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA

10/9

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO

LRT105AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908260

SAS No.:

SDG No.: LRW707JSO

Matrix: (soil/water) WATER

Lab Sample ID: 06A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F2345

Level: (low/med) LOW

Date Received: 08/30/99

% Moisture: not dec.

Date Analyzed: 09/03/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (

Number TICs found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

## Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Road

**Lab Order:** 9909012

## Laboratory Results

NYS ELAP ID#: 10486

## CASE NARRATIVE

### VOLATILES

A DB624 column from J&W that is 30 m long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1 packing, approximately 20 cm of Tenax, and approximately 10 cm of silica gel.

Results of the spiked blank analysis are included in this report as a measure of quality control.

The pH of sample LR-T106-AWT was determined to be approximately 6 s.u.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
September 30, 1999

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE N

LRT106AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909012

SAS No.:

SDG No.: LRT106AWT

Matrix: (soil/water) WATER

Lab Sample ID: 01A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F2346

Level: (low/med) LOW

Date Received: 09/02/99

% Moisture: not dec.

Date Analyzed: 09/03/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	5	J
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

FORM I VOA

10/9

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRT106AWT

Lab Name: E & E INC. Contract: \_\_\_\_\_  
 Lab Code: EANDE Case No.: 9909012 SAS No.: \_\_\_\_\_ SDG No.: LRT106AWT

Matrix: (soil/water) WATER Lab Sample ID: 01A  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2346  
 Level: (low/med) LOW Date Received: 09/02/99  
 % Moisture: not dec. Date Analyzed: 09/03/99  
 GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

# Ecology and Environment, Inc.

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Road

**Lab Order:** 9909042

## Laboratory Results

NYS ELAP ID#: 10480

## CASE NARRATIVE

### VOLATILES

A DB624 column from J&W that is 30 m long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1 approximately 20 cm of Tenax, and approximately 10 cm of silica gel.

Sample LR-T107-AWT was determined to be at a pH of approximately 6 s.u.

No discrepancies were noted during the analyses.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
October 4, 1999



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRT107AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909042

SAS No.:

SDG No.: LRMW45ASO

Matrix: (soil/water) WATER

Lab Sample ID: 03A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: J1782

Level: (low/med) LOW

Date Received: 09/04/99

% Moisture: not dec.

Date Analyzed: 09/11/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE M

LRT107AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909042

SAS No.:

SDG No.: LRMW45ASO

Matrix: (soil/water) WATER

Lab Sample ID: 03A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: J1782

Level: (low/med) LOW

Date Received: 09/04/99

% Moisture: not dec.

Date Analyzed: 09/11/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume:

Number TICs found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

**Ecology and Environment, Inc.**

Analytical Services Center  
Lancaster, New York 14086

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Project:** Luzerne Road

**Lab Order:** 9909071

**Laboratory Results**

NYS ELAP ID#: 10486

**CASE NARRATIVE**

**VOLATILES**

A DB624 column from J&W that is 30 m long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1 packing, approximately 20 cm of Tenax, and approximately 10 cm of silica gel.

Sample LR-T108-AWT was determined to be at a pH of approximately 6 s.u.

No discrepancies were noted during the analyses.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
October 4, 1999



1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRT108AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909071

SAS No.:

SDG No.: LRT108AWT

Matrix: (soil/water) WATER

Lab Sample ID: 01A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: J1816

Level: (low/med) LOW

Date Received: 09/09/99

% Moisture: not dec.

Date Analyzed: 09/14/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

LR-SS11R-AWT

Lab Name: ECOLOGY AND ENVIRONMENT, Contract:

Lab Code: EANDE Case No.: 9912143 SAS No.: SDG No.: S1ASO

Matrix: (soil/water) WATER Lab Sample ID: 9912143-31A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3889

Level: (low/med) LOW Date Received: 12/15/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 12/20/99

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
156-60-5-----	trans-1,2-Dichloroethene	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
156-59-2-----	cis-1,2-Dichloroethene	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

LR-SS11R-AWT
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Lab Name: ECOLOGY AND ENVIRONMENT, Contract:

Lab Code: EANDE Case No.: 9912143 SAS No.: SDG No.: S1ASO

Matrix: (soil/water) WATER Lab Sample ID: 9912143-31A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3889

Level: (low/med) LOW Date Received: 12/15/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 12/20/99

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

NYSDEC SAMPLE NO.

