

915022/915138

REMEDIAL ACTION IMPLEMENTATION REPORT

ERNST STEEL SITE

1728 AND 1746 WALDEN AVENUE
CHEEKTOWAGA, NEW YORK

(NYSDEC Site Number 915022)

Prepared for:

1746 Walden, Inc.
570 Delaware Avenue
Buffalo, New York 14202

Prepared by:

Barron & Associates, P.C.
10440 Main Street
Clarence, New York 14031

February 1996⁷

Volume 2 of 3

APPENDIX G

ERNST STEEL CONFIRMATION SAMPLING ANALYTICAL AND QUALITY CONTROL RESULTS

ecology and environment, inc.
QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 4501858 Date: 8/18/95
Report Title: _____
Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
<u>Metals</u>	<u>AVS</u>	<u>8/19/95</u>
<u>Gen. Chem.</u>		
<u>GC</u>		
<u>GC/MS</u>		
<u>Micro, Asbestos</u>		
<u>Other</u>		

Report Written by:

1st Draft Reviewed by:

CIRCULATED:

2nd Draft Reviewed by: (If needed)

Final Review by Author:

ASC Manager:

QA Officer:

Corp. Project Manager:
(Internal Job)

All QA Protocol Review Forms
Signed and in File
(to be signed by report writer)

1 Copies of Report Sent to: BARB PECK

1 Invoices Sent to Accounting

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager;
Pink - Project File.

407064

MEMORANDUM

TO: Barb Peck
FROM: Gary Hahn *G. Hahn*
DATE: August 18, 1995
SUBJECT: SD-6000 Ernst Steel Report
RE: 9501.858
CC: Lab File

Attached is the laboratory report of the analysis conducted on eight samples received at the Analytical Services Center on August 15, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you and Gil Maxwell on 8/18/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure



Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

Page 1 of 1

Project No.: SD6050			Project Name: ERNST STEEL			Project Manager: B. PECK			REMARKS												
Samplers: (Signatures) JP Robert Howell						Field Team Leader: J. PECK															
STATION NUMBER	DATE	TIME	SAMPLE TYPE			STATION LOCATION	NUMBER OF CON-TAINERS	TOTAL LEAD (Pb20)													
			COMP	GRAB	AIR																
001	8/15/95	17:00		X		LEAD, CHR. - LOW	E2-PN	1	CONFIRMATION SAMPLES												
002		17:01					E2-PE	1													
003		17:01					E2-PS	1													
004		17:04					E2-BE	1													
005		17:30					S-150,325	1													
006		17:31					S-150,350	1													
007		17:32					S-175,325	1													
008		17:33					S-175,350	1													
009		17:34					S-175,375	1													
						JP 8/15/95															
Relinquished By: (Signature) JP			Date/Time: 8/15 18:00			Received By: (Signature)			Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			Ship Via: HAND DELIVER			
Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			BL/Airbill Number:			
Relinquished By: (Signature)			Date/Time:			Received For Laboratory By: (Signature)			Relinquished By: (Signature)			Date/Time:			Received For Laboratory By: (Signature)			Date:			

Distribution: Original Accompanies Shipment; Copy to Coordinator ☒ Field Files ☒

*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9501.858

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	CLIENT		DATE	DATE	DATE
-	SAMPLE	SAMPLE	SAMPLED	EXTRACTED	ANALYZED
	NUMBER	ID			
	-----	-----	-----	-----	-----
LEAD		(ICP) -S			
	31422.01	E2-PN	08/15/95	08/16/95	08/17/95
	31423.01	E2-PE	08/15/95	08/16/95	08/17/95
	31424.01	E2-PS	08/15/95	08/16/95	08/17/95
	31425.01	S-150,325	08/15/95	08/16/95	08/17/95
	31426.01	S-150,350	08/15/95	08/16/95	08/17/95
	31427.01	S-175,325	08/15/95	08/16/95	08/17/95
	31428.01	S-175,350	08/15/95	08/16/95	08/17/95
	31429.01	S-175,375	08/15/95	08/16/95	08/17/95
SOLIDS-TOTAL (MET)		-S			
	31422.01	E2-PN	08/15/95		08/17/95
	31423.01	E2-PE	08/15/95		08/17/95
	31424.01	E2-PS	08/15/95		08/17/95
	31425.01	S-150,325	08/15/95		08/17/95
	31426.01	S-150,350	08/15/95		08/17/95
	31427.01	S-175,325	08/15/95		08/17/95
	31428.01	S-175,350	08/15/95		08/17/95
	31429.01	S-175,375	08/15/95		08/17/95

TEST CODE : STSMET1

JOB NUMBER : 9501.858

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-31422		
E2-PN	86	
EE-95-31423		
E2-PE	95	
EE-95-31424		
E2-PS	90	
EE-95-31425		
S-150,325	81	
EE-95-31426		
S-150,350	81	
EE-95-31427		
S-175,325	89	
EE-95-31428		
S-175,350	76	
EE-95-31429		
S-175,375	81	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.858

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 87 %

SAMPLE ID LAB : EE-95-31422

MATRIX: SOLID

SAMPLE ID CLIENT: E2-PN

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	6600		5.7	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.858

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-31423

SAMPLE ID CLIENT: E2-PE

%SOLIDS : 95 %

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1800	-	5.3	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.858

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 90 %

SAMPLE ID LAB : EE-95-31424

MATRIX: SOLID

SAMPLE ID CLIENT: E2-PS

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1200		5.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.858

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 81 %

SAMPLE ID LAB : EE-95-31425

MATRIX: SOLID

SAMPLE ID CLIENT: S-150,325

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	21		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.858

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-31427

SAMPLE ID CLIENT: S-175,325

%SOLIDS : 89 %

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	170		5.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.858

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 81 %

SAMPLE ID LAB : EE-95-31426

MATRIX: SOLID

SAMPLE ID CLIENT: S-150,350

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	23		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.858

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 76 %

SAMPLE ID LAB : EE-95-31428

MATRIX: SOLID

SAMPLE ID CLIENT: S-175,350

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	48		6.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.858

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 81 %

SAMPLE ID LAB : EE-95-31429

MATRIX: SOLID

SAMPLE ID CLIENT: S-175,375

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	80	-	6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.858

(mg/kg as received)

Parameter	E & E Laboratory No. 95- 31429	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		64.7	78.8	19.7

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9501.858

(mg/kg as received)

Parameter	E & E Laboratory No. 95- 31429	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		64.7	147	10.0	82.2

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (08/16)

9501.858

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	976	1000	97.6

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9501.858

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

ecology and environment, inc.
QUALITY ASSURANCE PROTOCOL REVIEW

Job No.:

4501868

Date:

8/18/95

Report Title:

Client:

ERNST STEEL

Laboratory Data Review

Supervisor

Date

Metals

AS

8/19/95

Gen. Chem.

GC

GC/MS

Micro, Asbestos

Other

Report Written by:

1st Draft Reviewed by:

CIRCULATED:

2nd Draft Reviewed by: (If needed)

Final Review by Author:

ASC Manager:

QA Officer:

Corp. Project Manager:
(Internal Job)

All QA Protocol Review Forms
Signed and in File
(to be signed by report writer)

1 Copies of Report Sent to:

1 Invoices Sent to Accounting

Comments/Notes:

Signature

Date

JK

8/18/95

JK

8/18/95

JK

8/18/95

WR

8/2/95

TES GA

8/2/95

BARB PECK

8/18/95

BARB PECK

8/18/95

8/18/95

Copy Distribution: White - Report to Project File; Canary - Project Manager;
Pink - Project File.

407064

MEMORANDUM

TO: Barb Peck
FROM: Gary Hahn *Gary Hahn kr*
DATE: August 18, 1995
SUBJECT: SD-6000 Ernst Steel Report
RE: 9501.868
CC: Lab File

Attached is the laboratory report of the analysis conducted on thirteen samples received at the Analytical Services Center on August 16, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you and Gil Maxwell on 8/18/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure



ecology and environment, inc.

Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685 8080, Fax 716/685 0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

9501 260
31467 - 31479

2517

Project No.: SD6050			Project Name: <u>ERNST STEEL</u>			Project Manager: <u>B. PECK</u>			REMARKS											
Samplers: (Signatures) <u>J.P. Peck</u> <u>Bill Peck</u>						Field Team Leader: <u>J. PECK</u>														
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION	STATION LOCATION	NUMBER OF CONTAINERS												
			COMP	GRAB	AIR															
EXPECTED COMPOUNDS (Concentration) *																				
001	8/15	17:03	X			LEAD, CHROMIUM - LOW	E2-BE	1	<div style="text-align: right; margin-top: 10px;">ON CoFC For 8/15 - Accidentally not turned in.</div>											
002	8/16	14:30	X				S-225/325	1												
003	8/16	14:32	X				S-200/375 P	1												
004	8/16	14:34	X				S-200/325	1												
005	8/16	14:36	X				S-200/350	1												
006	8/16	14:38	X				S-150/300	3												
007	8/16	14:48	X				S-250/325 P	1												
008	8/16	14:42	X				S-150/275	1												
009	8/16	16:30	X				S-175/300	1												
010	8/16	16:32	X				S-125/275 P	1												
011	8/16	16:34	X				S-200/300	1												
012	8/16	16:36	X				S-175/275	3												
013	8/16	16:38	X				S-125/300 P	1												
Relinquished By: (Signature) <u>J.P. Peck</u>			Date/Time: <u>8/14/95</u>			Received By: (Signature) <u>J.P. Peck</u>			Date/Time: <u>8/14/95</u>			Received By: (Signature) <u>J.P. Peck</u>			Date/Time: <u>8/14/95</u>			Ship Via: <u>HAND DELIVERY</u>		
Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			Date/Time:			Received By: (Signature)			Date/Time:			Ship Via:		
Relinquished By: (Signature)			Date/Time:			Received For Laboratory By (Signature)			Date/Time:			Received For Laboratory By (Signature)			Date/Time:			Ship Via:		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9501.868

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	CLIENT			
-	SAMPLE	SAMPLE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED
	-----	-----	-----	-----
				DATE
				ANALYZED

LEAD		(ICP) -S		
31467.01	E2-BE		08/15/95	08/17/95
31468.01	S-225/325		08/16/95	08/17/95
31469.01	S-200/375 P		08/16/95	08/17/95
31470.01	S-200/325		08/16/95	08/17/95
31471.01	S-200/350		08/16/95	08/17/95
31472.01	S-150/300		08/16/95	08/17/95
31473.01	S-250/325 P		08/16/95	08/17/95
31474.01	S-150/275		08/16/95	08/17/95
31475.01	S-175/300		08/16/95	08/17/95
31476.01	S-125/275 P		08/16/95	08/17/95
31477.01	S-200/300		08/16/95	08/17/95
31478.01	S-175/275		08/16/95	08/17/95
31479.01	S-125/300 P		08/16/95	08/17/95
SOLIDS-TOTAL	(MET)	-S		
31467.01	E2-BE		08/15/95	08/17/95
31468.01	S-225/325		08/16/95	08/17/95
31469.01	S-200/375 P		08/16/95	08/17/95
31470.01	S-200/325		08/16/95	08/17/95
31471.01	S-200/350		08/16/95	08/17/95
31472.01	S-150/300		08/16/95	08/17/95
31473.01	S-250/325 P		08/16/95	08/17/95
31474.01	S-150/275		08/16/95	08/17/95
31475.01	S-175/300		08/16/95	08/17/95
31476.01	S-125/275 P		08/16/95	08/17/95
31477.01	S-200/300		08/16/95	08/17/95
31478.01	S-175/275		08/16/95	08/17/95
31479.01	S-125/300 P		08/16/95	08/17/95

TEST CODE : STSMET1

JOB NUMBER : 9501.868

ELAP ID : 10486

Ecology and Environment, Inc.

Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-31467		
E2-BE	68	
EE-95-31468		
S-225/325	80	
EE-95-31469		
S-200/375 P	93	
EE-95-31470		
S-200/325	88	
EE-95-31471		
S-200/350	89	
EE-95-31472		
S-150/300	88	
EE-95-31473		
S-250/325 P	85	
EE-95-31474		
S-150/275	86	
EE-95-31475		
S-175/300	93	
EE-95-31476		
S-125/275 P	86	
EE-95-31477		
S-200/300	93	
EE-95-31478		
S-175/275	93	
EE-95-31479		
S-125/300 P	83	

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.868

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 68 %

SAMPLE ID LAB : EE-95-31467

MATRIX: SOLID

SAMPLE ID CLIENT: E2-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	370		7.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 80 %

SAMPLE ID LAB : EE-95-31468

MATRIX: SOLID

SAMPLE ID CLIENT: S-225/325

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	180		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.868

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-31469

SAMPLE ID CLIENT: S-200/375 P

%SOLIDS : 93 %

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	24000	-	5.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 88 %

SAMPLE ID LAB : EE-95-31470

MATRIX: SOLID

SAMPLE ID CLIENT: S-200/325

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1800		5.7	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.868

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 89 %

SAMPLE ID LAB : EE-95-31471

MATRIX: SOLID

SAMPLE ID CLIENT: S-200/350

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	340		5.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 88 %

SAMPLE ID LAB : EE-95-31472

MATRIX: SOLID

SAMPLE ID CLIENT: S-150/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	2800		5.7	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.868

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 85 %

SAMPLE ID LAB : EE-95-31473

MATRIX: SOLID

SAMPLE ID CLIENT: S-250/325 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1400		5.9	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.868

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 86 %

SAMPLE ID LAB : EE-95-31474

MATRIX: SOLID

SAMPLE ID CLIENT: S-150/275

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	320		5.8	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.868

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 93 %

SAMPLE ID LAB : EE-95-31475

MATRIX: SOLID

SAMPLE ID CLIENT: S-175/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2300		5.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-31476

%SOLIDS : 86 %

MATRIX: SOLID

SAMPLE ID CLIENT: S-125/275 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	46000		5.8	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.868

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-31477

SAMPLE ID CLIENT: S-200/300

%SOLIDS : 93 %

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2800	-	5.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 93 %

SAMPLE ID LAB : EE-95-31478

MATRIX: SOLID

SAMPLE ID CLIENT: S-175/275

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	300		5.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.868

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 83 %

SAMPLE ID LAB : EE-95-31479

MATRIX: SOLID

SAMPLE ID CLIENT: S-125/300 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	1500		6.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.868

(mg/kg as received)

Parameter	E & E Laboratory No. 95- 31478	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		282	242	15.3

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9501.868

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
	31478				
Lead		282	393	10.0	4X

4X = RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE
TIMES GREATER THAN SPIKE AMOUNT.

LABORATORY CONTROL SAMPLE (08/17)

9501.868

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	885	1000	88.5

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9501.868

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

ecology and environment, inc.
QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 4501.882 Date: 8/28/95
Report Title: _____
Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
Metals	RS	8/29/95
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	JK	8/28/95
1st Draft Reviewed by:	JK	8/28/95
CIRCULATED:	JK	8/28/95
2nd Draft Reviewed by: (If needed)		

	Signature	Date
Final Review by Author:	JK	8/29/95
ASC Manager:	JK	8/28/95

QA Officer:

Corp. Project Manager: CARB PECK
(Internal Job)


All QA Protocol Review Forms
Signed and in File
(to be signed by report writer)

1	Copies of Report Sent to:	JK	8/29/95
1	Invoices Sent to Accounting	JK	8/29/95

Comments/Notes: _____

Copy Distribution: White - Report to Project File; Canary - Project Manager; 407064
Pink - Project File.

MEMORANDUM

TO: Barb Peck
FROM: Gary Hahn 
DATE: August 28, 1995
SUBJECT: SD-6000 Ernst Steel Report
RE: 9501.882
CC: Lab File

Attached is the laboratory report of the analysis conducted on twenty six samples received at the Analytical Services Center on August 17, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 8/18/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure



ecology and environment, inc.

Analytical Services Center

4493 Walden Avenue, Lancaster, New York, 14086, Tel: 716/685-8080, Fax 716/685-0852

International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page ____ of ____

Project No.: SDW50		Project Name: ERNST STEEL		Project Manager: B. PECK		Field Team Leader: J. PECK		REMARKS	
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION	STATION LOCATION	NUMBER OF CONTAINERS	Total Pp (742)
			COMP	GRAB	AIR				
001	8/17	16:00	X			LEAD Chromium - Low	E7-BE	1	
002		16:02				*- except sample of	E6-BE	1	
003		16:04				paint + sludge = high*	E4-BE	1	
004		16:06					E3-BE	1	
005		16:09					E5-BE	1	
006		16:10					S-50/200 +	3	ms/msd
007		16:12					S-75/175 P +	1	
008		16:17					S-150/250 +	3	ms/msd
009		16:18					S-100/250 P +	1	
010		16:19					S-175/275 +	1	
011		16:20					S-200/275 P +	1	
012		16:22					S-150/225 P +	1	
013		16:24					S-75/200 +	1	
014		16:26					S-50/175 P +	1	

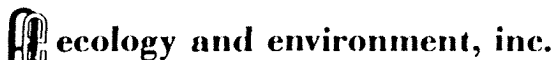
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
						HAND DELIVER
						BL/Airbill Number:
						Date:

Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)
	8/12/95				

Distribution: Original Accompanies Shipment; Copy to Coordinator; File

* See CONCENTRATION RANGE on back of form.

0571194



4493 Wakden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852

International Specialists in the Environment

Page 1 of 1

Distribution: Original Accompanies Shipment; Copy to Coordinator, Field File

* See CONCENTRATION RANGE on back of form.