LR-SS11R-AWT

Lab Name: ECOLOGY AND ENVIRONMENT, Contract:

Lab Code: EANDE Case No.: 9912143 SAS No.: SDG No.: S1ASO

Matrix: (soil/water) WATER Lab Sample ID: 9912143-31A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3889

Level: (low/med) LOW Date Received: 12/15/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 12/20/99

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 2 CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-19-6	NONANAL	26.08	6	NJ
2. 112-31-2	DECANAL	27.88	6	NJ
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRT103AWT

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9908217 SAS No.: \_\_\_\_\_ SDG No.: LRT103AWT

Matrix: (soil/water) WATER Lab Sample ID: 01A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2285

Level: (low/med) LOW Date Received: 08/25/99

% Moisture: not dec. Date Analyzed: 09/01/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

FORM I VOA

10/95



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LRT104AWT

Lab Name: E & E INC. Contract: \_\_\_\_\_  
 Lab Code: EANDE Case No.: 9908217 SAS No.: \_\_\_\_\_ SDG No.: LRT103AWT

Matrix: (soil/water) WATER Lab Sample ID: 02A  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2289  
 Level: (low/med) LOW Date Received: 08/25/99  
 % Moisture: not dec. Date Analyzed: 09/01/99  
 GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LRT104AWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9908217

SAS No.:

SDG No.: LRT103AWT

Matrix: (soil/water) WATER

Lab Sample ID: 02A

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F2289

Level: (low/med) LOW

Date Received: 08/25/99

% Moisture: not dec.

Date Analyzed: 09/01/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

**Residential Surface Soil Method 8082 Data  
(August/September 1999 Only)**











**Residential Subsurface Soil Method 8082 Data  
(August/September 1999 Only)**



# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-58ISI-BSD
<b>Lab Order:</b>	9909199	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/22/99
<b>Lab ID:</b>	9909199-21A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	6.38

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### PCB ANALYSIS BY METHOD 8082

#### 1\_8082\_3550B\_S

Aroclor 1016	ND		21.0	µg/Kg-dry	1	10/5/99 2:15:29 AM	HP58901A_991004A	RJS
Aroclor 1221	ND		42.1	µg/Kg-dry	1			
Aroclor 1232	ND		21.0	µg/Kg-dry	1			
Aroclor 1242	ND		21.0	µg/Kg-dry	1			
Aroclor 1248	ND		21.0	µg/Kg-dry	1			
Aroclor 1254	ND		21.0	µg/Kg-dry	1			
Aroclor 1260	ND		21.0	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	100.6		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	106.8		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H <sub>c</sub> - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-165L4-FSD
<b>Lab Order:</b>	9909199	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/22/99
<b>Lab ID:</b>	9909199-22A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	6.36

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		425	µg/Kg-dry	20	10/5/99 2:56:23 AM	HP58901A_991004A	RJS
Aroclor 1221	ND		851	µg/Kg-dry	20			
Aroclor 1232	ND		425	µg/Kg-dry	20			
Aroclor 1242	ND		425	µg/Kg-dry	20			
Aroclor 1248	ND		425	µg/Kg-dry	20			
Aroclor 1254	ND		425	µg/Kg-dry	20			
Aroclor 1260	ND		425	µg/Kg-dry	20			
Surr: Decachlorobiphenyl	diluted out		52-115	%REC	20			
Surr: Tetrachloro-m-xylene	diluted out		39-125	%REC	20			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	U - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-165L1-LSD
<b>Lab Order:</b>	9909199	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/22/99
<b>Lab ID:</b>	9909199-23A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	6.46

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		106	µg/Kg-dry	5	10/5/99 3:37:17 AM	HP58901A_991004A	RJS
Aroclor 1221	ND		213	µg/Kg-dry	5			
Aroclor 1232	ND		106	µg/Kg-dry	5			
Aroclor 1242	1420		106	µg/Kg-dry	5			
Aroclor 1248	ND		106	µg/Kg-dry	5			
Aroclor 1254	ND		106	µg/Kg-dry	5			
Aroclor 1260	ND		106	µg/Kg-dry	5			
Surr: Decachlorobiphenyl	124.4	*	52-115	%REC	5			
Surr: Tetrachloro-m-xylene	114.6		39-125	%REC	5			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H <sub>1</sub> - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office **Client Sample ID:** LR-65RI1-HSD  
**Lab Order:** 9909184 **Alt. Client ID:**  
**Project:** Luzerne Road **Collection Date:** 9/21/99 8:09:00 AM  
**Lab ID:** 9909184-08A **Sample Type:** SAMP **Matrix:** SOIL **% Moist:** 8.89

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		20.3	µg/Kg-dry	1	10/16/99 7:23:04 PM	HP68902B_991015A	RN
Aroclor 1221	ND		40.7	µg/Kg-dry	1			
Aroclor 1232	ND		20.3	µg/Kg-dry	1			
Aroclor 1242	ND		20.3	µg/Kg-dry	1			
Aroclor 1248	ND		20.3	µg/Kg-dry	1			
Aroclor 1254	ND		20.3	µg/Kg-dry	1			
Aroclor 1260	ND		20.3	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	105.9		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	103.6		39-125	%REC	1			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M - Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
H<sub>c</sub> - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office      Client Sample ID: LR-65RI3-BSD  
Lab Order: 9909184      Alt. Client ID:  
Project: Luzerne Road      Collection Date: 9/21/99 8:36:00 AM  
Lab ID: 9909184-09A      Sample Type: SAMP      Matrix: SOIL      % Moist: 5.12

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### PCB ANALYSIS BY METHOD 8082