0571194

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	CLIENT	DATE	DATE	DATE
SAMPLE	SAMPLE	SAMPLED	EXTRACTED	ANALYZED
NUMBER	ID			
-----	-----	-----	-----	-----
LEAD	(ICP) -S			
31587.01	E7-BE	08/17/95	08/17/95	08/18/95
31588.01	E6-BE	08/17/95	08/17/95	08/18/95
31589.01	E4-BE	08/17/95	08/17/95	08/18/95
31590.01	E3-BE	08/17/95	08/17/95	08/18/95
31591.01	E5-BE	08/17/95	08/17/95	08/18/95
31592.01	S-50/200	08/17/95	08/17/95	08/18/95
31593.01	S-75/175 P	08/17/95	08/17/95	08/18/95
31594.01	S-150/250	08/17/95	08/17/95	08/18/95
31595.01	S-100/250 P	08/17/95	08/17/95	08/18/95
31596.01	S-175/275	08/17/95	08/17/95	08/18/95
31597.01	S-200/275 P	08/17/95	08/17/95	08/18/95
31598.01	S-150/225 P	08/17/95	08/17/95	08/18/95
31599.01	S-75/200	08/17/95	08/17/95	08/18/95
31600.01	S-50/175 P	08/17/95	08/17/95	08/18/95
31601.01	S-125/225	08/17/95	08/17/95	08/18/95
31602.01	S-100/225 P	08/17/95	08/17/95	08/18/95
31603.01	S-175/250 P	08/17/95	08/17/95	08/18/95
31604.01	S-225/300	08/17/95	08/17/95	08/18/95
31605.01	S-50/150	08/17/95	08/17/95	08/18/95
31606.01	S-200/300	08/17/95	08/17/95	08/18/95
31607.01	S-100/200	08/17/95	08/17/95	08/18/95
31608.01	STOCKPILE #1	08/17/95	08/17/95	08/18/95
31609.01	S-125/250	08/17/95	08/17/95	08/18/95
31610.01	S-125/200 P	08/17/95	08/17/95	08/18/95
31611.01	STOCKPILE #2	08/17/95	08/17/95	08/18/95
31612.01	STOCKPILE #1 C	08/17/95	08/17/95	08/18/95
SOLIDS-TOTAL (MET)	-S			
31587.01	E7-BE	08/17/95		08/18/95
31588.01	E6-BE	08/17/95		08/18/95
31589.01	E4-BE	08/17/95		08/18/95
31590.01	E3-BE	08/17/95		08/18/95
31591.01	E5-BE	08/17/95		08/18/95
31592.01	S-50/200	08/17/95		08/18/95
31593.01	S-75/175 P	08/17/95		08/18/95
31594.01	S-150/250	08/17/95		08/18/95
31595.01	S-100/250 P	08/17/95		08/18/95
31596.01	S-175/275	08/17/95		08/18/95
31597.01	S-200/275 P	08/17/95		08/18/95
31598.01	S-150/225 P	08/17/95		08/18/95
31599.01	S-75/200	08/17/95		08/18/95
31600.01	S-50/175 P	08/17/95		08/18/95
31601.01	S-125/225	08/17/95		08/18/95
31602.01	S-100/225 P	08/17/95		08/18/95
31603.01	S-175/250 P	08/17/95		08/18/95
31604.01	S-225/300	08/17/95		08/18/95
31605.01	S-50/150	08/17/95		08/18/95

JOB NUMBER : 9501.882

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	CLIENT				
-	SAMPLE	SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
	-----	-----	-----	-----	-----
SOLIDS-TOTAL	(MET)	-S			
31606.01	S-200/300		08/17/95		08/18/95
31607.01	S-100/200		08/17/95		08/18/95
31608.01	STOCKPILE #1		08/17/95		08/18/95
31609.01	S-125/250		08/17/95		08/18/95
31610.01	S-125/200 P		08/17/95		08/18/95
31611.01	STOCKPILE #2		08/17/95		08/18/95
31612.01	STOCKPILE #1 C		08/17/95		08/18/95

TEST CODE :STSMET1

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-31587		
E7-BE	86	
EE-95-31588		
E6-BE	75	
EE-95-31589		
E4-BE	80	
EE-95-31590		
E3-BE	90	
EE-95-31591		
E5-BE	91	
EE-95-31592		
S-50/200	86	
EE-95-31593		
S-75/175 P	95	
EE-95-31594		
S-150/250	95	
EE-95-31595		
S-100/250 P	95	
EE-95-31596		
S-175/275	97	
EE-95-31597		
S-200/275 P	92	
EE-95-31598		
S-150/225 P	98	
EE-95-31599		
S-75/200	84	

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

TEST CODE : STSMET1

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-31600		
S-50/175 P	88	
EE-95-31601		
S-125/225	83	
EE-95-31602		
S-100/225 P	96	
EE-95-31603		
S-175/250 P	82	
EE-95-31604		
S-225/300	87	
EE-95-31605		
S-50/150	90	
EE-95-31606		
S-200/300	83	
EE-95-31607		
S-100/200	81	
EE-95-31608		
STOCKPILE #1	90	
EE-95-31609		
S-125/250	96	
EE-95-31610		
S-125/200 P	90	
EE-95-31611		
STOCKPILE #2	88	
EE-95-31612		
STOCKPILE #1 C	92	

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.882

(%)				
<hr/>				
Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
<hr/>				
Total Solids				
	31596	97.3	97.4	0.2
	31606	83.5	83.2	0.4
	31612	91.8	91.0	0.9

THESE RPDs ARE WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-31587

%SOLIDS : 86 %

MATRIX: SOLID

SAMPLE ID CLIENT: E7-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	480	-	5.8	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 75 %

SAMPLE ID LAB : EE-95-31588

MATRIX: SOLID

SAMPLE ID CLIENT: E6-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1300		6.7	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-31589

SAMPLE ID CLIENT: E4-BE

%SOLIDS : 80 %

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1000	-	6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 90 %

SAMPLE ID LAB : EE-95-31590

MATRIX: SOLID

SAMPLE ID CLIENT: E3-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	4100		5.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 91 %

SAMPLE ID LAB : EE-95-31591

MATRIX: SOLID

SAMPLE ID CLIENT: E5-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2400		5.5	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 86 %

SAMPLE ID LAB : EE-95-31592

MATRIX: SOLID

SAMPLE ID CLIENT: S-50/200

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	3500		5.8	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 95 %

SAMPLE ID LAB : EE-95-31593

MATRIX: SOLID

SAMPLE ID CLIENT: S-75/175 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2600		5.3	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 95 %

SAMPLE ID LAB : EE-95-31594

MATRIX: SOLID

SAMPLE ID CLIENT: S-150/250

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2800		5.3	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 95 %

SAMPLE ID LAB : EE-95-31595

MATRIX: SOLID

SAMPLE ID CLIENT: S-100/250 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	18000		5.3	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 97 %

SAMPLE ID LAB : EE-95-31596

MATRIX: SOLID

SAMPLE ID CLIENT: S-175/275

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	50		5.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-31597

%SOLIDS : 92 %

MATRIX: SOLID

SAMPLE ID CLIENT: S-200/275 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	130	-	5.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 98 %

SAMPLE ID LAB : EE-95-31598

MATRIX: SOLID

SAMPLE ID CLIENT: S-150/225 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	820		5.1	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-31599

SAMPLE ID CLIENT: S-75/200

%SOLIDS : 83 %

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	230		6.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 88 %

SAMPLE ID LAB : EE-95-31600

MATRIX: SOLID

SAMPLE ID CLIENT: S-50/175 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	4200		5.7	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-31601

%SOLIDS : 83 %

MATRIX: SOLID

SAMPLE ID CLIENT: S-125/225

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	51	-	6.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 96 %

SAMPLE ID LAB : EE-95-31602

MATRIX: SOLID

SAMPLE ID CLIENT: S-100/225 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	17000		5.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 82 %

SAMPLE ID LAB : EE-95-31603

MATRIX: SOLID

SAMPLE ID CLIENT: S-175/250 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	7100		6.1	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 87 %

SAMPLE ID LAB : EE-95-31604

MATRIX: SOLID

SAMPLE ID CLIENT: S-225/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2900		5.7	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 90 %

SAMPLE ID LAB : EE-95-31605

MATRIX: SOLID

SAMPLE ID CLIENT: S-50/150

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	7100		5.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 83 %

SAMPLE ID LAB : EE-95-31606

MATRIX: SOLID

SAMPLE ID CLIENT: S-200/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	54		6.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 81 %

SAMPLE ID LAB : EE-95-31607

MATRIX: SOLID

SAMPLE ID CLIENT: S-100/200

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	64		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 90 %

SAMPLE ID LAB : EE-95-31608

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #1

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	190000		5.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-31609

SAMPLE ID CLIENT: S-125/250

%SOLIDS : 96 %

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	5200		5.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 90 %

SAMPLE ID LAB : EE-95-31610

MATRIX: SOLID

SAMPLE ID CLIENT: S-125/200 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	3100		5.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 88 %

SAMPLE ID LAB : EE-95-31611

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #2

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	4400		5.7	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 92 %

SAMPLE ID LAB : EE-95-31612

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #1 C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	3200		5.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.882

(mg/kg as received)

Parameter	E & E Laboratory No. 95- 31592	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		3020	8920	98.7*

* = THIS RPD IS NOT WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.882

(mg/kg as received)

Parameter	E & E Laboratory No. 95- 31594	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		2640	3870	37.9

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9501.882

(mg/kg as received)					
Parameter	E & E Laboratory No. 95- 31592	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		3020	4270	10.0	4X

4X = RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE
TIMES GREATER THAN SPIKE AMOUNT.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9501.882

(mg/kg as received)

Parameter	E & E Laboratory No. 95- 31594	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		2640	4090	10.0	4X

4X = RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE
TIMES GREATER THAN SPIKE AMOUNT.

LABORATORY CONTROL SAMPLE I (08/17)

9501.882

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	896	1000	89.6

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE II (08/17)

9501.882

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	956	1000	95.6

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9501.882

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

ecology and environment, inc.
QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 9501.890

Date: 8/30/95

Report Title: Grout Seal

Client: _____

Laboratory Data Review

Supervisor

Date

Metals

RS

8/30/95

Gen. Chem.

GC

GC/MS

Micro, Asbestos

Other

Signature

Date

Report Written by:

UR

8/30/95

1st Draft Reviewed by:

UR

8/30/95

circulated: (no comment)

UR

8/30/95

2nd Draft Reviewed by: (If needed)

Final Review by Author:

ASC Manager:

JK

8/30/95

QA Officer:

JK

8/30/95

Corp. Project Manager: Barb Pick
(Internal Job)

QA 9/1/95

All QA Protocol Review Forms
Signed and in File
(to be signed by report writer)

1 Copies of Report Sent to: client via

JK

8/30/95

1 Invoices Sent to Accounting

JK

8/30/95

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager;
Pink - Project File.

407064

MEMORANDUM

TO: Barb Peck
FROM: Gary Hahn *Gary Hahn kr*
DATE: August 30, 1995
SUBJECT: SD-6000 Ernst Steel Report
RE: 9501.890
CC: Lab File

Attached is the laboratory report of the analysis conducted on nine samples received at the Analytical Services Center on August 18, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 8/21/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure



ecology and environment, inc.

Analytical Services Center

4493 Wakden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852

International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.: 5D6050		Project Name: ERNST STEEL		Project Manager: B. PECK		Field Team Leader: J. PECK		SAMPLERS: (Signatures)		REMARKS	
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION	STATION LOCATION	NUMBER OF CONTAINERS	TOTAL Pb (7421)		
			COMP	GRAB	AIR						
001	8/18	09:00		X		LEAD/CHROMIUM - LOW	STOCK PILE #3	1	✓		CONFIRMATION/SAMPLES
002	8/18	09:01		X			STOCK PILE #4	1			
003	8/18	09:04		X			S-225/350	1			
							S-50/125-SP				
004	8/18	09:06		X			E9-BE	1			
005	8/18	9:08		X			E1-BE-SW	1			
006	8/18	9:10		X			E10-BE	1			
007	8/18	9:13		X			E4-PC	1			
008	8/18	9:18		X			E1-BE-SE	1			
009	8/18	9:20		X			E7-PC	1			
Relinquished By: (Signature) Date/Time: Received By: (Signature) Relinquished By: (Signature) Date/Time: Received By: (Signature) Ship Via: HAND DELIVERED											
Relinquished By: (Signature) Date/Time: Received By: (Signature) Relinquished By: (Signature) Date/Time: Received By: (Signature) BL/Airbill Number: Date: 8/18/95											
Relinquished By: (Signature) Date/Time: 8/18/95 09:15 Received For Laboratory By: (Signature) Relinquished By: (Signature) Date/Time: Received For Laboratory By: (Signature)											

Distribution: Original Accompanies Shipment; Copy to Coordinator Field File

* See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9501.890

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	CLIENT		DATE	DATE	DATE
-	SAMPLE	SAMPLE	SAMPLED	EXTRACTED	ANALYZED
	NUMBER	ID			
	-----	-----	-----	-----	-----
LEAD		(GF) -S			
	31638.01	STOCK PILE #3	08/18/95	08/21/95	08/21/95
	31639.01	STOCK PILE #4	08/18/95	08/21/95	08/21/95
	31640.01	S-225/350	08/18/95	08/21/95	08/21/95
	31641.01	E9-BE	08/18/95	08/21/95	08/21/95
	31642.01	E9-BE-SW	08/18/95	08/21/95	08/21/95
	31643.01	E10-BE	08/18/95	08/21/95	08/21/95
	31644.01	E4-PC	08/18/95	08/21/95	08/21/95
	31645.01	E1-BE-SE	08/18/95	08/21/95	08/21/95
	31646.01	E7-PC	08/18/95	08/21/95	08/21/95
SOLIDS-TOTAL	(MET)	-S			
	31638.01	STOCK PILE #3	08/18/95		08/21/95
	31639.01	STOCK PILE #4	08/18/95		08/21/95
	31640.01	S-225/350	08/18/95		08/21/95
	31641.01	E9-BE	08/18/95		08/21/95
	31642.01	E9-BE-SW	08/18/95		08/21/95
	31643.01	E10-BE	08/18/95		08/21/95
	31644.01	E4-PC	08/18/95		08/21/95
	31645.01	E1-BE-SE	08/18/95		08/21/95
	31646.01	E7-PC	08/18/95		08/21/95

TEST CODE : STSMET1

JOB NUMBER : 9501.890

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-31638		
STOCK PILE #3	91	
EE-95-31639		
STOCK PILE #4	90	
EE-95-31640		
S-225/350	81	
EE-95-31641		
E9-BE	96	
EE-95-31642		
E9-BE-SW	74	
EE-95-31643		
E10-BE	97	
EE-95-31644		
E4-PC	92	
EE-95-31645		
E1-BE-SE	93	
EE-95-31646		
E7-PC	91	

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.890

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	31644	91.8	94.5	2.9

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9501.890

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 91 %

SAMPLE ID LAB : EE-95-31638

MATRIX: SOLID

SAMPLE ID CLIENT: STOCK PILE #3

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	4100		5.5	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.890

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 90 %

SAMPLE ID LAB : EE-95-31639

MATRIX: SOLID

SAMPLE ID CLIENT: STOCK PILE #4

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	4800		5.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.890

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 81 %

SAMPLE ID LAB : EE-95-31640

MATRIX: SOLID

SAMPLE ID CLIENT: S-225/350

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	300		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.890

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 96 %

SAMPLE ID LAB : EE-95-31641

MATRIX: SOLID

SAMPLE ID CLIENT: E9-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	620		5.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.890

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 74 %

SAMPLE ID LAB : EE-95-31642

MATRIX: SOLID

SAMPLE ID CLIENT: E9-BE-SW

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	260		6.8	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.890

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-31643

SAMPLE ID CLIENT: E10-BE

%SOLIDS : 97 %

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	15000		5.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.890

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 92 %

SAMPLE ID LAB : EE-95-31644

MATRIX: SOLID

SAMPLE ID CLIENT: E4-PC

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1200		5.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.890

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 93 %

SAMPLE ID LAB : EE-95-31645

MATRIX: SOLID

SAMPLE ID CLIENT: E1-BE-SE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	16000		5.4	MG/KG

QUALIFIERS: C = COMMENT
J = ESTIMATED VALUE

ND = NOT DETECTED

METALS SECTION

JOB NUMBER :9501.890

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 91 %

SAMPLE ID LAB : EE-95-31646

MATRIX: SOLID

SAMPLE ID CLIENT: E7-PC

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	6100		5.5	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.890

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

ecology and environment, inc.
QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 4501164 Date: 9/14/95
Report Title: _____
Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
<u>Metals</u>	<u>PS</u>	<u>9/15/95</u>
<u>Gen. Chem.</u>		
<u>GC</u>		
<u>GC/MS</u>		
<u>Micro, Asbestos</u>		
<u>Other</u>		

	Signature	Date
Report Written by:	<u>JK</u>	<u>9/14/95</u>
1st Draft Reviewed by:	<u>JK</u>	<u>9/14/95</u>
<u>CIRCULATED</u>	<u>JK</u>	<u>9/14/95</u>
2nd Draft Reviewed by: (If needed)		
Final Review by Author:	<u>JK</u>	<u>9/15/95</u>
ASC Manager:	<u>Mike</u>	<u>9/15/95</u>
QA Officer:		
Corp. Project Manager:	<u>DALE PECK</u>	<u>9/14/95</u>
(Internal Job)		
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
<u>1</u> Copies of Report Sent to:	<u>DALE PECK</u>	<u>9/15/95</u>
<u>1</u> Invoices Sent to Accounting	<u>JK</u>	<u>9/15/95</u>
Comments/Notes:		

Copy Distribution: White - Report to Project File; Canary - Project Manager; 407064
Pink - Project File.

MEMORANDUM

TO: Barb Peck
FROM: Gary Hahn *GH/Hahn/gk*
DATE: September 14, 1995
SUBJECT: SD-6000 Ernst Steel Report
RE: 9501.964
CC: Lab File

Attached is the laboratory report of the analysis conducted on twenty six samples received at the Analytical Services Center on August 25, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 8/28/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure



ecology and environment, inc.

Analytical Services Center

4493 Walden Avenue, Lancaster, New York, 14086 Tel: 716/685-8080, Fax 716/685-0852

International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

9501.964
32022 -

Project No		Project Name		Project Manager		Field Team Leader		REMARKS			
SD 6050		ERNUST STEEL		B. PECK		J. PECK					
Station Number		Date	Time	Sample Type	Expected Compounds (Concentration)*	Station Location	Number of Containers				
				Comp	Grab	Air					
001	8/25/95	18:00		X	LEAD/CHROMIUM - LOW	S-125/275 •	3	✓	TOTAL LEAD (742) INCLUDES MS/MSD INCLUDES MS/MSD INCLUDES MS/MSD		
002		18:02				S-150/225 •	3	✓			
003		18:04				S-225/300 •	3	✓			
004		18:05				S-200/375 •	1	✓			
005		18:06				S-150/300 •	1	✓			
006		18:07				S-200/300 •	1	✓			
007		18:08				S-50/1250P •	1	✓			
008		18:09				S-50/175 •	1	✓			
009		18:10				S-75/175 •	1	✓			
010		18:11				S-100/250 •	1	✓			
011		18:12				S-100/225 •	1	✓			
012		18:13				S-175/250 •	1	✓			
013		18:14				S-200/325 •	1	✓			
014		18:15				S-125/250 •	1	✓			
Relinquished By: (Signature)		Date/Time		Received By: (Signature)		Date/Time		Received By: (Signature)		Ship Via:	
J. PECK		8/25/95		B. PECK		8/25/95					
Relinquished By: (Signature)		Date/Time		Received By: (Signature)		Date/Time		Received By: (Signature)		BL/Airbill Number:	
J. PECK		8/25/95		B. PECK		8/25/95					
Relinquished By: (Signature)		Date/Time		Received For Laboratory By: (Signature)		Date/Time		Received For Laboratory By: (Signature)		Date:	
J. PECK		8/25/95		K. PECK		8/25/95					

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

ecology and environment, inc.

Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

Project No SD 6050		Project Name ERNST STEEL		Project Manager B. PECK		REMARKS TOTAL LEAD (742)							
Samplers (Signatures) J. P. [Signature]		Field Team Leader J. PECK											
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS					
			COMP	GRAB	AIR								
015	8/25/95	18:16		X		LEAD/CHROMIUM - LOW	S-150/250	1					
016		18:17					S-50/200	1					
017		18:18					S-175/300	1					
018		18:19					S-250/350	1					
019		18:20					E6-BE	1					
020		18:21					E5-BE	1					
021		18:22					E3-BE	1					
022		18:23					E4-BE	1					
023		18:24					E7-BE	1					
024		18:25					S-50/150	1					
225		18:27					S-250/325	1					
226		18:33					8/25/95 S-125/300	1					
							E9-BE	1					
Relinquished By (Signature) [Signature]		Date/Time: 8/25/95		Received By (Signature) [Signature]		Relinquished By (Signature)		Date/Time		Received By (Signature)		Ship Via: HAND DELIVER	
Relinquished By (Signature) [Signature]		Date/Time: 8/25/95		Received By (Signature) [Signature]		Relinquished By (Signature)		Date/Time		Received By (Signature)		BL/Airbill Number	
Relinquished By (Signature) [Signature]		Date/Time: 8/25/95 20:15		Received For Laboratory By (Signature) [Signature]		Relinquished By (Signature)		Date/Time		Received For Laboratory By (Signature)		Date: 8/25/95	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9501.964

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
	-----	-----	-----	-----	-----
LEAD		(ICP) -S			
	32022.01	S-125/275	08/25/95	08/26/95	08/28/95
	32023.01	S-150/225	08/25/95	08/26/95	08/28/95
	32024.01	S-225/300	08/25/95	08/26/95	08/28/95
	32025.01	S-200/375	08/25/95	08/26/95	08/28/95
	32026.01	S-150/300	08/25/95	08/26/95	08/28/95
	32027.01	S-200/300	08/25/95	08/26/95	08/28/95
	32028.01	E9-BE	08/25/95	08/26/95	08/28/95
	32029.01	S-50/175	08/25/95	08/26/95	08/28/95
	32030.01	S-75/175	08/25/95	08/26/95	08/28/95
	32031.01	S-100/250	08/25/95	08/26/95	08/28/95
	32032.01	S-100/225	08/25/95	08/26/95	08/28/95
	32033.01	S-175/250	08/25/95	08/26/95	08/28/95
	32034.01	S-200/325	08/25/95	08/26/95	08/28/95
	32035.01	S-125/250	08/25/95	08/26/95	08/28/95
	32036.01	S-150/250	08/25/95	08/26/95	08/28/95
	32037.01	S-50/200	08/25/95	08/26/95	08/28/95
	32038.01	S-175/300	08/25/95	08/26/95	08/28/95
	32039.01	S-250/350	08/25/95	08/26/95	08/28/95
	32040.01	E6-BE	08/25/95	08/26/95	08/28/95
	32041.01	E5-BE	08/25/95	08/26/95	08/28/95
	32042.01	E3-BE	08/25/95	08/26/95	08/28/95
	32043.01	E4-BE	08/25/95	08/26/95	08/28/95
	32044.01	E7-BE	08/25/95	08/26/95	08/28/95
	32045.01	S-50/150	08/25/95	08/26/95	08/28/95
	32046.01	S-250/325	08/25/95	08/26/95	08/28/95
	32047.01	S-125/300	08/25/95	08/26/95	08/28/95
SOLIDS-TOTAL		(MET) -S			
	32022.01	S-125/275	08/25/95		08/30/95
	32023.01	S-150/225	08/25/95		08/30/95
	32024.01	S-225/300	08/25/95		08/30/95
	32025.01	S-200/375	08/25/95		08/30/95
	32026.01	S-150/300	08/25/95		08/30/95
	32027.01	S-200/300	08/25/95		08/30/95
	32028.01	E9-BE	08/25/95		08/30/95
	32029.01	S-50/175	08/25/95		08/30/95
	32030.01	S-75/175	08/25/95		08/30/95
	32031.01	S-100/250	08/25/95		08/30/95
	32032.01	S-100/225	08/25/95		08/30/95
	32033.01	S-175/250	08/25/95		08/30/95
	32034.01	S-200/325	08/25/95		08/30/95
	32035.01	S-125/250	08/25/95		08/30/95
	32036.01	S-150/250	08/25/95		08/30/95
	32037.01	S-50/200	08/25/95		08/30/95
	32038.01	S-175/300	08/25/95		08/30/95
	32039.01	S-250/350	08/25/95		08/30/95
	32040.01	E6-BE	08/25/95		08/30/95

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

JOB NUMBER : 9501.964

	CLIENT				
-	SAMPLE	SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
	-----	-----	-----	-----	-----
SOLIDS-TOTAL (MET)		-S			
32041.01	E5-BE		08/25/95		08/30/95
32042.01	E3-BE		08/25/95		08/30/95
32043.01	E4-BE		08/25/95		08/30/95
32044.01	E7-BE		08/25/95		08/30/95
32045.01	S-50/150		08/25/95		08/30/95
32046.01	S-250/325		08/25/95		08/30/95
32047.01	S-125/300		08/25/95		08/30/95

TEST CODE : STSMET1

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-32022		
S-125/275	86	
EE-95-32023		
S-150/225	89	
EE-95-32024		
S-225/300	82	
EE-95-32025		
S-200/375	76	
EE-95-32026		
S-150/300	85	
EE-95-32027		
S-200/300	82	
EE-95-32028		
E9-BE	86	
EE-95-32029		
S-50/175	84	
EE-95-32030		
S-75/175	82	
EE-95-32031		
S-100/250	85	
EE-95-32032		
S-100/225	83	
EE-95-32033		
S-175/250	84	
EE-95-32034		
S-200/325	94	

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

TEST CODE :STSMET1

JOB NUMBER :9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-32035		
S-125/250	83	
EE-95-32036		
S-150/250	84	
EE-95-32037		
S-50/200	81	
EE-95-32038		
S-175/300	90	
EE-95-32039		
S-250/350	80	
EE-95-32040		
E6-BE	88	
EE-95-32041		
E5-BE	88	
EE-95-32042		
E3-BE	90	
EE-95-32043		
E4-BE	84	
EE-95-32044		
E7-BE	82	
EE-95-32045		
S-50/150	91	
EE-95-32046		
S-250/325	86	
EE-95-32047		
S-125/300	81	

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF LIQUID SAMPLES

9501.964

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	32031	85.0	84.9	0.2
	32040	88.1	88.9	0.8

THESE RPDs ARE WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 87 %

SAMPLE ID LAB : EE-95-32022

MATRIX: SOLID

SAMPLE ID CLIENT: S-125/275

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	11		5.7	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 89 %

SAMPLE ID LAB : EE-95-32023

MATRIX: SOLID

SAMPLE ID CLIENT: S-150/225

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	97		5.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-32024

SAMPLE ID CLIENT: S-225/300

%SOLIDS : 82 %

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	14		6.1	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 76 %

SAMPLE ID LAB : EE-95-32025

MATRIX: SOLID

SAMPLE ID CLIENT: S-200/375

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	26		6.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 85 %

SAMPLE ID LAB : EE-95-32026

MATRIX: SOLID

SAMPLE ID CLIENT: S-150/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	14		5.9	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 82 %

SAMPLE ID LAB : EE-95-32027

MATRIX: SOLID

SAMPLE ID CLIENT: S-200/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	16		6.1	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 86 %

SAMPLE ID LAB : EE-95-32028

MATRIX: SOLID

SAMPLE ID CLIENT: E9-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	22		5.8	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 84 %

SAMPLE ID LAB : EE-95-32029

MATRIX: SOLID

SAMPLE ID CLIENT: S-50/175

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	970		6.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 85 %

SAMPLE ID LAB : EE-95-32031

MATRIX: SOLID

SAMPLE ID CLIENT: S-100/250

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	24		5.9	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-32032

%SOLIDS : 83 %

MATRIX: SOLID

SAMPLE ID CLIENT: S-100/225

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	47	-	6.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 84 %

SAMPLE ID LAB : EE-95-32033

MATRIX: SOLID

SAMPLE ID CLIENT: S-175/250

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	77		6.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-32034

SAMPLE ID CLIENT: S-200/325

%SOLIDS : 94 %

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	91	-	5.3	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 83 %

SAMPLE ID LAB : EE-95-32035

MATRIX: SOLID

SAMPLE ID CLIENT: S-125/250

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	23		6.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 84 %

SAMPLE ID LAB : EE-95-32036

MATRIX: SOLID

SAMPLE ID CLIENT: S-150/250

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	18		6.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 81 %

SAMPLE ID LAB : EE-95-32037

MATRIX: SOLID

SAMPLE ID CLIENT: S-50/200

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	25		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 90 %

SAMPLE ID LAB : EE-95-32038

MATRIX: SOLID

SAMPLE ID CLIENT: S-175/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	50		5.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 80 %

SAMPLE ID LAB : EE-95-32039

MATRIX: SOLID

SAMPLE ID CLIENT: S-250/350

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	36		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 88 %

SAMPLE ID LAB : EE-95-32040

MATRIX: SOLID

SAMPLE ID CLIENT: E6-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	82	-	5.7	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 88 %

SAMPLE ID LAB : EE-95-32041

MATRIX: SOLID

SAMPLE ID CLIENT: E5-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	9.9		5.7	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 90 %

SAMPLE ID LAB : EE-95-32042

MATRIX: SOLID

SAMPLE ID CLIENT: E3-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	420		5.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 84 %

SAMPLE ID LAB : EE-95-32043

MATRIX: SOLID

SAMPLE ID CLIENT: E4-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	25		6.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 82 %

SAMPLE ID LAB : EE-95-32044

MATRIX: SOLID

SAMPLE ID CLIENT: E7-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	17		6.1	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 91 %

SAMPLE ID LAB : EE-95-32045

MATRIX: SOLID

SAMPLE ID CLIENT: S-50/150

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	3500		5.5	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 86 %

SAMPLE ID LAB : EE-95-32046

MATRIX: SOLID

SAMPLE ID CLIENT: S-250/325

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	1100		5.8	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 81 %

SAMPLE ID LAB : EE-95-32047

MATRIX: SOLID

SAMPLE ID CLIENT: S-125/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	110		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF LIQUID SAMPLES

9501.964

(mg/kg)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead	32022	9.83	17.2	54
Lead	32023	86.1	46.6	64
Lead	32024	11.7	12.9	9.8

THESE RPDs ARE WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED LIQUID SAMPLES

9501.964

(mg/kg)

Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	32022	9.83	69.7	50	120
Lead	32023	86.1	119	50	65.8
Lead	32024	11.7	70.9	50	118

THESE RECOVERIES ARE WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE I (08/26)

9501.964

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1200	1000	120

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE II (08/26)

9501.964

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1200	1000	120

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9501.964

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

ecology and environment, inc.
QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 151-1181

Date: 1/5/95

Report Title:

Client:

Laboratory Data Review

Supervisor

Date

Metals

RS

9/6/95

Gen. Chem.

GC

GC/MS

Micro, Asbestos

Other

Signature

Date

Report Written by:

1st Draft Reviewed by:

2nd Draft Reviewed by: (If needed)

Final Review by Author:

ASC Manager:

QA Officer:

Corp. Project Manager: [Signature]
(Internal Job)

All QA Protocol Review Forms
Signed and in File
(to be signed by report writer)

1 Copies of Report Sent to: [Signature]

1 Invoices Sent to Accounting [Signature]

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager;
Pink - Project File.

407064

MEMORANDUM

TO: Barb Peck
FROM: Gary Hahn *Gary Hahn kr*
DATE: September 5, 1995
SUBJECT: SD-6000 Ernst Steel Report
RE: 9501.981
CC: Lab File

Attached is the laboratory report of the analysis conducted on nine samples received at the Analytical Services Center on August 29, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 8/30/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.: <u>SD6050</u>			Project Name: <u>ERNST STEEL</u>			Project Manager: <u>B. PELK</u>			<div style="text-align: center;">REMARKS</div>																			
Samples: (Signatures) <u>[Signature]</u>			Field Team Leader: <u>John PELK</u>																									
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION	STATION LOCATION	NUMBER OF CONTAINERS	TOTAL LEAD (ppb)																			
			COMP	GRAB	AIR																							
001	8/29/95	09:55		X		LEAD/CHROMIUM - MED (3000 ppm)	BACKGROUND #3	1	✓																			
002	8/29/95	10:00					BACKGROUND #1	1	✓																			
003		10:03					BACKGROUND #2	1	✓																			
004		10:05					S-175/225 P	1	✓																			
005		10:12					S-200/385 P	1	✓																			
006		10:16					S-225/372 P	1	✓																			
007		10:19					S-250/354 P	1	✓																			
008		10:28					S-12/250 (T)	1	✓																			
009		10:34					S-15/200 (T)	1	✓																			
<u>JP 8/29/95</u>																												
Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			Ship Via:										
Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			HAND DELIVERED										
Relinquished By: (Signature)			Date/Time: <u>8/29/95</u>			Received For Laboratory By: (Signature)			Relinquished By: (Signature)			Date/Time:			Received For Laboratory By: (Signature)			BL/Airbill Number <u> </u> Date: <u>8/29/95</u>										

Distribution: Original Accompanies Shipments, Copy to Coordinator Field File

*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9501.981

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

-	SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
	-----	-----	-----	-----	-----
LEAD		(ICP) -S			
	32129.01	BACKGROUND #1	08/29/95	08/29/95	08/30/95
	32130.01	BACKGROUND #2	08/29/95	08/29/95	08/30/95
	32131.01	BACKGROUND #3	08/29/95	08/29/95	08/30/95
	32132.01	S-12/250	08/29/95	08/29/95	08/30/95
	32133.01	S-15/200	08/29/95	08/29/95	08/30/95
	32134.01	S-175/225	08/29/95	08/29/95	08/30/95
	32135.01	S-200/385	08/29/95	08/29/95	08/30/95
	32136.01	S-225/372	08/29/95	08/29/95	08/30/95
	32137.01	S-250/355	08/29/95	08/29/95	08/30/95
SOLIDS-TOTAL		(MET) -S			
	32129.01	BACKGROUND #1	08/29/95		08/30/95
	32130.01	BACKGROUND #2	08/29/95		08/30/95
	32131.01	BACKGROUND #3	08/29/95		08/30/95
	32132.01	S-12/250	08/29/95		08/30/95
	32133.01	S-15/200	08/29/95		08/30/95
	32134.01	S-175/225	08/29/95		08/30/95
	32135.01	S-200/385	08/29/95		08/30/95
	32136.01	S-225/372	08/29/95		08/30/95
	32137.01	S-250/355	08/29/95		08/30/95

TEST CODE : STSMET1

JOB NUMBER : 9501.981

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-32129		
BACKGROUND #1	99	
EE-95-32130		
BACKGROUND #2	98	
EE-95-32131		
BACKGROUND #3	98	
EE-95-32132		
S-12/250	95	
EE-95-32133		
S-15/200	99	
EE-95-32134		
S-175/225	93	
EE-95-32135		
S-200/385	91	
EE-95-32136		
S-225/372	93	
EE-95-32137		
S-250/355	72	

QUALIFIERS: C = COMMENT
J = ESTIMATED VALUE

ND = NOT DETECTED

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.981

(%)				
Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	32131	97.8	97.8	0.0

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9501.981

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 99 %

SAMPLE ID LAB : EE-95-32129

MATRIX: SOLID

SAMPLE ID CLIENT: BACKGROUND #1

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	21		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.981

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 99 %

SAMPLE ID LAB : EE-95-32130

MATRIX: SOLID

SAMPLE ID CLIENT: BACKGROUND #2

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	38		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.981

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 98 %

SAMPLE ID LAB : EE-95-32131

MATRIX: SOLID

SAMPLE ID CLIENT: BACKGROUND #3

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	460		5.1	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.981

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 95 %

SAMPLE ID LAB : EE-95-32132

MATRIX: SOLID

SAMPLE ID CLIENT: S-12/250

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	47		5.3	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.981

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 99 %

SAMPLE ID LAB : EE-95-32133

MATRIX: SOLID

SAMPLE ID CLIENT: S-15/200

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	970		5.0	MG/KG

QUALIFIERS: C = COMMENT
J = ESTIMATED VALUE

ND = NOT DETECTED

METALS SECTION

JOB NUMBER :9501.981

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 93 %

SAMPLE ID LAB : EE-95-32134

MATRIX: SOLID

SAMPLE ID CLIENT: S-175/225

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	440		5.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.981

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-32135

%SOLIDS : 91 %

MATRIX: SOLID

SAMPLE ID CLIENT: S-200/385

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1200		5.5	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.981

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 93 %

SAMPLE ID LAB : EE-95-32136

MATRIX: SOLID

SAMPLE ID CLIENT: S-225/372

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	35		5.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.981

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 72 %

SAMPLE ID LAB : EE-95-32137

MATRIX: SOLID

SAMPLE ID CLIENT: S-250/355

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	1700		6.9	MG/KG

QUALIFIERS: C = COMMENT.

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.981

(mg/kg as received)

Parameter	E & E Laboratory No. 95- 32137	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		1230	1090	12.0

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9501.981

(mg/kg as received)

Parameter	E & E Laboratory No. 95- 31237	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		1230	1260	50	4X

4X = RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE
TIMES GREATER THAN SPIKE AMOUNT.

LABORATORY CONTROL SAMPLE (08/29)

9501.981

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	894	1000	89.4

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9501.981

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK (1192)

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

ecology and environment, inc.
QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 9502.145 Date: 9/14/95
Report Title: _____
Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
<u>Metals</u>	<u>AS</u>	<u>9/19/95</u>
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

Report Written by: _____ Signature _____ Date 9/19/95
1st Draft Reviewed by: CIRCUMATED _____ Signature _____ Date 9/19/95
2nd Draft Reviewed by: (If needed) _____ Signature _____ Date 9/19/95

Final Review by Author: _____ Signature _____ Date 9/20/95
ASC Manager: _____ Signature _____ Date 9-20-95
QA Officer: _____ Signature _____ Date 10/2/95
Corp. Project Manager: DAVE ALBERS _____ Signature _____ Date 10/2/95
(Internal Job)

All QA Protocol Review Forms
Signed and in File
(to be signed by report writer)

1 Copies of Report Sent to: DAVE ALBERS _____ Signature _____ Date 9/20/95
1 Invoices Sent to Accounting _____ Signature _____ Date 9/20/95

Comments/Notes: _____

Copy Distribution: White - Report to Project File; Canary - Project Manager; 407064
Pink - Project File.

MEMORANDUM

TO: Dave Albers
FROM: Gary Hahn *G. Hahn*
DATE: September 19, 1995
SUBJECT: SD-6000 Ernst Steel Report
RE: 9502.145
CC: Lab File

Attached is the laboratory report of the analysis conducted on three samples received at the Analytical Services Center on September 15, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 9/18/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure



4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685-8080, Fax 716/685-0852

International Specialists in the Environment

Page 1 of 1

9-15-95

Project No. SD-6050			Project Name ERNST STEEL SITE			Project Manager B. PECK									
Samplers (Signatures) <i>Bill McGuire</i>						Field Team Leader J. PECK									
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CON- TAINERS	REMARKS						
			COMP	GRAB	AIR										
1	9/15	4:15		X		LOW LEVEL LEAD (TCL)	E-11-BE	1	<div style="text-align: center;"> <p>total lead TCL = (LEAD)</p> </div> <p>Bottom EXCAVATION: MS/MSD Bottom EXCAVATION. Bottom EXCAVATION.</p>						
2	9/15	4:20		X			E11-BE MS/MSD	1							
3	9/15	4:30		X			S-50/150	1							
4	9/15	4:35		X			S-50/175	1							
<div style="text-align: center;"> <p><i>Bill McGuire</i> 9-15-95</p> </div>															
Relinquished By: (Signature)		Date/Time	Received By: (Signature)		Date/Time	Relinquished By: (Signature)		Date/Time	Received By: (Signature)		Date/Time	Received By: (Signature)		Date/Time	Ship Via:
Relinquished By: (Signature)		Date/Time	Received By: (Signature)		Date/Time	Relinquished By: (Signature)		Date/Time	Received By: (Signature)		Date/Time	Received By: (Signature)		Date/Time	Ship Via:
Relinquished By: (Signature)		Date/Time	Received For Laboratory By: (Signature)		Date/Time	Relinquished By: (Signature)		Date/Time	Received For Laboratory By: (Signature)		Date/Time	Received For Laboratory By: (Signature)		Date/Time	Ship Via:
<i>Bill McGuire</i>		9-15-95 4:55	<i>Bill McGuire</i>		9-15-95 4:55	<i>Bill McGuire</i>		9-15-95 4:55	<i>Bill McGuire</i>		9-15-95 4:55	<i>Bill McGuire</i>		9-15-95 4:55	N/A

Distribution / Original Accompanies Shipment, Copy to Coordinator Field Files

* See CONCENTRATION RANGE on back of form.

0571194

TEST CODE : STSMET1

JOB NUMBER : 9502.145

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
-----------	---------	---

EE-95-33025

E-11-BE

86

EE-95-33026

S-50//50

88

EE-95-33027

S-50/175

83

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

JOB NUMBER : 9502.145

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

-	SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
	-----	-----	-----	-----	-----
LEAD		(ICP) -S			
	33025.01	E-11-BE	09/15/95	09/18/95	09/18/95
	33026.01	S-50//50	09/15/95	09/18/95	09/18/95
	33027.01	S-50/175	09/15/95	09/18/95	09/18/95
SOLIDS-TOTAL (MET)		-S			
	33025.01	E-11-BE	09/15/95		09/18/95
	33026.01	S-50//50	09/15/95		09/18/95
	33027.01	S-50/175	09/15/95		09/18/95

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.145

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	33025	86.3	86.4	0.1

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9502.145

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 86 %

SAMPLE ID LAB : EE-95-33025

MATRIX: SOLID

SAMPLE ID CLIENT: E-11-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	38		5.8	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.145

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-33026

SAMPLE ID CLIENT: S-50//50

%SOLIDS : 88 %

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	29		5.7	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.145

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 83 %

SAMPLE ID LAB : EE-95-33027

MATRIX: SOLID

SAMPLE ID CLIENT: S-50/175

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	24		6.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.145

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead	33025	32.9	27.5	17.9

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9502.145

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	33025	32.9	66.8	50	67.8

THIS RECOVERY IS NOT WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR POST SPIKED SOLID SAMPLES

9502.145

(mg/kg as received)					
Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	33025	32.9	87.3	50	109

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE II (09/18)

9502.145

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	997	1000	99.7

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9502.145

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

ecology and environment, inc.
QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 9502.11.3 Date: 9/28/95
Report Title: _____
Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
<u>Metals</u>	<u>JK</u>	<u>9/28/95</u>
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	<u>JK</u>	<u>9/28/95</u>
1st Draft Reviewed by:	<u>JK</u>	<u>9/28/95</u>
<u>CIRCULATED</u>	<u>JK</u>	<u>9/28/95</u>
2nd Draft Reviewed by: (If needed)		
Final Review by Author:	<u>JK</u>	<u>9/29/95</u>
ASC Manager:	<u>JK</u>	<u>9/28/95</u>
QA Officer:		
Corp. Project Manager: <u>DAVE ALBERS</u>	<u>DAVE ALBERS</u>	<u>9/29/95</u>
(Internal Job)		
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
<u>1</u> Copies of Report Sent to:	<u>JK</u>	<u>9/29/95</u>
<u>1</u> Invoices Sent to Accounting	<u>JK</u>	<u>9/29/95</u>
Comments/Notes:		

Copy Distribution: White - Report to Project File; Canary - Project Manager; 407064
Pink - Project File.

MEMORANDUM

TO: Dave Albers
FROM: Gary Hahn *G. Hahn*
DATE: September 28, 1995
SUBJECT: SD-6000 Ernst Steel Report
RE: 9502.153
CC: Lab File

Attached is the laboratory report of the analysis conducted on two samples received at the Analytical Services Center on September 19, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 9/19/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure



ecology and environment, inc.

Analytical Services Center

4493 Walden Avenue, Lancaster, New York, 14086, Tel: 716/685-8080, Fax 716/685-0852

International Specialists in the Environment

9-19-95

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No. SD-6050		Project Name: ERNST STEEL SITE			Project Manager: D. RIBBERS X2404		REMARKS ASAP!!! TOL-LEAD ONLY QUICKS TURNAROUND REQUIRED by 9-20-95 (AM) MORNING TO D. RIBBERS FFE X-2404 ANY QUESTIONS. 9502.163									
Samplers: (Signatures) Dillab Mayfield					Field Team Leader: J. PECK											
STATION NUMBER		DATE	TIME	SAMPLE TYPE COMP GRAB AIR		SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*										
1	9/19	11:30		X			LOW LEVEL LEAD...	E11-PV	492	1						
2	9/19	11:33		X			" " "	E11-PS		1						
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via:				
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number:				
Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date:				

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9502.163

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	SAMPLE	CLIENT SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
	-----	-----	-----	-----	-----
LEAD		(ICP) -S			
	33133.01	E11-PN	09/19/95	09/19/95	09/19/95
	33134.01	E11-PS	09/19/95	09/19/95	09/19/95
SOLIDS-TOTAL (MET)		-S			
	33133.01	E11-PN	09/19/95		09/19/95
	33134.01	E11-PS	09/19/95		09/19/95

TEST CODE :STSMET1

JOB NUMBER :9502.163

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
-----------	---------	---

EE-95-33133

E11-PN

88

EE-95-33134

E11-PS

84

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.163

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	33133	88.2	87.6	0.7

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9502.163

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 88 %

SAMPLE ID LAB : EE-95-33133

MATRIX: SOLID

SAMPLE ID CLIENT: E11-PN

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	50		5.7	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.163

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 84 %

SAMPLE ID LAB : EE-95-33134

MATRIX: SOLID

SAMPLE ID CLIENT: E11-PS

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	43		6.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.163

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

ecology and environment, inc.
QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 9502.831

Date: 12/14/95

Report Title: Cast Steel

Client: _____

Laboratory Data Review

Supervisor

Date

Metals

Gen. Chem.

GC

GC/MS

Micro, Asbestos

Other

RS

12/14/95

Signature

Date

Report Written by:

UP

12/14/95

1st Draft Reviewed by:

UP

12/14/95

circulated (1:30pm)

UP

12/14/95

2nd Draft Reviewed by: (If needed)

Final Review by Author:

ASC Manager:

QA Officer:

Corp. Project Manager: Lane Albers
(Internal Job)

sign e. l. t. x
All QA Protocol Review Forms
Signed and in File
(to be signed by report writer)

1 Copies of Report Sent to: client via

1 Invoices Sent to Accounting have Albers

Comments/Notes: _____

Copy Distribution: White - Report to Project File; Canary - Project Manager;
Pink - Project File.

407064

MEMORANDUM

TO: Dave Albers
FROM: Gary Hahn *Gary Hahn kr*
DATE: December 14, 1995
SUBJECT: SD-6000 Ernst Steel Report
RE: 9502.831
CC: Lab File

Attached is the laboratory report of the analysis conducted on one sample received at the Analytical Services Center on December 8, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 12/12/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure



ecology and environment, inc.

Analytical Services Center

4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852

International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.: SD-6050		Project Name: ERNST STEEL SITE		Project Manager: DAVE ALBERS (FEST 2404)		<div style="text-align: center;">REMARKS</div> <div style="text-align: center; border: 1px solid black; padding: 5px;">TCL-LEAD</div>															
Samplers: (Signatures) Ric Marquez		Sample Date: 12-7-95		Field Team Leader: J. PECK																	
STATION NUMBER		DATE	TIME	COMP	SAMPLE TYPE GRAB											AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*		STATION LOCATION		NUMBER OF CON-TAINERS
1		12/8	11:19		X		LOW LEVEL LEAD (TCL)		E-1e		1	EXCAVATION #1 EAST ELEVATION									
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via: N/a									
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number: N/a									
Relinquished By: (Signature) Ric Marquez		Date/Time: 12/8/95 1:25 PM		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date: 12-8-95									

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9502.831

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	CLIENT				
-	SAMPLE	SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
	-----	-----	-----	-----	-----
LEAD		(ICP) -S			
37179.01	E-1E		12/07/95	12/08/95	12/11/95
SOLIDS-TOTAL (MET)		-S			
37179.01	E-1E		12/07/95		12/09/95

TEST CODE : STSMET1

JOB NUMBER : 9502.831

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-37179		
E-1E	85	

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.831

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	37179	85.4	84.6	0.9

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9502.831

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 85 %

SAMPLE ID LAB : EE-95-37179

MATRIX: SOLID

SAMPLE ID CLIENT: E-1E

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	29		5.9	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.831

(mg/kg as received)				
<hr/>				
	E & E Laboratory			Relative
	No. 95-	Sample	Duplicate	Percent
Parameter	37179	Result	Result	Difference
<hr/>				
Lead		25.0	24.5	2.0
<hr/>				

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9502.831

(mg/kg as received)					
Parameter	E & E Laboratory No. 95- 37179	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		25.0	62.2	50	74.4

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (104)

9502.831

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1000	1000	100

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9502.831

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK (104)

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

ecology and environment, inc.
QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 9600.128

Date: 1-26-96

Report Title: _____

Client: _____

ERNST STEEL

Laboratory Data Review	Supervisor	Date
<u>Metals</u>	<u>PS</u>	<u>1/29/96</u>
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	<u>RLH</u>	<u>1-26-96</u>
1st Draft Reviewed by:	<u>RLH</u>	<u>1-26-96</u>
<u>Circulated:</u>	<u>RLH</u>	<u>1-26-96</u>
2nd Draft Reviewed by: (If needed)		
Final Review by Author:		
ASC Manager:		
QA Officer:		
Corp. Project Manager:		
(Internal Job)		
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
Copies of Report Sent to: <u>client via</u>	<u>JK</u>	<u>1/30/96</u>
<u>D. Albers</u>	<u>JK</u>	<u>1/30/96</u>
Invoices Sent to Accounting		
Comments/Notes:		

Copy Distribution: White - Report to Project File; Canary - Project Manager;
Pink - Project File.

407064

MEMORANDUM

TO: Dave Albers

FROM: Gary Hahn

DATE: January 26, 1996

SUBJECT: SD-6000 Ernst Steel

RE: 9600.128

CC: Lab File

Attached is the laboratory report of the analysis conducted on three samples received at the Analytical Services Center on January 23, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/rh
Enclosure



4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

Page 7 of 7

Distribution/Original Accompanies Shipment; Copy to Coordinator Field Files

0571194

JOB NUMBER : 9600.128

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

-	SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
	-----	-----	-----	-----	-----
LEAD		(ICP) -S			
	38753.01	EXCAVATION #12 (DUP)	01/22/96	01/24/96	01/24/96
	38754.01	EXCAVATION #12B	01/23/96	01/24/96	01/24/96
	38755.01	EXCAVATION #10 B	01/23/96	01/24/96	01/24/96
SOLIDS-TOTAL (MET)		-S			
	38753.01	EXCAVATION #12 (DUP)	01/22/96		01/24/96
	38754.01	EXCAVATION #12B	01/23/96		01/24/96
	38755.01	EXCAVATION #10 B	01/23/96		01/24/96

TEST CODE : STSMET1

JOB NUMBER : 9600.128

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
-----------	---------	---

EE-96-38753

EXCAVATION #12 (DUP)	78	
----------------------	----	--

EE-96-38754

EXCAVATION #12B	76	
-----------------	----	--

EE-96-38755

EXCAVATION #10 B	90	
------------------	----	--

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9600.128

(%)				
Parameter	E & E Laboratory No. 96-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	38753	77.6	76.6	1.3

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9600.128

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 78 %

SAMPLE ID LAB : EE-96-38753

MATRIX: SOLID

SAMPLE ID CLIENT: EXCAVATION #12 (DUP)

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	420		6.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9600.128

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 76 %

SAMPLE ID LAB : EE-96-38754

MATRIX: SOLID

SAMPLE ID CLIENT: EXCAVATION #12B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	280		6.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9600.128

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 90 %

SAMPLE ID LAB : EE-96-38755

MATRIX: SOLID

SAMPLE ID CLIENT: EXCAVATION #10 B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1800		5.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9600.128

(mg/kg as received)

Parameter	E & E Laboratory No. 96- 38753	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		324	510	44.6

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9600.128

(mg/kg as received)					
<hr/>					
Parameter	E & E Laboratory No. 96- 38753	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		324	463	50	4X

4X = PERCENT RECOVERY IS NOT DETERMINED BECAUSE SAMPLE AMOUNT IS
FOUR OR MORE TIMES GREATER THAN SPIKE AMOUNT.

LABORATORY CONTROL SAMPLE (238)

9600.128

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	992	1000	99.2

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9600.128

ELAP ID : 10486

Ecology and Environment, Inc.

Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

ecology and environment, inc.
QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 4660.222 Date: 2/13/76

Report Title: _____

Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
Metals		
Gen. Chem.		
GC	<u>CL</u>	<u>2/13/76</u>
GC/MS		
Micro, Asbestos		
Other		

Report Written by: _____

1st Draft Reviewed by: _____

2nd Draft Reviewed by: (If needed) _____

Final Review by Author: _____

ASC Manager: _____

QA Officer: _____

Corp. Project Manager:
(Internal Job)

DAVE ALBERS QA

2-16-76

All QA Protocol Review Forms
Signed and in File
(to be signed by report writer)

1 Copies of Report Sent to: DAVE ALBERS

1 Invoices Sent to Accounting

Comments/Notes: _____

Copy Distribution: White - Report to Project File; Canary - Project Manager;
Pink - Project File.

407064

MEMORANDUM

TO: Dave Albers
FROM: Gary Hahn *G. Hahn*
DATE: February 13, 1996
SUBJECT: SD-6000 Ernst Steel
RE: 9600.222
CC: Lab File

Attached is the laboratory report of the analysis conducted on three samples received at the Analytical Services Center on February 08, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

Facsimiles of draft results were sent to you you on 02/12/96 and 02/13/96.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure

2577

ecology and environment, inc.

Analytical Services Center

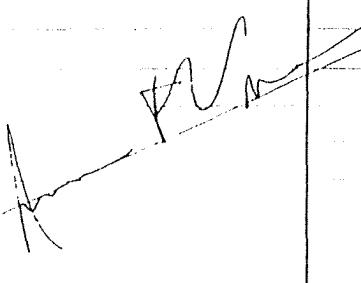
4493 Walden Avenue, Lancaster New York 14086 Tel 716 685 8080 Fax 716 685 0852

International Specialists in the Environment

Rusit - 48 hr TURNAROUND

CHAIN OF CUSTODY RECORD

Page 1 of 1

Project No SD6050			Project Name ERNST STRUB SITE			Project Manager D. ALBERS			REMARKS														
Samplers (Signatures) <i>[Signature]</i>			Field Team Leader J. VAETH																				
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	PCB														
			COMP	GRAB	AIR																		
1	7/8	0755				PCB (Low)	ESS-610-1	1	X						STOCKPILE 610								
2	7/8	0830				PCB (Low)	ESS-610-2	1	X						STOCKPILE 610								
																							
Relinquished By (Signature) <i>[Signature]</i>			Date/Time 2/8/96 0830			Received By (Signature)			Relinquished By (Signature)			Date/Time			Received By (Signature)			Ship Via					
Relinquished By (Signature)			Date/Time			Received By (Signature)			Relinquished By (Signature)			Date/Time			Received By (Signature)			BL/Airbill Number			Date		
Relinquished By (Signature)			Date/Time			Received For Laboratory By (Signature)			Relinquished By (Signature)			Date/Time 2-8-96 8:30			Received For Laboratory By (Signature) <i>Tony Bogdan</i>								

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files

* See CONCENTRATION RANGE on back of form

0571194

JOB NUMBER : 9600.222

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	CLIENT		DATE	DATE	DATE
-	SAMPLE	SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
	-----	-----	-----	-----	-----
8080 PCB					
	39338.01	ESS-E10-1	02/08/96	02/08/96	02/09/96
	39339.01	ESS-E10-2	02/08/96	02/08/96	02/08/96
CLP SOLIDS-TOTAL					
	39338.01	ESS-E10-1	02/08/96		02/08/96
	39339.01	ESS-E10-2	02/08/96		02/08/96

TEST CODE :STSCLP1

JOB NUMBER :9600.222

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : CLP SOLIDS-TOTAL

UNITS : %

PARAMETER : SOLIDS - TOTAL

SAMPLE ID	RESULTS	Q
-----------	---------	---

EE-96-39338		
-------------	--	--

ESS-E10-1	74	
-----------	----	--

EE-96-39339		
-------------	--	--

ESS-E10-2	65	
-----------	----	--

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9600.222

(%)

Parameter	E & E Laboratory No. 96-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	39339	65.3	76.3	15.6

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

TEST CODE :SPCB 1

JOB NUMBER :9600.222

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 74 %

TEST NAME : 8080 PCB

UNITS : MG/KG

SAMPLE ID LAB : EE-96-39338

MATRIX : SOLID

SAMPLE ID CLIENT: ESS-E10-1

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.027
PCB-1254	0.18		0.027
PCB-1221	ND		0.027
PCB-1232	ND		0.027
PCB-1248	ND		0.027
PCB-1260	ND		0.027
PCB-1016	ND		0.027

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :SPCB 1

JOB NUMBER :9600.222

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 65 %

TEST NAME : 8080 PCB

UNITS : MG/KG

SAMPLE ID LAB : EE-96-39339

MATRIX : SOLID

SAMPLE ID CLIENT: ESS-E10-2

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.031
PCB-1254	0.11		0.031
PCB-1221	ND		0.031
PCB-1232	ND		0.031
PCB-1248	ND		0.031
PCB-1260	ND		0.031
PCB-1016	ND		0.031

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD)
(Sample # 39339)

9600.222

(mg/kg as received)								
Parameter	Original Result	Amount Added		Amount Determined		Percent Recovery		
		MS	MSD	MS	MSD	MS	MSD	RPD
PCB-1242	ND	0.333	0.333	0.363	0.341	109	102	6.6

THESE RECOVERIES AND RPD ARE WITHIN E & E, INC. QC TARGETS.

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES
Laboratory Control Sample (6179)

9600.222

(mg/kg)

Parameter	Amount Added	Amount Determined	Percent Recovery
PCB-1242	0.333	0.357	107

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT
RECOVERY OF SURROGATE SPIKES

9600.222

Compound	E & E Laboratory No. 96-	Percent Recovery
<hr/>		
Tetra-chloro-m-xylene	39338	112
	39339	111
	39339 MS	138
	39339 MSD	136
	Method Blank (6180)	131
	LCS (6179)	144
Decachlorobiphenyl	39338	120
	39339	129
	39339 MS	147
	39339 MSD	137
	Method Blank (6180)	159*
	LCS (6179)	168*

WITH THE EXCEPTION OF THOSE RECOVERIES FLAGGED (*), THESE RECOVERIES ARE
WITHIN E & E, INC. QC TARGETS (60%-150%).

MS = MATRIX SPIKE

MSD = MATRIX SPIKE DUPLICATE

LCS = LABORATORY CONTROL SAMPLE

TEST CODE :SPCB 1

JOB NUMBER :9600.222

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 65 %

TEST NAME : 8080 PCB

UNITS : MG/KG

SAMPLE ID LAB : METHOD BLANK (6180)

MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.020
PCB-1254	ND		0.020
PCB-1221	ND		0.020
PCB-1232	ND		0.020
PCB-1248	ND		0.020
PCB-1260	ND		0.020
PCB-1016	ND		0.020

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

APPENDIX H

B&A'S MARCH 14, 1996 LETTER TO BENDERSON DEVELOPMENT CO., INC.

BARRON & ASSOCIATES, P.C.

10440 Main Street
Clarence, New York 14031

Tel: (716) 759-7821

Fax: (716) 759-7823

March 14, 1996

Benderson Development Company, Inc.
570 Delaware Avenue
Buffalo, New York 14202

Job No.: 96-1229

ATTN: Mr. Clark Martens

RE: *Submittal; Field Inspection, Site Remediation Program, 1746 Walden Avenue, Cheektowaga, New York*

Ladies and Gentlemen:

Barron & Associates, P.C. (B&A) performed a field inspection at the above referenced site on March 14, 1996. In attendance were Richard L. Crouch, *B&A*, and Kevin Glaser, New York State Department of Environmental Conservation (NYSDEC). The purpose of the field inspection was to conduct a final inspection of the site prior to the remediation contractor, Nature's Way Environmental Consultants & Contractors, Inc. (NWECC&C) demobilizing from the site.