#### 1\_8082\_3550B\_S

Aroclor 1016	ND		19.1	µg/Kg-dry	1	10/16/99 8:05:41 PM	HP68902B_991015A	RN
Aroclor 1221	ND		38.3	µg/Kg-dry	1			
Aroclor 1232	ND		19.1	µg/Kg-dry	1			
Aroclor 1242	ND		19.1	µg/Kg-dry	1			
Aroclor 1248	ND		19.1	µg/Kg-dry	1			
Aroclor 1254	ND		19.1	µg/Kg-dry	1			
Aroclor 1260	ND		19.1	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	105.5		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	104.3		39-125	%REC	1			

**Definitions:** ND - Not Detected at the Reporting Limit      \* - Recovery outside limits      M - Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits      R - RPD outside recovery limits      Q - Qualifier  
B - Analyte detected in the associated Method Blank      E - Value above quantitation range      Limit - Reporting Limit  
H<sub>2</sub> - Value exceeds Maximum Contaminant Level      Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-60RI1-DSO
<b>Lab Order:</b>	9909184	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/21/99 9:26:00 AM
<b>Lab ID:</b>	9909184-10A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	6.08

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

1\_8082\_3550B\_S

Aroclor 1016	ND		970	µg/Kg-dry	50	10/16/99 10:13:32 PM	HP68902B_991015A	RN
Aroclor 1221	ND		1940	µg/Kg-dry	50			
Aroclor 1232	ND		970	µg/Kg-dry	50			
Aroclor 1242	14300		970	µg/Kg-dry	50			
Aroclor 1248	ND		970	µg/Kg-dry	50			
Aroclor 1254	ND		970	µg/Kg-dry	50			
Aroclor 1260	ND		970	µg/Kg-dry	50			
Surr: Decachlorobiphenyl	Diluted Out		52-115	%REC	50			
Surr: Tetrachloro-m-xylene	Diluted Out		39-125	%REC	50			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H <sub>c</sub> - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	



# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-60RI3-ESD
<b>Lab Order:</b>	9909184	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/21/99 10:18:00 AM
<b>Lab ID:</b>	9909184-11A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	4.92

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### PCB ANALYSIS BY METHOD 8082 \_8082\_3550B\_S

Aroclor 1016	ND		18.8	µg/Kg-dry	1	10/16/99 10:56:15 PM	HP68902B_991015A	RN
Aroclor 1221	ND		37.6	µg/Kg-dry	1			
Aroclor 1232	ND		18.8	µg/Kg-dry	1			
Aroclor 1242	ND		18.8	µg/Kg-dry	1			
Aroclor 1248	ND		18.8	µg/Kg-dry	1			
Aroclor 1254	ND		18.8	µg/Kg-dry	1			
Aroclor 1260	ND		18.8	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	93.8		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	88.1		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM

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# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-60RI3-ESD-D
<b>Lab Order:</b>	9909184	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/21/99 10:18:00 AM
<b>Lab ID:</b>	9909184-12A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	5.17

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		19.3	µg/Kg-dry	1	10/16/99 11:38:55 PM	HP68902B_991015A	RN
Aroclor 1221	ND		38.6	µg/Kg-dry	1			
Aroclor 1232	ND		19.3	µg/Kg-dry	1			
Aroclor 1242	ND		19.3	µg/Kg-dry	1			
Aroclor 1248	ND		19.3	µg/Kg-dry	1			
Aroclor 1254	ND		19.3	µg/Kg-dry	1			
Aroclor 1260	ND		19.3	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	110.1		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	107.2		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H <sub>c</sub> - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-58RI1-ASD

Lab Order: 9909184

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/21/99 10:47:00 AM

Lab ID: 9909184-13A Sample Type: SAMP

Matrix: SOIL

% Moist: 8.36

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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## PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		19.9	µg/Kg-dry	1	10/17/99 12:21:33 AM	HP68902B_991015A	RN
Aroclor 1221	ND		39.8	µg/Kg-dry	1			
Aroclor 1232	ND		19.9	µg/Kg-dry	1			
Aroclor 1242	ND		19.9	µg/Kg-dry	1			
Aroclor 1248	ND		19.9	µg/Kg-dry	1			
Aroclor 1254	ND		19.9	µg/Kg-dry	1			
Aroclor 1260	ND		19.9	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	108.1		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	105.1		39-125	%REC	1			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M - Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 10:26:99 9:00:00 AM

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# Ecology and Environment, Inc.