During a field inspection conducted on March 13, 1996 with Mr. Crouch, Mr. Glaser, Jaspal Walia, NYSDEC, Clark Martens, Benderson Development Company Inc. and Russ Savage, NWECC&C, in attendance, it was agreed upon by all present that the remediation effort to remove lead-contaminated fill at the site was complete except for two items. The two items were:

The last on-site stockpile of material which consisted of a mixture of snow and soil/fill generated during a final scrapping of the area would be moved and staged on and covered with plastic in an area west of the westernmost outer wall of the Target facility presently under construction.

Two discrete areas west of the former remediation process area which contained paint chips required further scrapping/excavation. The material generated during the scrapping/excavation of these two areas would be combined with the above relocated stockpile and the subsequent treatment/disposal of this material would be addressed later, but within 90 days of the material being staged.

Mr. Clark Martens
Benderson Development Company, Inc.
Page 2

On March 14, 1996, NWE&C relocated the last on-site stockpile of material to the agreed upon staging area and placed the material on plastic. NWE&C then removed the material of concern from the remaining two areas. The excavated material from these two areas was also placed in the aforementioned agreed upon staging area. The material in this area was then covered with plastic and the plastic cover secured.

Upon completion of the above activities by NWE&C, Mr. Crouch and Mr. Glaser concurred that the two remaining items had been appropriately addressed; hence, the site remediation activities agreed upon by Benderson Development Company, Inc. and the NYSDEC were complete and the remediation contractor could exit the site.

Barron & Associates, P.C. appreciate the opportunity to be of assistance during this project. Should you have any questions, please do not hesitate to contact James S. Barron, P.E. or the undersigned at your convenience.

Yours truly,
BARRON & ASSOCIATES, P.C.



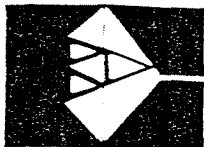
Richard L. Crouch
Senior Hydrogeologist

cc: Jaspal Walia, P.E., NYSDEC
Kevin Glaser, NYSDEC
Craig A. Slater, Esq., Harter, Secrest and Emery
Michael Yeomans, Benderson

APPENDIX I

*B&A'S SEPTEMBER 6, 1995 WASTE CHARACTERIZATION
ANALYTICAL AND QUALITY CONTROL RESULTS*

BUFFALO DRILLING COMPANY



INC.

10440 MAIN STREET
CLARENCE, NEW YORK
14031
(716) 759-7821
FAX (716) 759-7823

September 11, 1995

Job No.: 95-113C

Saperston & Day, P.C.
1100 M & T Center
Buffalo, New York 14203

ATTN: Craig A. Slater, Esq.

RE: Excavation of Soil/Fill Stockpiles,
Target Project, Walden Avenue &
Galleria Drive, Cheektowaga, New York

Dear Mr. Slater:

Buffalo Drilling Company, Inc. (BDC) and James S. Barron, P.E. Consulting Engineers, P.C. (BCE) have undertaken a sampling and laboratory analysis program at the above referenced project site.

On September 6, 1995, a senior geologist and geologist from BDC were present on site for the purpose of collecting samples of the stockpiled soil/fill materials located along the western portion of the project site. The sampling consisted of the following tasks:

- uncovered the plastic sheeting on the soil/fill stockpiles.
- placed sequentially numbered survey flags in each soil/fill stockpile to be sampled; a total of sixty-six soil/fill piles were identified (refer to the attached Figure 1).
- using pre-cleaned, laboratory-supplied, four ounce glass jars, and a new pair of disposable surgical gloves for each pile, three discrete samples were collected from each soil/fill stockpile. each discrete sample was labelled according to the respective soil/fill stockpile number located at the pile.

Mr. Craig A. Slater, Esq.

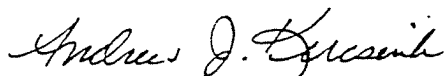
September 11, 1995

Page 2

- the discrete samples from each pile were subsequently composited into one sample, which was placed into pre-cleaned, laboratory-supplied, six ounce plastic jars. The composite sample was labelled with the respective number of the soil/fill stockpile.
- subsequent to collecting the samples, a sketch of the soil/fill stockpiles was prepared (refer to attached Figure 1).
- subsequent to preparation of the sketch, the soil/fill stockpiles were recovered with the plastic sheeting, as well as possible, prior to leaving the site.
- a total of sixty-six composite soil/fill samples were properly labelled and transported to the analytical laboratory, Waste Stream Technology of Buffalo, New York, under chain-of-custody protocols.
- the samples were subsequently analyzed via Toxicity Characteristic Leaching Procedure (TCLP) for lead, only, in accordance with USEPA SW-846 methodologies. The analytical results are pending and will be provided directly to Saperston & Day, P.C.

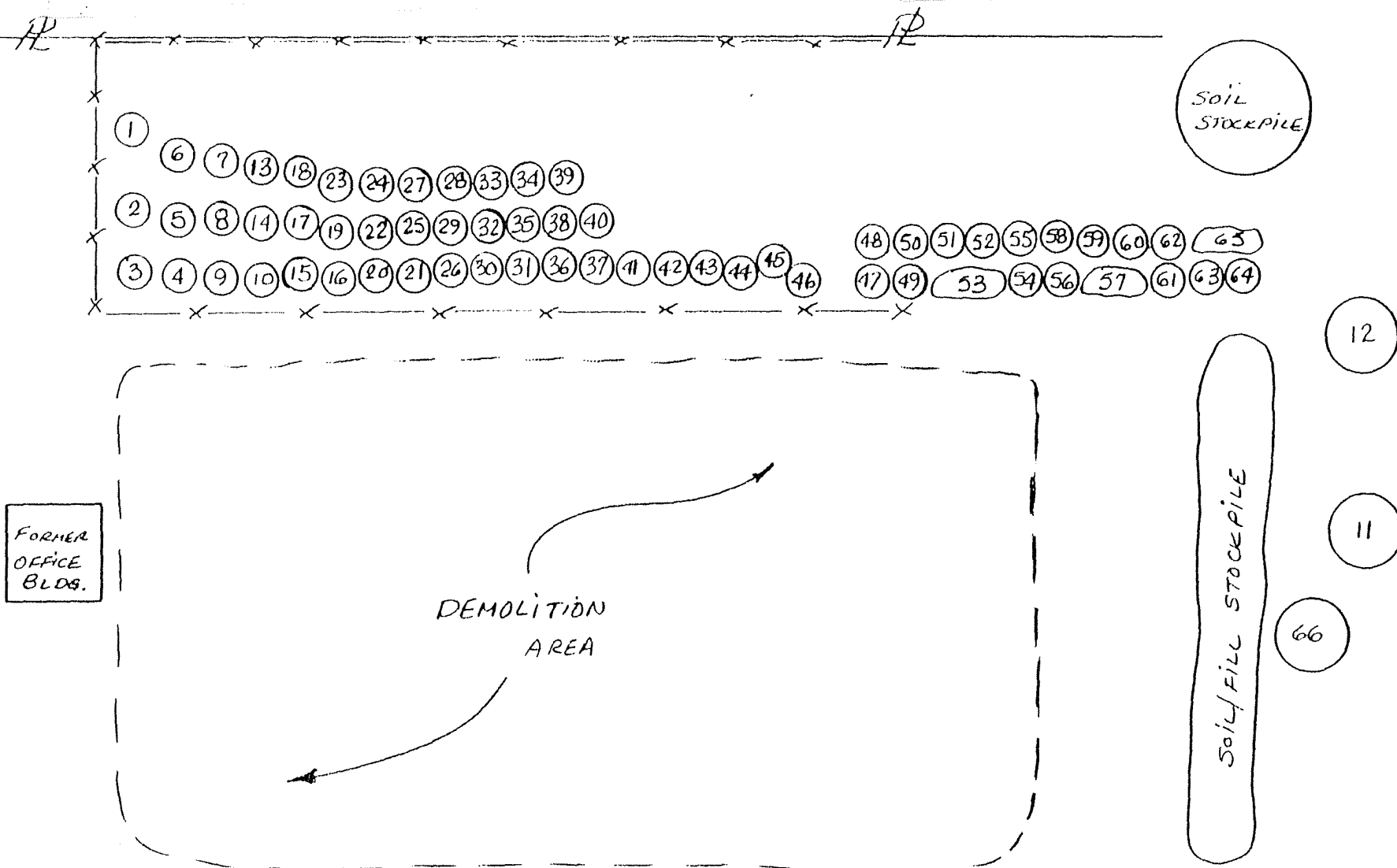
Thank you for the opportunity to assist you with this project. Please call Mr. Richard Crouch or the undersigned at your earliest convenience, if you have any questions.

Yours truly,
BUFFALO DRILLING COMPANY, INC.



Andrew J. Kucserik, CPG
Senior Geologist

WALDEN AVENUE



LEGEND



Property Lines



Soil/Fill Stockpiles (approximate locations/relative sizes)



BUFFALO DRILLING COMPANY, INC. 10440 MAIN STREET CLARENCE, NEW YORK 14031	SOIL PILE SAMPLING Former U.S. Steel Facility Cheektowaga, New York	FIGURE: 1
DATE: September 7, 1995	JOB NO.: 95-113C	SCALE: None

WASTE STREAM TECHNOLOGY
Laboratory Chronicle

Report Date : 9/11/95
Group Number : 9501-415

Prepared For :
Mr. Rick Crouch
Buffalo Drilling
10440 Main Street
Clarence, New York 14031

Site: U.S. Steel

Field and Laboratory Information

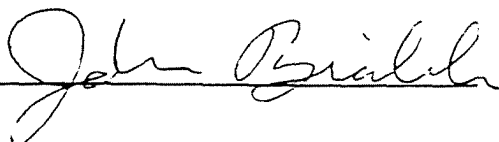
Analytical Services

Analytical Parameters
TCLP LEAD

Number of Samples
66

Turnaround Time
Standard

Report Released By :



ENVIRONMENTAL LABORATORY ACCREDITATION
CERTIFICATION NUMBER (ELAP) 11179

WASTE STREAM TECHNOLOGY

Laboratory Chronicle

Report Date : 9/11/95

Group Number : 9501-415

Soil Pile #1	WS21343	Soil	9/6/95	9/6/95	1700
Soil Pile #2	WS21344	Soil	9/6/95	9/6/95	1700
Soil Pile #3	WS21345	Soil	9/6/95	9/6/95	1700
Soil Pile #4	WS21346	Soil	9/6/95	9/6/95	1700
Soil Pile #5	WS21347	Soil	9/6/95	9/6/95	1700
Soil Pile #6	WS21348	Soil	9/6/95	9/6/95	1700
Soil Pile #7	WS21349	Soil	9/6/95	9/6/95	1700
Soil Pile #8	WS21350	Soil	9/6/95	9/6/95	1700
Soil Pile #9	WS21351	Soil	9/6/95	9/6/95	1700
Soil Pile #10	WS21352	Soil	9/6/95	9/6/95	1700
Soil Pile #11	WS21353	Soil	9/6/95	9/6/95	1700
Soil Pile #12	WS21354	Soil	9/6/95	9/6/95	1700
Soil Pile #13	WS21355	Soil	9/6/95	9/6/95	1700
Soil Pile #14	WS21356	Soil	9/6/95	9/6/95	1700
Soil Pile #15	WS21357	Soil	9/6/95	9/6/95	1700
Soil Pile #16	WS21358	Soil	9/6/95	9/6/95	1700
Soil Pile #17	WS21359	Soil	9/6/95	9/6/95	1700
Soil Pile #18	WS21360	Soil	9/6/95	9/6/95	1700
Soil Pile #19	WS21361	Soil	9/6/95	9/6/95	1700
Soil Pile #20	WS21362	Soil	9/6/95	9/6/95	1700
Soil Pile #21	WS21363	Soil	9/6/95	9/6/95	1700
Soil Pile #22	WS21364	Soil	9/6/95	9/6/95	1700
Soil Pile #23	WS21365	Soil	9/6/95	9/6/95	1700
Soil Pile #24	WS21366	Soil	9/6/95	9/6/95	1700
Soil Pile #25	WS21367	Soil	9/6/95	9/6/95	1700
Soil Pile #26	WS21368	Soil	9/6/95	9/6/95	1700
Soil Pile #27	WS21369	Soil	9/6/95	9/6/95	1700
Soil Pile #28	WS21370	Soil	9/6/95	9/6/95	1700
Soil Pile #29	WS21371	Soil	9/6/95	9/6/95	1700
Soil Pile #30	WS21372	Soil	9/6/95	9/6/95	1700
Soil Pile #31	WS21373	Soil	9/6/95	9/6/95	1700
Soil Pile #32	WS21374	Soil	9/6/95	9/6/95	1700
Soil Pile #33	WS21375	Soil	9/6/95	9/6/95	1700
Soil Pile #34	WS21376	Soil	9/6/95	9/6/95	1700
Soil Pile #35	WS21377	Soil	9/6/95	9/6/95	1700

Sample Status Upon Receipt : No irregularities.

WASTE STREAM TECHNOLOGY

Laboratory Chronicle

Report Date : 9/11/95

Group Number : 9501-415

Soil Pile #36	WS21378	Soil	9/6/95	9/6/95	1700
Soil Pile #37	WS21379	Soil	9/6/95	9/6/95	1700
Soil Pile #38	WS21380	Soil	9/6/95	9/6/95	1700
Soil Pile #39	WS21381	Soil	9/6/95	9/6/95	1700
Soil Pile #40	WS21382	Soil	9/6/95	9/6/95	1700
Soil Pile #41	WS21383	Soil	9/6/95	9/6/95	1700
Soil Pile #42	WS21384	Soil	9/6/95	9/6/95	1700
Soil Pile #43	WS21385	Soil	9/6/95	9/6/95	1700
Soil Pile #44	WS21386	Soil	9/6/95	9/6/95	1700
Soil Pile #45	WS21387	Soil	9/6/95	9/6/95	1700
Soil Pile #46	WS21388	Soil	9/6/95	9/6/95	1700
Soil Pile #47	WS21389	Soil	9/6/95	9/6/95	1700
Soil Pile #48	WS21390	Soil	9/6/95	9/6/95	1700
Soil Pile #49	WS21391	Soil	9/6/95	9/6/95	1700
Soil Pile #50	WS21392	Soil	9/6/95	9/6/95	1700
Soil Pile #51	WS21393	Soil	9/6/95	9/6/95	1700
Soil Pile #52	WS21394	Soil	9/6/95	9/6/95	1700
Soil Pile #53	WS21395	Soil	9/6/95	9/6/95	1700
Soil Pile #54	WS21396	Soil	9/6/95	9/6/95	1700
Soil Pile #55	WS21397	Soil	9/6/95	9/6/95	1700
Soil Pile #56	WS21398	Soil	9/6/95	9/6/95	1700
Soil Pile #57	WS21399	Soil	9/6/95	9/6/95	1700
Soil Pile #58	WS21400	Soil	9/6/95	9/6/95	1700
Soil Pile #59	WS21401	Soil	9/6/95	9/6/95	1700
Soil Pile #60	WS21402	Soil	9/6/95	9/6/95	1700
Soil Pile #61	WS21403	Soil	9/6/95	9/6/95	1700
Soil Pile #62	WS21404	Soil	9/6/95	9/6/95	1700
Soil Pile #63	WS21405	Soil	9/6/95	9/6/95	1700
Soil Pile #64	WS21406	Soil	9/6/95	9/6/95	1700
Soil Pile #65	WS21407	Soil	9/6/95	9/6/95	1700
Soil Pile #66	WS21408	Soil	9/6/95	9/6/95	1700

METHODOLOGIES

The specific methodologies employed in obtaining the analytical data reported are indicated on each of the result forms. The method numbers shown refer to the following U.S. Environmental Protection Agency Reference:

U.S. Environmental Protection Agency, "Method for Chemical Analysis of Water and Wastes," EPA 600/4-79-020, March 1983 Revision.

U.S. Environmental Protection Agency, "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods," Office of Solid Waste and Emergency Response, November 1986, SW-846, Third edition.

U.S. Environmental Protection Agency, Federal Register, 40 CFR Part 136, October 1984.

U.S. Environmental Protection Agency, Federal Register, 40 CFR Part 268, Appendix I, November 1986.

Waste Stream Technology Inc.

TCLP 3015/6010 ICP Result Report

Site : U.S. Steel
Date Sampled : 9/6/95
Date Received : 9/6/95 @ 1700
TCLP Extraction Date : 9/6/95

Group Number : 9501-415
Report Units : mg/L (PPM)
Matrix : TCLP Extract

WST Lab ID	Client ID	Date Digested	Date Analyzed	Lead
WS21343	Soil Pile #1	9/7/95	9/7/95	42
WS21344	Soil Pile #2	9/7/95	9/7/95	0.63
WS21345	Soil Pile #3	9/7/95	9/7/95	4.1
WS21346	Soil Pile #4	9/7/95	9/7/95	4.0
WS21347	Soil Pile #5	9/7/95	9/7/95	3.3
WS21348	Soil Pile #6	9/7/95	9/7/95	13
WS21349	Soil Pile #7	9/7/95	9/7/95	73
WS21350	Soil Pile #8	9/7/95	9/7/95	26
WS21351	Soil Pile #9	9/7/95	9/7/95	11
WS21352	Soil Pile #10	9/7/95	9/7/95	7.1
WS21353	Soil Pile #11	9/7/95	9/7/95	0.25
WS21354	Soil Pile #12	9/7/95	9/7/95	74
WS21355	Soil Pile #13	9/7/95	9/7/95	6.4
WS21356	Soil Pile #14	9/7/95	9/7/95	7.2
WS21357	Soil Pile #15	9/7/95	9/7/95	2.3
WS21358	Soil Pile #16	9/7/95	9/7/95	6.2
WS21359	Soil Pile #17	9/7/95	9/7/95	8.8
WS21360	Soil Pile #18	9/7/95	9/7/95	10
WS21361	Soil Pile #19	9/7/95	9/7/95	4.2
WS21362	Soil Pile #20	9/7/95	9/7/95	7.4
WS21363	Soil Pile #21	9/7/95	9/7/95	9.5
WS21364	Soil Pile #22	9/7/95	9/7/95	14
WS21365	Soil Pile #23	9/7/95	9/7/95	43
WS21366	Soil Pile #24	9/7/95	9/7/95	17
WS21367	Soil Pile #25	9/7/95	9/7/95	29
WS21368	Soil Pile #26	9/7/95	9/7/95	15
WS21369	Soil Pile #27	9/7/95	9/7/95	8.5
WS21370	Soil Pile #28	9/7/95	9/7/95	15
WS21371	Soil Pile #29	9/7/95	9/7/95	5.9
WS21372	Soil Pile #30	9/7/95	9/7/95	9.8
WS21373	Soil Pile #31	9/7/95	9/7/95	5.9
WS21374	Soil Pile #32	9/7/95	9/7/95	7.1
WS21375	Soil Pile #33	9/7/95	9/7/95	17
WS21376	Soil Pile #34	9/7/95	9/7/95	1.3
WS21377	Soil Pile #35	9/7/95	9/7/95	15

Pb Detection Limit: 0.120 mg/L

Waste Stream Technology Inc.