# Laboratory Results

## Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office

**Client Sample ID:** LR-56RI1-ASD

**Lab Order:** 9909184

**Alt. Client ID:**

**Project:** Luzerne Road

**Collection Date:** 9/21/99 10:55:00 AM

**Lab ID:** 9909184-14A **Sample Type:** SAMP

**Matrix:** SOIL

**% Moist:** 9.00

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		20.4	µg/Kg-dry	1	10/17/99 1:04:11 AM	HP68902B_991015A	RN
Aroclor 1221	ND		40.9	µg/Kg-dry	1			
Aroclor 1232	ND		20.4	µg/Kg-dry	1			
Aroclor 1242	84.2		20.4	µg/Kg-dry	1			
Aroclor 1248	ND		20.4	µg/Kg-dry	1			
Aroclor 1254	26.9		20.4	µg/Kg-dry	1			
Aroclor 1260	28.3		20.4	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	87.9		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	97.7		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H <sub>2</sub> - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-64RI1-CSD

Lab Order: 9909184

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/21/99 11:32:00 AM

Lab ID: 9909184-15A Sample Type: SAMP

Matrix: SOIL

% Moist: 6.39

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		18.6	µg/Kg-dry	1	10/17/99 1:46:53 AM	HP68902B_991015A	RN
Aroclor 1221	ND		37.3	µg/Kg-dry	1			
Aroclor 1232	ND		18.6	µg/Kg-dry	1			
Aroclor 1242	ND		18.6	µg/Kg-dry	1			
Aroclor 1248	ND		18.6	µg/Kg-dry	1			
Aroclor 1254	ND		18.6	µg/Kg-dry	1			
Aroclor 1260	ND		18.6	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	94.7		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	100.4		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM

# Ecology and Environment, Inc.

# Laboratory Results

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-64RI2-ASD
<b>Lab Order:</b>	9909184	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/21/99 12:02:00 PM
<b>Lab ID:</b>	9909184-16A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	12.00

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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### PCB ANALYSIS BY METHOD 8082

#### 1\_8082\_3550B\_S

Aroclor 1016	ND		407	µg/Kg-dry	20	10/17/99 2:29:33 AM	HP68902B_991015A	RN
Aroclor 1221	ND		815	µg/Kg-dry	20			
Aroclor 1232	ND		407	µg/Kg-dry	20			
Aroclor 1242	ND		407	µg/Kg-dry	20			
Aroclor 1248	ND		407	µg/Kg-dry	20			
Aroclor 1254	1740		407	µg/Kg-dry	20			
Aroclor 1260	ND		407	µg/Kg-dry	20			
Surr: Decachlorobiphenyl	Diluted Out		52-115	%REC	20			
Surr: Tetrachloro-m-xylene	Diluted Out		39-125	%REC	20			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H <sub>c</sub> - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-175L1-BSD

Lab Order: 9909184

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/21/99 2:08:00 PM

Lab ID: 9909184-17A Sample Type: SAMP

Matrix: SOIL

% Moist: 5.22

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		19.3	µg/Kg-dry	1	10/17/99 3:12:14 AM	HP68902B_991015A	RN
Aroclor 1221	ND		38.7	µg/Kg-dry	1			
Aroclor 1232	ND		19.3	µg/Kg-dry	1			
Aroclor 1242	ND		19.3	µg/Kg-dry	1			
Aroclor 1248	ND		19.3	µg/Kg-dry	1			
Aroclor 1254	ND		19.3	µg/Kg-dry	1			
Aroclor 1260	ND		19.3	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	91.4		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	97.8		39-125	%REC	1			

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM

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# Ecology and Environment, Inc.

# Laboratory Results

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-590S1-BSD
<b>Lab Order:</b>	9909184	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/21/99 2:51:00 PM
<b>Lab ID:</b>	9909184-18A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	6.00

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analysis
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		20.3	µg/Kg-dry	1	10/17/99 3:54:53 AM	HP68902B_991015A	RN
Aroclor 1221	ND		40.7	µg/Kg-dry	1			
Aroclor 1232	ND		20.3	µg/Kg-dry	1			
Aroclor 1242	ND		20.3	µg/Kg-dry	1			
Aroclor 1248	ND		20.3	µg/Kg-dry	1			
Aroclor 1254	ND		20.3	µg/Kg-dry	1			
Aroclor 1260	ND		20.3	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	94.3		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	94.3		39-125	%REC	1			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H <sub>c</sub> - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM

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# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-463W1-BSD

Lab Order: 9909184

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/21/99 3:30:00 PM

Lab ID: 9909184-19A Sample Type: SAMP

Matrix: SOIL

% Moist: 11.70

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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**PCB ANALYSIS BY METHOD 8082**

**1\_8082\_3550B\_S**

Aroclor 1016	ND		205	µg/Kg-dry	10	10/17/99 4:37:33 AM	HP68902B_991015A	RN
Aroclor 1221	ND		410	µg/Kg-dry	10			
Aroclor 1232	ND		205	µg/Kg-dry	10			
Aroclor 1242	1510		205	µg/Kg-dry	10			
Aroclor 1248	ND		205	µg/Kg-dry	10			
Aroclor 1254	ND		205	µg/Kg-dry	10			
Aroclor 1260	ND		205	µg/Kg-dry	10			
Surr: Decachlorobiphenyl	107.2		52-115	%REC	10			
Surr: Tetrachloro-m-xylene	90.1		39-125	%REC	10			

<b>Definitions:</b>	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
	H_ - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM

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# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office **Client Sample ID:** LR-165L5-BSD  
**Lab Order:** 9909199 **Alt. Client ID:**  
**Project:** Luzerne Road **Collection Date:** 9/22/99  
**Lab ID:** 9909199-24A **Sample Type:** SAMP **Matrix:** SOIL **% Moist:** 12.50

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		452	µg/Kg-dry	20	10/5/99 4:18:18 AM	HP58901A_991004A	RJS
Aroclor 1221	ND		904	µg/Kg-dry	20			
Aroclor 1232	ND		452	µg/Kg-dry	20			
Aroclor 1242	4290		452	µg/Kg-dry	20			
Aroclor 1248	ND		452	µg/Kg-dry	20			
Aroclor 1254	1910		452	µg/Kg-dry	20			
Aroclor 1260	ND		452	µg/Kg-dry	20			
Surr: Decachlorobiphenyl	diluted out		52-115	%REC	20			
Surr: Tetrachloro-m-xylene	diluted out		39-125	%REC	20			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M -Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM



# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office **Client Sample ID:** LR-165L4-BSD  
**Lab Order:** 9909199 **Alt. Client ID:**  
**Project:** Luzerne Road **Collection Date:** 9/22/99  
**Lab ID:** 9909199-26A **Sample Type:** SAMP **Matrix:** SOIL **% Moist:** 5.51

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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## PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		21.0	µg/Kg-dry	1	10/5/99 5:40:10 AM	HP58901A_991004A	RJS
Aroclor 1221	ND		42.0	µg/Kg-dry	1			
Aroclor 1232	ND		21.0	µg/Kg-dry	1			
Aroclor 1242	ND		21.0	µg/Kg-dry	1			
Aroclor 1248	ND		21.0	µg/Kg-dry	1			
Aroclor 1254	ND		21.0	µg/Kg-dry	1			
Aroclor 1260	ND		21.0	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	100.0		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	104.2		39-125	%REC	1			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M - Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
H<sub>c</sub> - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office **Client Sample ID:** LR-1063-BSD  
**Lab Order:** 9909199 **Alt. Client ID:**  
**Project:** Luzerne Road **Collection Date:** 9/22/99  
**Lab ID:** 9909199-27A **Sample Type:** SAMP **Matrix:** SOIL **% Moist:** 6.12

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### PCB ANALYSIS BY METHOD 8082

#### 1\_8082\_3550B\_S

Aroclor 1016	ND		21.1	µg/Kg-dry	1	10/5/99 7:42:49 AM	HP58901A_991004A	RJS
Aroclor 1221	ND		42.1	µg/Kg-dry	1			
Aroclor 1232	ND		21.1	µg/Kg-dry	1			
Aroclor 1242	ND		21.1	µg/Kg-dry	1			
Aroclor 1248	ND		21.1	µg/Kg-dry	1			
Aroclor 1254	ND		21.1	µg/Kg-dry	1			
Aroclor 1260	ND		21.1	µg/Kg-dry	1			
Surr: Decachlorobiphenyl	97.8		52-115	%REC	1			
Surr: Tetrachloro-m-xylene	103.1		39-125	%REC	1			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M -Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
H<sub>c</sub> - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

**CLIENT:** E and E Buffalo Office **Client Sample ID:** LR-1063-DSD  
**Lab Order:** 9909199 **Alt. Client ID:**  
**Project:** Luzerne Road **Collection Date:** 9/22/99  
**Lab ID:** 9909199-28A **Sample Type:** SAMP **Matrix:** SOIL **% Moist:** 16.20

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### PCB ANALYSIS BY METHOD 8082

1\_8082\_3550B\_S

Aroclor 1016	ND		117	µg/Kg-dry	5	10/5/99 8:23:46 AM	HP58901A_991004A	RJS
Aroclor 1221	ND		234	µg/Kg-dry	5			
Aroclor 1232	ND		117	µg/Kg-dry	5			
Aroclor 1242	ND		117	µg/Kg-dry	5			
Aroclor 1248	ND		117	µg/Kg-dry	5			
Aroclor 1254	ND		117	µg/Kg-dry	5			
Aroclor 1260	ND		117	µg/Kg-dry	5			
Surr: Decachlorobiphenyl	139.4	*	52-115	%REC	5			
Surr: Tetrachloro-m-xylene	126.9	*	39-125	%REC	5			

**Definitions:** ND - Not Detected at the Reporting Limit \* - Recovery outside limits M - Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
H<sub>c</sub> - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 10/26/99 9:00:00 AM



**Residential Subsurface Soil VOC and TOC Data**





1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LR106F2BSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909199

SAS No.:

SDG No.: LR1063

Matrix: (soil/water) SOIL

Lab Sample ID: 19B

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: J2117

Level: (low/med) LOW

Date Received: 09/23/99

% Moisture: not dec. 11

Date Analyzed: 09/28/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	11	U
67-64-1	-----Acetone	11	U
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	11	U
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U

FORM I VOA

10/95

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LR106F2BSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909199

SAS No.:

SDG No.: LR1063

Matrix: (soil/water) SOIL

Lab Sample ID: 19B

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: J2117

Level: (low/med) LOW

Date Received: 09/23/99

% Moisture: not dec. 11

Date Analyzed: 09/28/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LR165L3CSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909199

SAS No.:

SDG No.: LR1063

Matrix: (soil/water) SOIL

Lab Sample ID: 17A

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: J2115

Level: (low/med) LOW

Date Received: 09/23/99

% Moisture: not dec. 6

Date Analyzed: 09/28/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LR165L4FSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909199 SAS No.: \_\_\_\_\_ SDG No.: LR1063

Matrix: (soil/water) SOIL Lab Sample ID: 18A

Sample wt/vol: 5.4 (g/mL) G Lab File ID: J2116

Level: (low/med) LOW Date Received: 09/23/99

% Moisture: not dec. 7 Date Analyzed: 09/28/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	20	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LR165L4FSO
------------

Lab Name: E & E INC.	Contract:
Lab Code: EANDE	Case No.: 9909199
	SAS No.:
	SDG No.: LR1063
Matrix: (soil/water) SOIL	Lab Sample ID: 18A
Sample wt/vol: 5.4 (g/mL) G	Lab File ID: J2116
Level: (low/med) LOW	Date Received: 09/23/99
% Moisture: not dec. 7	Date Analyzed: 09/28/99
GC Column: DB-624	ID: 0.530 (mm)
	Dilution Factor: 1.0
Soil Extract Volume: (uL)	Soil Aliquot Volume: (uL)

Number TICs found: 1

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown hydrocarbon	24.66	17	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LR58I53ASO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909199 SAS No.: \_\_\_\_\_ SDG No.: LR1063

Matrix: (soil/water) SOIL Lab Sample ID: 16A

Sample wt/vol: 5.3 (g/mL) G Lab File ID: J2114

Level: (low/med) LOW Date Received: 09/23/99

% Moisture: not dec. 8 Date Analyzed: 09/28/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LR58I53ASO
------------

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909199

SAS No.:

SDG No.: LR1063

Matrix: (soil/water) SOIL

Lab Sample ID: 16A

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: J2114

Level: (low/med) LOW

Date Received: 09/23/99

% Moisture: not dec. 8

Date Analyzed: 09/28/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

590S01BSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909184

SAS No.:

SDG No.: LR175L

Matrix: (soil/water) SOIL

Lab Sample ID: 33A

Sample wt/vol: 5.5 (g/mL) G

Lab File ID: J2042

Level: (low/med) LOW

Date Received: 09/22/99

% Moisture: not dec. 6

Date Analyzed: 09/24/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	3	J
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

FORM I VOA

10/95

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

590S01BSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909184

SAS No.:

SDG No.: LR175L

Matrix: (soil/water) SOIL

Lab Sample ID: 33A

Sample wt/vol: 5.5 (g/mL) G

Lab File ID: J2042

Level: (low/med) LOW

Date Received: 09/22/99

% Moisture: not dec. 6

Date Analyzed: 09/24/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LR17SL01BSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909184

SAS No.:

SDG No.: LR175L

Matrix: (soil/water) SOIL

Lab Sample ID: 29A

Sample wt/vol: 5.5 (g/mL) G

Lab File ID: J2038

Level: (low/med) LOW

Date Received: 09/22/99

% Moisture: not dec. 5

Date Analyzed: 09/24/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	3	J
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

FORM I VOA

10/95

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LR17SL01BSO

Lab Name: E & E INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9909184 SAS No.: \_\_\_\_\_ SDG No.: LR175L

Matrix: (soil/water) SOIL Lab Sample ID: 29A

Sample wt/vol: 5.5 (g/mL) G Lab File ID: J2038

Level: (low/med) LOW Date Received: 09/22/99

% Moisture: not dec. 5 Date Analyzed: 09/24/99

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LR463W01CSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909184

SAS No.:

SDG No.: LR175L

Matrix: (soil/water) SOIL

Lab Sample ID: 31A

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: J2040

Level: (low/med) LOW

Date Received: 09/22/99

% Moisture: not dec. 14

Date Analyzed: 09/24/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	11	U
74-83-9-----	Bromomethane	11	U
75-01-4-----	Vinyl Chloride	11	U
75-00-3-----	Chloroethane	11	U
75-09-2-----	Methylene Chloride	11	U
67-64-1-----	Acetone	2	J
75-15-0-----	Carbon Disulfide	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-34-3-----	1,1-Dichloroethane	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
67-66-3-----	Chloroform	11	U
107-06-2-----	1,2-Dichloroethane	11	U
78-93-3-----	2-Butanone	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
75-27-4-----	Bromodichloromethane	11	U
78-87-5-----	1,2-Dichloropropane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
79-01-6-----	Trichloroethene	11	U
124-48-1-----	Dibromochloromethane	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
71-43-2-----	Benzene	11	U
10061-02-6-----	trans-1,3-Dichloropropene	11	U
75-25-2-----	Bromoform	11	U
108-10-1-----	4-Methyl-2-Pentanone	11	U
591-78-6-----	2-Hexanone	11	U
127-18-4-----	Tetrachloroethene	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
108-88-3-----	Toluene	1	J
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
1330-20-7-----	Xylene (total)	11	U