TCLP 3015/6010 ICP Result Report

Site : U.S. Steel

Date Sampled : 9/6/95

Date Received : 9/6/95 @ 1700

TCLP Extraction Date : 9/6/95

Group Number : 9501-415

Report Units : mg/L (PPM)

Matrix : TCLP Extract

WST Lab ID	Client ID	Date Digested	Date Analyzed	Lead
WS21378	Soil Pile #36	9/7/95	9/7/95	13
WS21379	Soil Pile #37	9/7/95	9/7/95	19
WS21380	Soil Pile #38	9/7/95	9/7/95	65
WS21381	Soil Pile #39	9/7/95	9/7/95	3.6
WS21382	Soil Pile #40	9/7/95	9/7/95	7.1
WS21383	Soil Pile #41	9/7/95	9/7/95	37
WS21384	Soil Pile #42	9/7/95	9/7/95	14
WS21385	Soil Pile #43	9/7/95	9/7/95	36
WS21386	Soil Pile #44	9/7/95	9/7/95	9.4
WS21387	Soil Pile #45	9/7/95	9/7/95	25
WS21388	Soil Pile #46	9/7/95	9/7/95	3.1
WS21389	Soil Pile #47	9/7/95	9/7/95	148
WS21390	Soil Pile #48	9/7/95	9/7/95	1.9
WS21391	Soil Pile #49	9/7/95	9/7/95	44
WS21392	Soil Pile #50	9/7/95	9/7/95	4.3
WS21393	Soil Pile #51	9/7/95	9/7/95	14
WS21394	Soil Pile #52	9/7/95	9/7/95	4.6
WS21395	Soil Pile #53	9/7/95	9/7/95	1.4
WS21396	Soil Pile #54	9/7/95	9/7/95	25
WS21397	Soil Pile #55	9/7/95	9/7/95	2.2
WS21398	Soil Pile #56	9/7/95	9/7/95	41
WS21399	Soil Pile #57	9/7/95	9/7/95	28
WS21400	Soil Pile #58	9/7/95	9/7/95	3.3
WS21401	Soil Pile #59	9/7/95	9/7/95	2.9
WS21402	Soil Pile #60	9/7/95	9/7/95	7.2
WS21403	Soil Pile #61	9/7/95	9/7/95	8.2
WS21404	Soil Pile #62	9/7/95	9/7/95	2.4
WS21405	Soil Pile #63	9/7/95	9/7/95	5.7
WS21406	Soil Pile #64	9/7/95	9/7/95	5.4
WS21407	Soil Pile #65	9/7/95	9/7/95	158
WS21408	Soil Pile #66	9/7/95	9/7/95	18
MBRR2460	NA	9/7/95	9/7/95	<0.120
MBRR2461	NA	9/7/95	9/7/95	<0.120
MBRR2463	NA	9/7/95	9/7/95	<0.120
MBRR2464	NA	9/7/95	9/7/95	<0.120

Pb Detection Limit: 0.120 mg/L

MB- denotes Method Blank.

NA- denotes not applicable.

CHAIN OF CUSTODY RECORD

9501-415

PROJECT NO:		SITE NAME:		SIZE & NO. OF CONTAINERS		TCLP LEAD										TCLP Lead PRESERVATIVES Residual (mg/L)										REMARKS
95-113C		U.S. Steel																								
SAMPLERS (SIGNATURE):		BDCI																								
SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION																				
95-113C-01	9/12		X		S	Soil Pile #1		1	✓																42	WS 21343
02			X		S	" #2		1	✓																0.63	74
03			X		S	" #3		1	✓																4.1	45
04			X		S	" #4		1	✓																4.0	46
05			X		S	" #5		1	✓																3.3	47
06			X		S	" #6		1	✓																13	48
07			X		S	" #7		1	✓																7.3	49
08			X		S	" #8		1	✓																26	50
09			X		S	" #9		1	✓																11	51
10			X		S	" #10		1	✓																7.1	52
11			X		S	" #11		1	✓																0.25	53
12			X		S	" #12		1	✓																74	54
13			X		S	" #13		1	✓																6.4	55

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
<i>[Signature]</i>	9/6/95 500pm	<i>[Signature]</i>			
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

LAB USE: REFRIGERATOR # _____ SHELF # _____

STREAM

TECHNOLOGY

302 GROTE STREET
BUFFALO, NY 14207
(716) 876-5290

P. 2 of 6

CHAIN OF CUSTODY RECORD

PROJECT NO: 95-113c SITE NAME: U. S. Steel

SAMPLERS (SIGNATURE): Andy Hucsek BDCI

SIZE & NO. OF CONTAINERS

TULIP LEAD PRESERVATIVES Results (mg/L)

REMARKS

SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION	SIZE & NO. OF CONTAINERS	TULIP LEAD PRESERVATIVES Results (mg/L)	REMARKS
95-113c-147/6			X		S	Soil Pile #14	1	7.2	WS21356
-15			X		S	#15	1	2.3	57
-16			X		S	#16	1	6.2	58
-17			X		S	#17	1	8.8	59
-18			X		S	#18	1	10	60
-19			X		S	#19	1	4.2	61
-20			X		S	#20	1	7.4	62
-21			X		S	#21	1	9.5	63
-22			X		S	#22	1	14	64
-23			X		S	#23	1	4.3	65
-24			X		S	#24	1	17	66
-25			X		S	#25	1	29	67
-26			X		S	#26	1	15	68

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
Andy Hucsek	9/14/50				

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS

Coordinator field files

CHAIN OF CUSTODY RECORD

9501-415

PROJECT NO: 95-113C		SITE NAME: U. S. Steel					SIZE & NO. OF CONTAINERS	TECP LEAD PRESERVATIVES Results (mg/L)										REMARKS
SAMPLERS (SIGNATURE): <i>Andy & Eric</i>																		
SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION												
95-113C-27	9/6		X		S	Soil Pile #27	1	✓									8.5	US 21369
-28			X		S	#28	1	✓									15	70
-29			X		S	#29	1	✓									5.9	71
-30			X		S	#30	1	✓									9.8	72
-31			X		S	#31	1	✓									5.9	73
-32			X		S	#32	1	✓									7.1	74
-33			X		S	#33	1	✓									17	75
-34			X		S	#34	1	✓									1.3	76
-35			X		S	#35	1	✓									15	77
-36			X		S	#36	1	✓									13	78
-37			X		S	#37	1	✓									19	79
-38			X		S	#38	1	✓									65	80
-39			X		S	#39	1	✓									3.6	✓ 81

RELINQUISHED BY (SIGNATURE) <i>Andy & Eric</i>	DATE/TIME 9/6/95 5:00 PM	RECEIVED BY (SIGNATURE) <i>[Signature]</i>	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

9501-415

CHAIN OF CUSTODY RECORD

PROJECT NO:		SITE NAME:		SIZE & NO. OF CONTAINERS	TCLP LEAD										TCLP LEAD PRESERVATIVES Result: (mg/L)	REMARKS	
95-113C		U. S. Steel															
SAMPLERS (SIGNATURE):				BDCI													
SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION											
95-113C-40	9/6		X		S	Soil Pile #40	1	✓								7.1	WIS 21382
-41			X			#41	1	✓								37	83
-42			X			#42	1	✓								14	84
-43			X			#43	1	✓								36	85
-44			X			#44	1	✓								9.4	86
-45			X			#45	1	✓								25	87
-46			X			#46	1	✓								3.1	88
-47			X			#47	1	✓								148	89
-48			X			#48	1	✓								1.9	90
-49			X			#49	1	✓								44	91
-50			X			#50	1	✓								4.3	92
-51			X			#51	1	✓								14	93
-52			X			#52	1	✓								4.6	94

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
<i>Amf...</i>	9/6/95 500	<i>[Signature]</i>			
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

STREAM

TECHNOLOGY

302 GROTE STREET
BUFFALO, NY 14207
(716) 876-5290

P.5 of 6

CHAIN OF CUSTODY RECORD

9501-415

PROJECT NO:		SITE NAME:		SIZE & NO. OF CONTAINERS		TCLP LEAD										TCLP LEAD PRESERVATIVES Results (mg/L)		REMARKS			
95-113C		U. S. Steel																			
SAMPLERS (SIGNATURE):																					
[Signature]				BDCI																	
SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION															
95-113C-53	9/6		X		S	Soil Pile #53		1	✓							1.4	WS21395				
-54			X			#54		1	✓							25	96				
-55			X			#55		1	✓							2.2	97				
-56			X			#56		1	✓							41	98				
-57			X			#57		1	✓							28	99				
-58			X			#58		1	✓							3.3	WS21400				
-59			X			#59		1	✓							2.9	01				
-60			X			#60		1	✓							7.2	02				
-61			X			#61		1	✓							8.2	03				
-62			X			#62		1	✓							2.4	04				
-63			X			#63		1	✓							5.7	05				
-64			X			#64		1	✓							5.4	06				
-65			X			#65		1	✓							158	07				

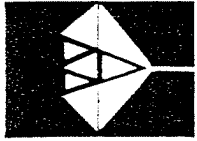
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
[Signature]	9/6/95 500A	[Signature]			
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

APPENDIX J

*B&A'S SEPTEMBER 15, 1995 WASTE CHARACTERIZATION
ANALYTICAL AND QUALITY CONTROL RESULTS*

**BUFFALO DRILLING COMPANY
INC.**



10440 MAIN STREET
CLARENCE, NEW YORK
14031
(716) 759-7821
FAX (716) 759-7823

September 25, 1995

Job No.: 95-113E

Saperston & Day, P.C.
1100 M & T Center
Buffalo, New York 14203

ATTN: Craig A. Slater, Esq.

RE: *Submittal: Soil/Waste Pile Sampling for TCLP Analysis (Lead Only),
Target Project, Walden Avenue & Galleria Drive, Cheektowaga, New
York*

Ladies and Gentlemen:

Buffalo Drilling Company, Inc. (BDC) and James S. Barron, P.E. Consulting Engineers, P.C. (BCE) have undertaken a sampling and laboratory analysis program at the above referenced project site. During a previous sampling event, 48 soil/waste piles were identified as exceeding the regulatory limit for lead via Toxicity Characteristic Leaching Procedure (TCLP). The purpose of this sampling and analytical program was to subdivide the 48 soil/waste piles and resample.

On September 15, 1995, field personnel from *BDC* were present on site for the purpose of collecting composite samples of the stockpiled soil/fill materials of concern located along the western portion of the project site (Figure 1, Attachment 1). As noted above, 48 soil/waste piles were previously identified as exceeding the leachable limit for lead via TCLP. One of the identified soil/waste piles, No. 66, was separated into 22 piles for the purpose of this sampling event; thus, creating a total of 69 piles that were to be sampled. The actual number of waste piles sampled was 68. Waste pile #12 was not located during this sampling event.

Each of the identified soil/waste piles, was subdivided along a north-south axis. A composite sample consisting of three discrete samples was prepared for each side and identified as the previously designated pile number, excluding waste pile #66, and east or west depending on the section of the pile the composite represented (refer to Sampling Scheme, Attachment 1). The 22 waste piles which previously constituted waste pile #66 were identified as A-1 through A-22 (Figure 1, Attachment 1).

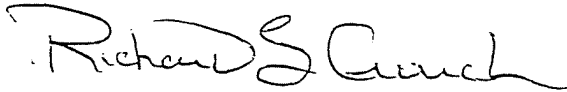
The above sampling and compositing scheme generated a total of 136 composite samples which were properly labelled and transported to the analytical laboratory, Waste Stream Technology, Inc., Buffalo, New York, under chain-of-custody protocols.

Craig A. Slater, Esq.
Saperston & Day, P.C.
Page 2

The samples were analyzed via Toxicity Characteristic Leaching Procedure (TCLP) for lead only in accordance with USEPA SW-846 methodologies. The analytical results have been submitted directly to Saperston & Day, P.C. and Benderson Development Company, Inc. under separate covers

Thank you for the opportunity to assist you with this project. Please call Mr. James S. Barron, P.E., President, or the undersigned at your earliest convenience, if you have any questions.

Yours truly,
BUFFALO DRILLING COMPANY, INC.

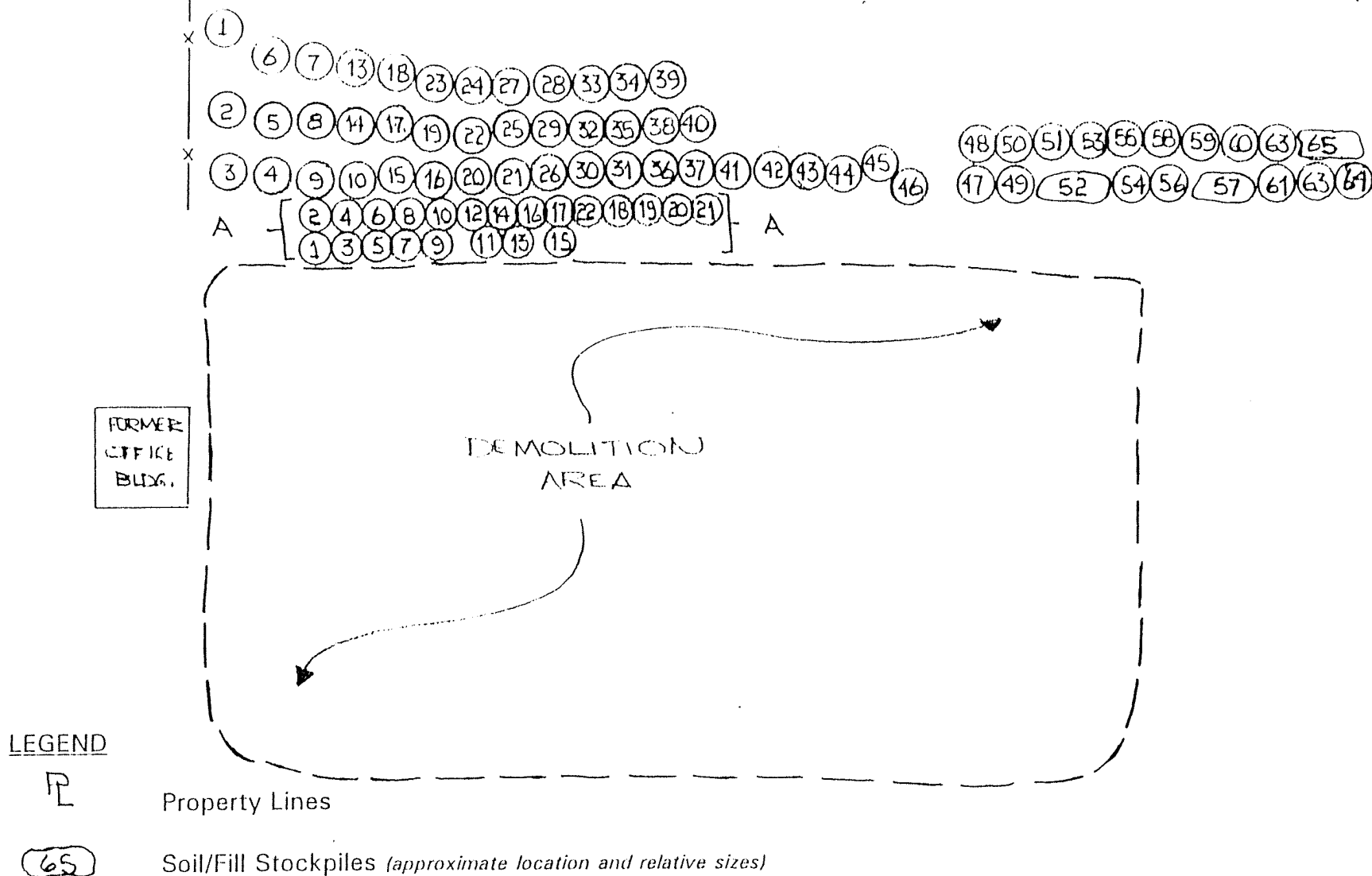
A handwritten signature in dark ink, appearing to read "Richard L. Crouch". The signature is fluid and cursive, with the first name "Richard" and last name "Crouch" clearly distinguishable.

Richard L. Crouch
Senior Hydrogeologist

attachments

cc: Ms. Judith Ames, Benderson Development Company, Inc.
Mr. Michael Yeomans, Benderson Development Company, Inc.

ATTACHMENT 1
FIGURE AND SAMPLING SCHEME



BUFFALO DRILLING COMPANY, INC. 10440 MAIN STREET CLARENCE, NEW YORK 14031	SOIL PILE SAMPLING Former U.S. Steel Facility Cheektowaga, New York	FIGURE: 1
DATE: September 18, 1995	JOB NO.: 95-113D	SCALE: None

SAMPLING SCHEME

***FORMER U.S. STEEL FACILITY
CHEEKTOWAGA, NEW YORK***

September 15, 1995

<u>Soil Pile No.</u>	<u>Sample No.</u>¹
1	1 E 1 W
6	6 E 6 W
7	7 E 7 W
8	8 E 8 W
9	9 E 9 W
10	10 E 10 W
13	13 E 13 W
14	14 E 14 W
16	16 E 16 W
17	17 E 17 W
18	18 E 18 W
20	20 E 20 W
21	21 E 21 W
22	22 E 22 W
23	23 E 23 W
24	24 E 24 W

SAMPLING SCHEME

***FORMER U.S. STEEL FACILITY
CHEEKTOWAGA, NEW YORK***

September 15, 1995

Soil Pile No.

Sample No.

25	25 E
	25 W
26	26 E
	26 W
27	27 E
	27 W
28	28 E
	28 W
29	29 E
	29 W
30	30 E
	30 W
31	31 E
	31 W
32	32 E
	32 W
33	33 E
	33 W
35	35 E
	35 W
36	36 E
	36 W
37	37 E
	37 W
38	38 E
	38 W
40	40 E
	40 W
41	41 E
	41 W
42	42 E
	42 W

SAMPLING SCHEME

***FORMER U.S. STEEL FACILITY
CHEEKTOWAGA, NEW YORK***

September 15, 1995

Soil Pile No.

Sample No.

43	43 E
	43 W
44	44 E
	44 W
45	45 E
	45 W
47	47 E
	47 W
49	49 E
	49 W
51	51 E
	51 W
54	54 E
	54 W
56	56 E
	56 W
57	57 E
	57 W
60	60 E
	60 W
61	61 E
	61 W
63	63 E
	63 W
64	64 E
	64 W
65	65 E
	65 W

SAMPLING SCHEME

*FORMER U.S. STEEL FACILITY
CHEEKTOWAGA, NEW YORK*

September 15, 1995

Soil Pile No.²

Sample No.

A 1

A 1 E
A 1 W

A 2

A 2 E
A 2 W

A 3

A 3 E
A 3 W

A 4

A 4 E
A 4 W

A 5

A 5 E
A 5 W

A 6

A 6 E
A 6 W

A 7

A 7 E
A 7 W

A 8

A 8 E
A 8 W

A 9

A 9 E
A 9 W

A10

A10 E
A10 W

A11

A11 E
A11 W

A12

A12 E
A12 W

A13

A13 E
A13 W

A14

A14 E
A14 W

A15

A15 E
A15 W

A16

A16 E
A16 W

SAMPLING SCHEME

***FORMER U.S. STEEL FACILITY
CHEEKTOWAGA, NEW YORK***

September 15, 1995

<u>Soil Pile No.</u>	<u>Sample No.</u>
A17	A17 E A17 W
A18	A18 E A18 W
A19	A19 E A19 W
A20	A20 E A20 W
A21	A21 E A21 W
A22	A22 E A22 W

NOTES:

1. For this sampling event, each of the above soil piles were divided in half along an imaginary north-south line; hence, a composite sample was prepared for the eastern (E) half and another for the western (W) half.
2. Soil pile #66 from the previous sampling event, September 6, 1995, was reportioned into 22 piles which were subsequently located to the east of the original soil piles #'s 1 through 44. For the purpose of this sampling event, the resultant soil piles from the original soil pile #66 have been designated as A 1 through A22 (Refer to Figure 1).