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LR60RI03DSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909184

SAS No.:

SDG No.: LR175L

Matrix: (soil/water) SOIL

Lab Sample ID: 30A

Sample wt/vol: 5.6 (g/mL) G

Lab File ID: J2039

Level: (low/med) LOW

Date Received: 09/22/99

% Moisture: not dec. 8

Date Analyzed: 09/24/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	4	J
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

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1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LR60RI03DSO

Lab Name: E & E INC. Contract: \_\_\_\_\_  
 Lab Code: EANDE Case No.: 9909184 SAS No.: \_\_\_\_\_ SDG No.: LR175L  
 Matrix: (soil/water) SOIL Lab Sample ID: 30A  
 Sample wt/vol: 5.6 (g/mL) G Lab File ID: J2039  
 Level: (low/med) LOW Date Received: 09/22/99  
 % Moisture: not dec. 8 Date Analyzed: 09/24/99  
 GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1000078-93	2-Ethyl-3-trimethylsilyloxy(	28.85	6	JN



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

LR65RI01FSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909184

SAS No.:

SDG No.: LR175L

Matrix: (soil/water) SOIL

Lab Sample ID: 32A

Sample wt/vol: 5.5 (g/mL) G

Lab File ID: J2041

Level: (low/med) LOW

Date Received: 09/22/99

% Moisture: not dec. 9

Date Analyzed: 09/24/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	9	J
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

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10/95

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

LR65RI01FSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9909184

SAS No.:

SDG No.: LR175L

Matrix: (soil/water) SOIL

Lab Sample ID: 32A

Sample wt/vol: 5.5 (g/mL) G

Lab File ID: J2041

Level: (low/med) LOW

Date Received: 09/22/99

% Moisture: not dec. 9

Date Analyzed: 09/24/99

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 16654-74-3	3,6,9-Trioxa-2,10-disilaunde	28.86	7	JN

# Ecology and Environment, Inc.

# Laboratory Results

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-60-RI-02-HSO

Lab Order: 9909184

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/21/99 9:46:00 AM

Lab ID: 9909184-21A Sample Type: SAMP

Matrix: SOIL

% Moist: 13.40

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN

#### 1\_LK\_TOC\_S

Total Organic Carbon	ND		2270	mg/Kg-dry	1	9/29/99	TOC 5000A_990929A	DMR
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Definitions:

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	

LIMS Version #: 3.1.1.0Dev - 10/14/99 6:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office Client Sample ID: LR-59-0S-01-BSO  
Lab Order: 9909184 Alt. Client ID:  
Project: Luzerne Road Collection Date: 9/21/99 2:51:00 PM  
Lab ID: 9909184-22A Sample Type: SAMP Matrix: SOIL % Moist: 5.78

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN 1\_LK\_TOC\_S

Total Organic Carbon	ND		2010	mg/Kg-dry	1	9/29/99	TOC 5000A_990929A	DMR
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Definitions: ND - Not Detected at the Reporting Limit \* - Recovery outside limits M - Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
H- Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 10/14/99 6:00:00 PM

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086-

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-64-RI-02-HSO

Lab Order: 9909184

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/21/99 12:20:00 PM

Lab ID: 9909184-23A Sample Type: SAMP

Matrix: SOIL

% Moist: 12.50

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN

1\_LK\_TOC\_S

Total Organic Carbon	ND		2200	mg/Kg-dry	1	9/29/99	TOC 5000A_990929A	DMR
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Definitions:

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M - Matrix Spike recovery outside limits

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

H - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

CLIENT: E and E Buffalo Office Client Sample ID: LR-65-RI-01-HSO  
Lab Order: 9909184 Alt. Client ID:  
Project: Luzerne Road Collection Date: 9/21/99 8:25:00 AM  
Lab ID: 9909184-24A Sample Type: SAMP Matrix: SOIL % Moist: 9.56

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN  
1\_LK\_TOC\_S

Total Organic Carbon	ND		2140	mg/Kg-dry	1	9/29/99	TOC 5000A_990929A	DMR
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Definitions: ND - Not Detected at the Reporting Limit \* - Recovery outside limits M - Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
HT - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-175-L01-BSO

Lab Order: 9909184

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/21/99 2:08:00 PM

Lab ID: 9909184-25A Sample Type: SAMP

Matrix: SOIL

% Moist: 5.56

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN

1\_LK\_TOC\_S

Total Organic Carbon	ND		2020	mg/Kg-dry	1	9/29/99	TOC 5000A_990929A	DMR
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Definitions:

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M - Matrix Spike recovery outside limits

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

IT - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound

# Ecology and Environment, Inc.

# Laboratory Results

Analytical Services Center  
 4493 Walden Avenue  
 Lancaster, New York 14086-

NYS ELAP ID#: 10486  
 Phone: (716) 685-8080

<b>CLIENT:</b>	E and E Buffalo Office	<b>Client Sample ID:</b>	LR-64-RI-01-FSO
<b>Lab Order:</b>	9909184	<b>Alt. Client ID:</b>	
<b>Project:</b>	Luzerne Road	<b>Collection Date:</b>	9/21/99 11:34:00 AM
<b>Lab ID:</b>	9909184-26A	<b>Sample Type:</b>	SAMP
		<b>Matrix:</b>	SOIL
		<b>% Moist:</b>	3.65

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
<b>TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN</b>								
<b>1_LK_TOC_S</b>								
Total Organic Carbon	ND		2000	mg/Kg-dry	1	9/29/99	TOC 5000A_990929A	DMR

**Definitions:**

ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M - Matrix Spike recovery outside limits
J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
B - Analyte detected in the associated Method Blank	E - Value above quantitation range	Limit - Reporting Limit
IF - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	



# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Client Sample ID: LR-463-W-01-CSO

Lab Order: 9909184

Alt. Client ID:

Project: Luzerne Road

Collection Date: 9/21/99 3:34:00 PM

Lab ID: 9909184-27A Sample Type: SAMP

Matrix: SOIL

% Moist: 15.20

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN

#### 1\_LK\_TOC\_S

Total Organic Carbon	5730		2300	mg/Kg-dry	1	9/29/99	TOC 5000A_990929A	DMR
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#### Definitions:

ND - Not Detected at the Reporting Limit

\* - Recovery outside limits

M - Matrix Spike recovery outside limits

J - Analyte detected below Reporting limits

R - RPD outside recovery limits

Q - Qualifier

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Limit - Reporting Limit

H - Value exceeds Maximum Contaminant Level

Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 10/14/99 6:00:00 PM

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# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

CLIENT: E and E Buffalo Office      Client Sample ID: LR-56-RII-ASO  
Lab Order: 9909184      Alt. Client ID:  
Project: Luzerne Road      Collection Date: 9/21/99 10:55:00 AM  
Lab ID: 9909184-28A      Sample Type: SAMP      Matrix: SOIL      % Moist: 9.96

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN 1\_LK\_TOC\_S

Total Organic Carbon	9710		2050	mg/Kg-dry	1	9/29/99	TOC 5000A_990929A	DMR
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Definitions: ND - Not Detected at the Reporting Limit      \* - Recovery outside limits      M -Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits      R - RPD outside recovery limits      Q - Qualifier  
B - Analyte detected in the associated Method Blank      E - Value above quantitation range      Limit - Reporting Limit  
H<sup>-</sup> - Value exceeds Maximum Contaminant Level      Surr - Denotes Surrogate Compound

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

CLIENT: E and E Buffalo Office      Client Sample ID: LR-165L3-BSO  
Lab Order: 9909199      Alt. Client ID:  
Project: Luzerne Road      Collection Date: 9/22/99 2:13:00 PM  
Lab ID: 9909199-14A      Sample Type: SAMP      Matrix: SOIL      % Moist: 4.90

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
<b>TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN</b>								
<b>1_LK_TOC_S</b>								
Total Organic Carbon	ND		2020	mg/Kg-dry	1	9/28/99	TOC 5000A_990928A	DMR

Definitions:      ND - Not Detected at the Reporting Limit      \* - Recovery outside limits      M -Matrix Spike recovery outside limits  
                         J - Analyte detected below Reporting limits      R - RPD outside recovery limits      Q - Qualifier  
                         B - Analyte detected in the associated Method Blank      E - Value above quantitation range      Limit - Reporting Limit  
                         FT - Value exceeds Maximum Contaminant Level      Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 10/14/99 6:00:00 PM

# Ecology and Environment, Inc.

## Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086-

# Laboratory Results

NYS ELAP ID#: 10486  
Phone: (716) 685-8080

CLIENT: E and E Buffalo Office Client Sample ID: LR-106F2-BSO  
Lab Order: 9909199 Alt. Client ID:  
Project: Luzerne Road Collection Date: 9/22/99 4:54:00 PM  
Lab ID: 9909199-19A Sample Type: SAMP Matrix: SOIL % Moist: 10.80

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
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### TOTAL ORGANIC CARBON BY METHOD LLOYD KAHN

1\_LK\_TOC\_S

Total Organic Carbon	25800		2230	mg/Kg-dry	1	9/28/99	TOC 5000A_990928A	DMR
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Definitions: ND - Not Detected at the Reporting Limit \* - Recovery outside limits M - Matrix Spike recovery outside limits  
J - Analyte detected below Reporting limits R - RPD outside recovery limits Q - Qualifier  
B - Analyte detected in the associated Method Blank E - Value above quantitation range Limit - Reporting Limit  
H - Value exceeds Maximum Contaminant Level Surr - Denotes Surrogate Compound

LIMS Version #: 3.1.1.0Dev - 10/14/99 6:00:00 PM