WASTE STREAM TECHNOLOGY
Laboratory Chronicle

Report Date : 9/20/95
Group Number : 9501-428

Prepared For :
Mr. Rick Crouch
Buffalo Drilling
10440 Main Street
Clarence, New York 14031

Site: U.S. Steel

Analytical Services

Analytical Parameters

Number of Samples

Turnaround Time

TCLP Lead

71

3 Business Days

Report Released By : Daniel W. Voel

ENVIRONMENTAL LABORATORY ACCREDITATION
CERTIFICATION NUMBER (ELAP) 11179

WASTE STREAM TECHNOLOGY

Laboratory Chronicle

Group Number : 9501-428

Field and Laboratory Information

Client Id	WST Lab #	Matrix	Date Sampled	Date Received	Time
Soil Pile #01 East	WS21979	Soil	9/15/95	9/15/95	1545
Soil Pile #01 West	WS21980	Soil	9/15/95	9/15/95	1545
Soil Pile #06 East	WS21981	Soil	9/15/95	9/15/95	1545
Soil Pile #06 West	WS21982	Soil	9/15/95	9/15/95	1545
Soil Pile #07 East	WS21983	Soil	9/15/95	9/15/95	1545
Soil Pile #07 West	WS21984	Soil	9/15/95	9/15/95	1545
Soil Pile #08 East	WS21985	Soil	9/15/95	9/15/95	1545
Soil Pile #08 West	WS21986	Soil	9/15/95	9/15/95	1545
Soil Pile #09 East	WS21987	Soil	9/15/95	9/15/95	1545
Soil Pile #09 West	WS21988	Soil	9/15/95	9/15/95	1545
Soil Pile #10 East	WS21989	Soil	9/15/95	9/15/95	1545
Soil Pile #10 West	WS21990	Soil	9/15/95	9/15/95	1545
Soil Pile #13 East	WS21991	Soil	9/15/95	9/15/95	1545
Soil Pile #13 West	WS21992	Soil	9/15/95	9/15/95	1545
Soil Pile #14 East	WS21993	Soil	9/15/95	9/15/95	1545
Soil Pile #14 West	WS21994	Soil	9/15/95	9/15/95	1545
Soil Pile #16 East	WS21995	Soil	9/15/95	9/15/95	1545
Soil Pile #16 West	WS21996	Soil	9/15/95	9/15/95	1545
Soil Pile #17 East	WS21997	Soil	9/15/95	9/15/95	1545
Soil Pile #17 West	WS21998	Soil	9/15/95	9/15/95	1545
Soil Pile #18 East	WS21999	Soil	9/15/95	9/15/95	1545
Soil Pile #18 West	WS22000	Soil	9/15/95	9/15/95	1545
Soil Pile #20 East	WS22001	Soil	9/15/95	9/15/95	1545
Soil Pile #20 West	WS22002	Soil	9/15/95	9/15/95	1545
Soil Pile #21 East	WS22003	Soil	9/15/95	9/15/95	1545
Soil Pile #21 West	WS22004	Soil	9/15/95	9/15/95	1545
Soil Pile #22 East	WS22005	Soil	9/15/95	9/15/95	1545
Soil Pile #22 West	WS22006	Soil	9/15/95	9/15/95	1545
Soil Pile #23 East	WS22007	Soil	9/15/95	9/15/95	1545
Soil Pile #23 West	WS22008	Soil	9/15/95	9/15/95	1545
Soil Pile #24 East	WS22009	Soil	9/15/95	9/15/95	1545
Soil Pile #24 West	WS22010	Soil	9/15/95	9/15/95	1545
Soil Pile #25 East	WS22011	Soil	9/15/95	9/15/95	1545
Soil Pile #25 West	WS22012	Soil	9/15/95	9/15/95	1545
Soil Pile #26 East	WS22013	Soil	9/15/95	9/15/95	1545
Soil Pile #26 West	WS22014	Soil	9/15/95	9/15/95	1545
Soil Pile #27 East	WS22015	Soil	9/15/95	9/15/95	1545
Soil Pile #27 West	WS22016	Soil	9/15/95	9/15/95	1545
Soil Pile #28 East	WS22017	Soil	9/15/95	9/15/95	1545
Soil Pile #28 West	WS22018	Soil	9/15/95	9/15/95	1545
Soil Pile #29 East	WS22019	Soil	9/15/95	9/15/95	1545
Soil Pile #29 West	WS22020	Soil	9/15/95	9/15/95	1545
Soil Pile #30 East	WS22021	Soil	9/15/95	9/15/95	1545
Soil Pile #30 West	WS22022	Soil	9/15/95	9/15/95	1545

Sample Status Upon Receipt : No irregularities.

WASTE STREAM TECHNOLOGY

Laboratory Chronicle

Group Number : 9501-428

Field and Laboratory Information

Client Id	WST Lab #	Matrix	Date Sampled	Date Received	Time
Soil Pile #31 East	WS22023	Soil	9/15/95	9/15/95	1545
Soil Pile #31 West	WS22024	Soil	9/15/95	9/15/95	1545
Soil Pile #32 East	WS22025	Soil	9/15/95	9/15/95	1545
Soil Pile #32 West	WS22026	Soil	9/15/95	9/15/95	1545
Soil Pile #33 East	WS22027	Soil	9/15/95	9/15/95	1545
Soil Pile #33 West	WS22028	Soil	9/15/95	9/15/95	1545
Soil Pile #35 East	WS22029	Soil	9/15/95	9/15/95	1545
Soil Pile #35 West	WS22030	Soil	9/15/95	9/15/95	1545
Soil Pile #36 East	WS22031	Soil	9/15/95	9/15/95	1545
Soil Pile #36 West	WS22032	Soil	9/15/95	9/15/95	1545
Soil Pile #37 East	WS22033	Soil	9/15/95	9/15/95	1545
Soil Pile #37 West	WS22034	Soil	9/15/95	9/15/95	1545
Soil Pile #38 East	WS22035	Soil	9/15/95	9/15/95	1545
Soil Pile #38 West	WS22036	Soil	9/15/95	9/15/95	1545
Soil Pile #40 East	WS22037	Soil	9/15/95	9/15/95	1545
Soil Pile #40 West	WS22038	Soil	9/15/95	9/15/95	1545
Soil Pile #41 East	WS22039	Soil	9/15/95	9/15/95	1545
Soil Pile #41 West	WS22040	Soil	9/15/95	9/15/95	1545
Soil Pile #42 East	WS22041	Soil	9/15/95	9/15/95	1545
Soil Pile #42 West	WS22042	Soil	9/15/95	9/15/95	1545
Soil Pile #43 East	WS22043	Soil	9/15/95	9/15/95	1545
Soil Pile #43 West	WS22044	Soil	9/15/95	9/15/95	1545
Soil Pile #44 East	WS22045	Soil	9/15/95	9/15/95	1545
Soil Pile #44 West	WS22046	Soil	9/15/95	9/15/95	1545
Soil Pile #45 East	WS22047	Soil	9/15/95	9/15/95	1545
Soil Pile #45 West	WS22048	Soil	9/15/95	9/15/95	1545
Soil Pile #47 East	WS22049	Soil	9/15/95	9/15/95	1545
Soil Pile #47 West	WS22050	Soil	9/15/95	9/15/95	1545

Sample Status Upon Receipt : No irregularities.

Waste Stream Technology Inc.

TCLP 3015/6010 ICP Result Report

Site : U.S. Steel

Date Sampled : 9/15/95

Date Received : 9/15/95 @ 1545

TCLP Extraction Date : 9/15/95

Group Number : 9501-428

Report Units : mg/L (PPM)

Matrix : TCLP Extraction Fluid

WST Lab ID	Client ID	Date Digested	Date Analyzed	Lead
MBRR2504	NA	9/18/95	9/18/95	< 0.120
WS21979	Soil Pile #01 East	9/18/95	9/20/95	26.3
WS21980	Soil Pile #01 West	9/18/95	9/20/95	19.7
WS21981	Soil Pile #06 East	9/18/95	9/20/95	51.4
WS21982	Soil Pile #06 West	9/18/95	9/20/95	31.1
WS21983	Soil Pile #07 East	9/18/95	9/18/95	33.5
WS21984	Soil Pile #07 West	9/18/95	9/18/95	66.4
WS21985	Soil Pile #08 East	9/18/95	9/18/95	25.3
WS21986	Soil Pile #08 West	9/18/95	9/18/95	11.8
WS21987	Soil Pile #09 East	9/18/95	9/18/95	15.3
WS21988	Soil Pile #09 West	9/18/95	9/18/95	15.0
WS21989	Soil Pile #10 East	9/18/95	9/18/95	9.31
WS21990	Soil Pile #10 West	9/18/95	9/18/95	6.92
WS21991	Soil Pile #13 East	9/18/95	9/18/95	4.87
WS21992	Soil Pile #13 West	9/18/95	9/18/95	3.87
WS21993	Soil Pile #14 East	9/18/95	9/20/95	5.60
WS21994	Soil Pile #14 West	9/18/95	9/18/95	7.47
WS21995	Soil Pile #16 East	9/18/95	9/18/95	3.00
WS21996	Soil Pile #16 West	9/18/95	9/18/95	8.70
WS21997	Soil Pile #17 East	9/18/95	9/18/95	11.5
WS21998	Soil Pile #17 West	9/18/95	9/18/95	8.59
WS21999	Soil Pile #18 East	9/18/95	9/18/95	3.28
WS22000	Soil Pile #18 West	9/18/95	9/18/95	6.71
WS22001	Soil Pile #20 East	9/18/95	9/18/95	8.03
WS22002	Soil Pile #20 West	9/18/95	9/18/95	2.20
WS22003	Soil Pile #21 East	9/18/95	9/18/95	9.29
WS22004	Soil Pile #21 West	9/18/95	9/18/95	5.24
WS22005	Soil Pile #22 East	9/18/95	9/18/95	10.1
WS22006	Soil Pile #22 West	9/18/95	9/18/95	12.8
WS22007	Soil Pile #23 East	9/18/95	9/18/95	45.0
WS22008	Soil Pile #23 West	9/18/95	9/18/95	24.0
WS22009	Soil Pile #24 East	9/18/95	9/18/95	3.08
WS22010	Soil Pile #24 West	9/18/95	9/18/95	4.33
WS22011	Soil Pile #25 East	9/18/95	9/18/95	31.2
WS22012	Soil Pile #25 West	9/18/95	9/18/95	10.5

MB denotes Method Blank.

NA denotes Not Applicable.

Pb Detection Limit: 0.120 mg/L

Waste Stream Technology Inc.

TCLP 3015/6010 ICP Result Report

Site : U.S. Steel

Date Sampled : 9/15/95

Date Received : 9/15/95 @ 1545

TCLP Extraction Date : 9/15/95

Group Number : 9501-428

Report Units : mg/L (PPM)

Matrix : TCLP Extraction Fluid

WST Lab ID	Client ID	Date Digested	Date Analyzed	Lead
WS22013	Soil Pile #26 East	9/18/95	9/18/95	4.50
WS22014	Soil Pile #26 West	9/18/95	9/18/95	8.70
WS22015	Soil Pile #27 East	9/18/95	9/18/95	6.40
WS22016	Soil Pile #27 West	9/18/95	9/18/95	7.28
WS22017	Soil Pile #28 East	9/18/95	9/18/95	11.4
WS22018	Soil Pile #28 West	9/18/95	9/18/95	21.7
WS22019	Soil Pile #29 East	9/18/95	9/18/95	3.46
WS22020	Soil Pile #29 West	9/18/95	9/18/95	5.44
WS22021	Soil Pile #30 East	9/18/95	9/18/95	12.3
WS22022	Soil Pile #30 West	9/18/95	9/18/95	12.9
WS22023	Soil Pile #31 East	9/18/95	9/18/95	2.80
WS22024	Soil Pile #31 West	9/18/95	9/18/95	5.04
WS22025	Soil Pile #32 East	9/18/95	9/18/95	23.8
WS22026	Soil Pile #32 West	9/18/95	9/18/95	12.9
WS22027	Soil Pile #33 East	9/18/95	9/18/95	5.60
WS22028	Soil Pile #33 West	9/18/95	9/18/95	17.6
WS22029	Soil Pile #35 East	9/18/95	9/18/95	5.69
WS22030	Soil Pile #35 West	9/18/95	9/18/95	12.8
WS22031	Soil Pile #36 East	9/18/95	9/18/95	30.7
WS22032	Soil Pile #36 West	9/18/95	9/18/95	22.0
WS22033	Soil Pile #37 East	9/18/95	9/18/95	14.1
WS22034	Soil Pile #37 West	9/18/95	9/18/95	24.3
WS22035	Soil Pile #38 East	9/18/95	9/18/95	21.4
WS22036	Soil Pile #38 West	9/18/95	9/18/95	10.4
WS22037	Soil Pile #40 East	9/18/95	9/18/95	8.31
WS22038	Soil Pile #40 West	9/18/95	9/18/95	4.53
WS22039	Soil Pile #41 East	9/18/95	9/19/95	14.5
WS22040	Soil Pile #41 West	9/18/95	9/19/95	36.1
WS22041	Soil Pile #42 East	9/18/95	9/19/95	3.24
WS22042	Soil Pile #42 West	9/18/95	9/19/95	19.8
WS22043	Soil Pile #43 East	9/18/95	9/19/95	8.68
WS22044	Soil Pile #43 West	9/18/95	9/19/95	16.1
WS22045	Soil Pile #44 East	9/18/95	9/19/95	8.24
WS22046	Soil Pile #44 West	9/18/95	9/19/95	11.5
WS22047	Soil Pile #45 East	9/18/95	9/20/95	31.1
WS22048	Soil Pile #45 West	9/18/95	9/20/95	26.9
WS22049	Soil Pile #47 East	9/18/95	9/20/95	16.0
WS22050	Soil Pile #47 West	9/18/95	9/20/95	54.2

Pb Detection Limit: 0.120 mg/L

CHAIN OF CUSTODY RECORD

9501-428

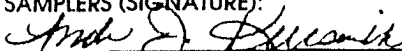

PROJECT NO: 95-113C		SITE NAME: U. S. Steel					SIZE & NO. OF CON- TAINERS	PRESERVATIVES										REMARKS	
SAMPLERS (SIGNATURE): <i>Andr. J. Dykewick</i>																			
SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION													
95-113C -01E	9/15/95		✓		S	Soil Pile # 01 East	1-4oz. glass	✓											10321739
-01W			✓			01 West		✓											80
-06E			✓			06 East		✓											81
-06W			✓			06 West		✓											82
-07E			✓			07 East		✓											83
-07W			✓			07 West		✓											84
-08E			✓			08 East		✓											85
-08W			✓			08 West		✓											86
-09E			✓			09 East		✓											87
-09W			✓			09 West		✓											88
-10E			✓			10 East		✓											89
-10W			✓			10 West		✓											90
-13E			✓			13 East		✓											91

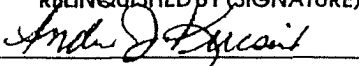
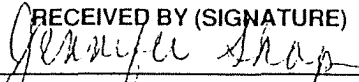
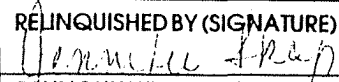
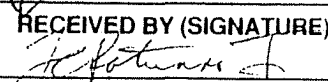
RELINQUISHED BY (SIGNATURE) <i>Andr. J. Dykewick</i>		DATE/TIME 9/15/95 2:35		RECEIVED BY (SIGNATURE) <i>J. N. W. Shop</i>		RELINQUISHED BY (SIGNATURE) <i>J. N. W. Shop</i>		DATE/TIME 9/15/95 3:45		RECEIVED BY (SIGNATURE) <i>E. Fortin</i>	
RELINQUISHED BY (SIGNATURE) <i>J. N. W. Shop</i>		DATE/TIME 9/15/95 3:45		RECEIVED BY (SIGNATURE)		RELINQUISHED BY (SIGNATURE)		DATE/TIME		RECEIVED BY (SIGNATURE)	
RELINQUISHED BY (SIGNATURE)		DATE/TIME		RECEIVED BY (SIGNATURE)		DATE/TIME		REMARKS			

Distribution Original accompanies shipment. Copy to coordinator field files

CHAIN OF CUSTODY RECORD

9501-478

PROJECT NO:		SITE NAME:					SIZE & NO. OF CONTAINERS	TEMP	PH							PRESERVATIVES	REMARKS
95-1130		U. S. Steel															
SAMPLERS (SIGNATURE):																	
 																	
SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION											
95-1130-13W	9/15/95	AS	✓		S	Soil Pile # 13 West		1-4 oz. glass	✓								WIS 21972
-14E			✓			14 East			✓								93
-14W			✓			14 West			✓								94
-16E			✓			16 East			✓								95
-16W			✓			16 West			✓								96
-17E			✓			17 East			✓								97
-17W			✓			17 West			✓								98
-18E			✓			18 East			✓								99
-18W			✓			18 West			✓								77000
-20E			✓			20 East			✓								01
-20W			✓			20 West			✓								07
-21E			✓			21 East			✓								03
-21W			✓			21 West			✓								04

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
	9/15/95 2:35			9/15/95 3:45	
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

CHAIN OF CUSTODY RECORD

9501-478

PROJECT NO: 95-113C		SITE NAME: U. S. Steel					SIZE & NO. OF CONTAINERS	PRESERVATIVES										REMARKS
SAMPLERS (SIGNATURE): <i>Arthur J. Lisciani</i> BDC																		
SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION												
95-113C -22E	9/19/95		✓		S	Soil Pile # 22 East	1-40Z Glass	✓									W: 220.05	
-22W			✓			22 West		✓									06	
-23E			✓			23 East		✓									07	
-23W			✓			23 West		✓									08	
-24E			✓			24 East		✓									09	
-24W			✓			24 West		✓									10	
-25E			✓			25 East		✓									11	
-25W			✓			25 West		✓									12	
-26E			✓			26 East		✓									13	
-26W			✓			26 West		✓									14	
-27E			✓			27 East		✓									15	
-27W			✓			27 West		✓									16	
-28E			✓			28 East		✓									17	

RELINQUISHED BY (SIGNATURE) <i>Arthur J. Lisciani</i>	DATE/TIME 9/15/95 2:31	RECEIVED BY (SIGNATURE) <i>James J. Lisciani</i>	RELINQUISHED BY (SIGNATURE) <i>James J. Lisciani</i>	DATE/TIME 9/15/95 3:45	RECEIVED BY (SIGNATURE) <i>James J. Lisciani</i>
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

9501-428.

CHAIN OF CUSTODY RECORD

PROJECT NO: 95-113C		SITE NAME: U. S. Steel					SIZE & NO. OF CONTAINERS	TEMP									PRESERVATIVES	REMARKS
SAMPLERS (SIGNATURE): <i>And J. L. L...</i>																		
SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION												
95-113C-28W	9/15/15		✓		S	Soil Pile # 28 west	1-4oz glass	✓										W 220 16
-29E			✓			29 East		✓										19
-29W			✓			29 west		✓										20
-30E			✓			30 East		✓										21
-30W			✓			30 west		✓										22
-31E			✓			31 East		✓										23
-31W			✓			31 west		✓										24
-32E			✓			32 East		✓										25
-32W			✓			32 west		✓										26
-33E			✓			33 East		✓										27
-33W			✓			33 west		✓										28
-35E			✓			35 East		✓										29
-35W			✓			35 west		✓										30

RELINQUISHED BY (SIGNATURE) <i>And J. L. L...</i>	DATE/TIME 9/15/15 2:35	RECEIVED BY (SIGNATURE) <i>Jennifer Sharp</i>	RELINQUISHED BY (SIGNATURE) <i>Jennifer Sharp</i>	DATE/TIME 9/15/15 3:45	RECEIVED BY (SIGNATURE) <i>J. L. L...</i>
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

CHAIN OF CUSTODY RECORD

9501-428

PROJECT NO: 95-113C		SITE NAME: U. S. Steel					SIZE & NO. OF CONTAINERS	TEMP	PRESERVATIVES	REMARKS
SAMPLERS (SIGNATURE): <i>Andrew J. Fyfe</i> BDC										
SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION				
95-113C-36E	9/15/95		✓		S	Soil Pile # 36 East	1-4oz. Glass	✓		6922031
-36W			✓			36 West		✓		32
-37E			✓			37 East		✓		33
-37W			✓			37 West		✓		34
-38E			✓			38 East		✓		35
-38W			✓			38 West		✓		36
-40E			✓			40 East		✓		37
-40W			✓			40 West		✓		38
-41E			✓			41 East		✓		39
-41W			✓			41 West		✓		40
-42E			✓			42 East		✓		41
-42W			✓			42 West		✓		42
-43E			✓			43 East		✓		43

RELINQUISHED BY (SIGNATURE) <i>Andrew J. Fyfe</i>	DATE/TIME 9/15/95 2:35	RECEIVED BY (SIGNATURE) <i>Jennifer Sharp</i>	RELINQUISHED BY (SIGNATURE) <i>Jennifer Sharp</i>	DATE/TIME 9/11/95 3:45	RECEIVED BY (SIGNATURE) <i>R. Fyfe</i>
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

[illegible]

APPENDIX K

*E&E'S DECEMBER 13 AND 14, 1995 WASTE CHARACTERIZATION
ANALYTICAL AND QUALITY CONTROL RESULTS*

ecology and environment, inc.
QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 950111K Date: 1/11/95
Report Title: _____
Client: _____

Laboratory Data Review	Supervisor	Date
Metals	<u>AK</u>	<u>9/11/95</u>
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	<u>RD</u>	<u>9/11/95</u>
1st Draft Reviewed by:	<u>AK</u>	<u>9/11/95</u>
2nd Draft Reviewed by: (If needed)	<u>AK</u>	<u>9/11/95</u>

Final Review by Author:

	Signature	Date
ASC Manager:	<u>AK</u>	<u>9/11/95</u>
QA Officer:	<u>AK</u>	<u>9/11/95</u>

Corp. Project Manager: AK 9/11/95
(Internal Job)

All QA Protocol Review Forms
Signed and in File
(to be signed by report writer)

1 Copies of Report Sent to: AK 9/11/95
1 Invoices Sent to Accounting: AK 9/11/95

Comments/Notes: _____

Copy Distribution: White - Report to Project File; Canary - Project Manager; 407064
Pink - Project File.

MEMORANDUM

TO: Barb Peck
FROM: Gary Hahn *Gary Hahn kr*
DATE: September 11, 1995
SUBJECT: SD-6000 Ernst Steel Report
RE: 9501.998
CC: Lab File

Attached is the laboratory report of the analysis conducted on nine samples received at the Analytical Services Center on August 30, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

Facsimiles of draft results were sent to you on 8/31/95, 9/1/95 and 9/5/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure



ecology and environment, inc.

Analytical Services Center

4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852

International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.: 30-6058		Project Name: FANDT STEEL ONE		Project Manager: B. PECKS										
Samplers: (Signatures) <i>Joe Maffey</i>		Field Team Leader: J. PECKS		REMARKS										
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION	STATION LOCATION	NUMBER OF CONTAINERS	Total Lead + Chromium (only) Total Lead + Chromium (only)					
			COMP	GRAB	AIR									
01	8-30-95	2:05	X			LEAD AND CHROMIUM (LOW)	Stockpile #4	1	X					
02		2:16	X				Stockpile #5	1	X					
03		2:15	X				Stockpile #6	1	X					
04		2:20	X				Stockpile 4-6 #	1						
05		2:25	X				TCLP #1	1	X					
06		2:30	X				TCLP #2	1	X					
07		2:35	X				TCLP #2 (DUP)	1	X					
08		2:40	X				TCLP #3	1	X					
09		2:45	X				TCLP #4	1	X					
<p>Hold sample for analysis upon approval or direction by project manager B. PECKS X 2573 FILE (TCLP)</p>														
Relinquished By: (Signature) <i>Joe Maffey</i>			Date/Time: 8-30-95		Received By: (Signature) <i>William H. Johnson</i>		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via:	
Relinquished By: (Signature)			Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number	
Relinquished By: (Signature)			Date/Time:		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date:	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

* See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9501.998

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

-	SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
	-----	-----	-----	-----	-----
LEAD		(ICP) -S			
	32196.01	STOCKPILE #4	08/30/95	08/22/95	08/31/95
	32197.01	STOCKPILE #5	08/30/95	08/22/95	08/31/95
	32198.01	STOCKPILE #6	08/30/95	08/22/95	08/31/95
SOLIDS-TOTAL		(MET) -S			
	32196.01	STOCKPILE #4	08/30/95		08/30/95
	32197.01	STOCKPILE #5	08/30/95		08/30/95
	32198.01	STOCKPILE #6	08/30/95		08/30/95
TCLP - CHROMIUM		(ICP) -S			
	32199.01	STOCKPILE #4-#6	08/30/95	08/31/95	09/05/95
	32200.01	TCLP #1	08/30/95	08/31/95	09/01/95
	32201.01	TCLP #2	08/30/95	08/31/95	09/01/95
	32202.01	TCLP #2 DUP	08/30/95	08/31/95	09/01/95
	32203.01	TCLP #3	08/30/95	08/31/95	09/01/95
	32204.01	TCLP #4	08/30/95	08/31/95	09/01/95
TCLP - LEAD		(ICP) -S			
	32199.01	STOCKPILE #4-#6	08/30/95	09/01/95	09/05/95
	32200.01	TCLP #1	08/30/95	09/01/95	09/01/95
	32201.01	TCLP #2	08/30/95	09/01/95	09/01/95
	32202.01	TCLP #2 DUP	08/30/95	09/01/95	09/01/95
	32203.01	TCLP #3	08/30/95	09/01/95	09/01/95
	32204.01	TCLP #4	08/30/95	09/01/95	09/01/95

TEST CODE : STSMET1

JOB NUMBER : 9501.998

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
-----------	---------	---

EE-95-32196

STOCKPILE #4 96

EE-95-32197

STOCKPILE #5 95

EE-95-32198

STOCKPILE #6 95

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.998

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	32198	95.3	95.0	0.3

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9501.998

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 96 %

SAMPLE ID LAB : EE-95-32196

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #4

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	5600		5.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.998

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 95 %

SAMPLE ID LAB : EE-95-32197

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #5

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	6000		5.3	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9501.998

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 95 %

SAMPLE ID LAB : EE-95-32198

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #6

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	1000		5.3	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

LABORATORY CONTROL SAMPLE (08/22)

9501.998

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	710	1000	71.0

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9501.998

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK (1160)

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-32199
SAMPLE ID CLIENT: STOCKPILE #4-#6

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Chromium	0.14		0.030	5.0
Lead	51		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-32200
SAMPLE ID CLIENT: TCLP #1

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Chromium	0.25	-	0.030	5.0
Lead	25	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-32201
SAMPLE ID CLIENT: TCLP #2

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Chromium	1.2		0.030	5.0
Lead	42		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-32202
SAMPLE ID CLIENT: TCLP #2 DUP

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Chromium	1.3	-	0.030	5.0
Lead	43	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9501.998

ELAP ID : 10486

Ecology and Environment, Inc.

Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB :EE-95-32203

MATRIX: SOLID

SAMPLE ID CLIENT: TCLP #3

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Chromium	0.51		0.030	5.0
Lead	29		0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-32204
SAMPLE ID CLIENT: TCLP #4

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Chromium	0.59	-	0.030	5.0
Lead	55	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF TCLP SOLID SAMPLES

9501.998

(mg/L)				
Parameter	E & E Laboratory No. 95- 32200	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Chromium Total		0.247	0.250	1.2
Lead		25.4	25.4	0.1

THESE RPDs ARE WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED TCLP SOLID SAMPLES

9501.998

(mg/L)					
<hr/>					
Parameter	E & E Laboratory No. 95- 32200	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
<hr/>					
Chromium Total		0.247	5.26	5.0	101
Lead		25.4	31.3	5.0	118
<hr/>					

THESE RECOVERIES ARE WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (08/31)

9501.998

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Chromium Total	1070	1000	107
Lead	1070	1000	107

THESE RECOVERIES ARE WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (09/01)

9501.998

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	973	1000	97.3

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (2005)

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Chromium	ND		0.030	5.0
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number : 9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (2010)

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

ecology and environment, Inc.
QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 4502.874 Date: 12/27/95
Report Title: _____
Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
<u>Metals</u>	<u>JS</u>	<u>12/27/95</u>
<u>Gen...Chem.</u>	_____	_____
<u>GC</u>	_____	_____
<u>GC/MS</u>	_____	_____
<u>Micro, Asbestos</u>	_____	_____
<u>Other</u>	_____	_____

Report Written by: _____

1st Draft Reviewed by: _____

CIRCULATED:

2nd Draft Reviewed by: (If needed) _____

Final Review by Author: _____

ASC Manager: _____

QA Officer: _____

Corp. Project Manager: DAVE ALBERS
(Internal Job)

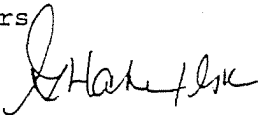
All QA Protocol Review Forms
Signed and in File
(to be signed by report writer)

<u>1</u> Copies of Report Sent to: <u>DAVE ALBERS</u>	<u>JK</u>	<u>12/27/95</u>
<u>1</u> Invoices Sent to Accounting	<u>JK</u>	<u>12/27/95</u>

Comments/Notes: _____

Copy Distribution: White - Report to Project File; Canary - Project Manager; 407064
Pink - Project File.

MEMORANDUM

TO: Dave Albers
FROM: Gary Hahn 
DATE: December 27, 1995
SUBJECT: SD-6000 Ernst Steel Report
RE: 9502.874
CC: Lab File

Attached is the laboratory report of the analysis conducted on twenty-five samples received at the Analytical Services Center on December 13, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

Facsimiles of draft results were sent to you on 12/18/95, 12/22/95 and 12/27/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure

ecology and environment, inc.

Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 2

Project No: SD-6050		Project Name: ERNST STEEL SITE		Project Manager: DAVE RIBBERS		REMARKS									
Samplers: (Signatures) Ric Maxwell		Field Team Leader: G. MAXWELL													
Date/Time: 12-13-95		Sample Type: LOW LEVEL LEAD		Station Location: Stockpile #1		Number of Containers: 1		NOTE: IF TCL-LEAD RESULTS ARE BELOW 500 PPM DON'T RUN ANALYSIS FOR TCL-P LEAD ANY QUESTIONS CONTACT D. RIBBERS X-2404. FILE (HQ) NS/MSD SAMPLE B-2							
STATION NUMBER	DATE	TIME	COMP	GRAB	AIR	EXPECTED COMPOUNDS (Concentration)*						STATION LOCATION		NUMBER OF CON. TAINERS	
1	12-13-95	2:00	X			LOW LEVEL LEAD						Stockpile #1		1	
2		2:05	X									#2		1	
3		2:10	X									#3		1	
4		2:15	X									#4		1	
5		2:20	X									#5		1	
6		2:25	X									#6		1	
7		2:30	X									#7		1	
8		2:35	X									#8		1	
9		2:40	X									#9		1	
10		2:45	X									#10		1	
11		2:50	X									#11		1	
12		2:55	X					#12		1					
13		3:00	X					#13		1					
13-2	12-13-95	3:05	X					Stockpile #13-2		1					
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via:					
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via:					
Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		BL/Airbill Number:					
Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date:					

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Rules
*See CONCENTRATION RANGE on back of form.

0571194



ecology and environment, inc.

Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685 8080, Fax 716/685 0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

Project No SD-6050		Project Name ERNST STEEL SITE		Project Manager DAVE ALBANS											
Samplers (Signatures) Neil Maxwell 12-13-95		Field Team Leader: G. Maxwell													
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION	STATION LOCATION	NUMBER OF CONTAINERS	REMARKS						
			COMP	GRAB	AIR										
14	12-13-95	3:07	X			LOW LEVEL LEAD	Stackpile #14	1	X	X					NOTE: IF TCL-LEAD RESULTS ARE BELOW 500 ppm DON'T RUN ANALYSIS FOR TCLP LEAD. ANY QUESTIONS CONTACT D. ALBANS X-2404 F/E (HQ)
15		3:09	X				#15	1	X	X					
16		3:11	X				#16	1	X	X					
17		3:13	X				#17	1	X	X					
18		3:15	X				#18	1	X	X					
19		3:17	X				#19	1	X	X					
20		3:19	X				#20	1	X	X					
21		3:21	X				#21	1	X	X					
22		3:23	X				#22	1	X	X					
23		3:25	X				#23	1	X	X					
24	12-13-95	3:27	X				Stackpile #24	1	X	X					
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via: N/A			
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number: N/A			
Relinquished By: (Signature)		Date/Time: 12-13-95 4PM		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date: 12-13-95			

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9502.874

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

-	SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
-	-----	-----	-----	-----	-----
LEAD		(ICP) -S			
	37418.01	STOCKPILE #1	12/13/95	12/15/95	12/18/95
	37419.01	STOCKPILE #2	12/13/95	12/15/95	12/18/95
	37420.01	STOCKPILE #3	12/13/95	12/15/95	12/18/95
	37421.01	STOCKPILE #4	12/13/95	12/15/95	12/18/95
	37422.01	STOCKPILE #5	12/13/95	12/15/95	12/18/95
	37423.01	STOCKPILE #6	12/13/95	12/15/95	12/18/95
	37424.01	STOCKPILE #7	12/13/95	12/15/95	12/18/95
	37425.01	STOCKPILE #8	12/13/95	12/15/95	12/18/95
	37426.01	STOCKPILE #9	12/13/95	12/15/95	12/18/95
	37427.01	STOCKPILE #10	12/13/95	12/15/95	12/18/95
	37428.01	STOCKPILE #11	12/13/95	12/15/95	12/18/95
	37429.01	STOCKPILE #12	12/13/95	12/15/95	12/18/95
	37430.01	STOCKPILE #13	12/13/95	12/15/95	12/18/95
	37431.01	STOCKPILE #13-2	12/13/95	12/15/95	12/18/95
	37432.01	STOCKPILE #14	12/13/95	12/15/95	12/18/95
	37433.01	STOCKPILE #15	12/13/95	12/15/95	12/18/95
	37434.01	STOCKPILE #16	12/13/95	12/15/95	12/18/95
	37435.01	STOCKPILE #17	12/13/95	12/15/95	12/18/95
	37436.01	STOCKPILE #18	12/13/95	12/15/95	12/18/95
	37437.01	STOCKPILE #19	12/13/95	12/15/95	12/18/95
	37438.01	STOCKPILE #20	12/13/95	12/15/95	12/18/95
	37439.01	STOCKPILE #21	12/13/95	12/15/95	12/18/95
	37440.01	STOCKPILE #22	12/13/95	12/15/95	12/18/95
	37441.01	STOCKPILE #23	12/13/95	12/15/95	12/18/95
	37442.01	STOCKPILE #24	12/13/95	12/15/95	12/18/95
SOLIDS-TOTAL		(MET) -S			
	37418.01	STOCKPILE #1	12/13/95		12/15/95
	37419.01	STOCKPILE #2	12/13/95		12/15/95
	37420.01	STOCKPILE #3	12/13/95		12/15/95
	37421.01	STOCKPILE #4	12/13/95		12/15/95
	37422.01	STOCKPILE #5	12/13/95		12/15/95
	37423.01	STOCKPILE #6	12/13/95		12/15/95
	37424.01	STOCKPILE #7	12/13/95		12/15/95
	37425.01	STOCKPILE #8	12/13/95		12/15/95
	37426.01	STOCKPILE #9	12/13/95		12/15/95
	37427.01	STOCKPILE #10	12/13/95		12/15/95
	37428.01	STOCKPILE #11	12/13/95		12/15/95
	37429.01	STOCKPILE #12	12/13/95		12/15/95
	37430.01	STOCKPILE #13	12/13/95		12/15/95
	37431.01	STOCKPILE #13-2	12/13/95		12/15/95
	37432.01	STOCKPILE #14	12/13/95		12/15/95
	37433.01	STOCKPILE #15	12/13/95		12/15/95
	37434.01	STOCKPILE #16	12/13/95		12/15/95
	37435.01	STOCKPILE #17	12/13/95		12/15/95
	37436.01	STOCKPILE #18	12/13/95		12/15/95
	37437.01	STOCKPILE #19	12/13/95		12/15/95

JOB NUMBER : 9502.874

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	CLIENT			
-	SAMPLE	SAMPLE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED
	-----	-----	-----	-----
SOLIDS-TOTAL (MET)	-S			
37438.01	STOCKPILE #20		12/13/95	12/15/95
37439.01	STOCKPILE #21		12/13/95	12/15/95
37440.01	STOCKPILE #22		12/13/95	12/15/95
37441.01	STOCKPILE #23		12/13/95	12/15/95
37442.01	STOCKPILE #24		12/13/95	12/15/95
TCLP - LEAD	(ICP) -S			
37418.01	STOCKPILE #1		12/13/95	12/22/95
37419.01	STOCKPILE #2		12/13/95	12/22/95
37425.01	STOCKPILE #8		12/13/95	12/22/95
37428.01	STOCKPILE #11		12/13/95	12/22/95
37430.01	STOCKPILE #13		12/13/95	12/22/95
37431.01	STOCKPILE #13-2		12/13/95	12/22/95
37433.01	STOCKPILE #15		12/13/95	12/22/95
37434.01	STOCKPILE #16		12/13/95	12/22/95
37435.01	STOCKPILE #17		12/13/95	12/22/95
37436.01	STOCKPILE #18		12/13/95	12/22/95
37439.01	STOCKPILE #21		12/13/95	12/22/95
37440.01	STOCKPILE #22		12/13/95	12/22/95

TEST CODE : STSMET1

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-37418		
STOCKPILE #1	84	
EE-95-37419		
STOCKPILE #2	88	
EE-95-37420		
STOCKPILE #3	79	
EE-95-37421		
STOCKPILE #4	85	
EE-95-37422		
STOCKPILE #5	80	
EE-95-37423		
STOCKPILE #6	80	
EE-95-37424		
STOCKPILE #7	91	
EE-95-37425		
STOCKPILE #8	86	
EE-95-37426		
STOCKPILE #9	66	
EE-95-37427		
STOCKPILE #10	81	
EE-95-37428		
STOCKPILE #11	80	
EE-95-37429		
STOCKPILE #12	71	
EE-95-37430		
STOCKPILE #13	77	

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

TEST CODE : STSMET1

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
-----------	---------	---

EE-95-37431

STOCKPILE #13-2

77

EE-95-37432

STOCKPILE #14

78

EE-95-37433

STOCKPILE #15

78

EE-95-37434

STOCKPILE #16

77

EE-95-37435

STOCKPILE #17

82

EE-95-37436

STOCKPILE #18

78

EE-95-37437

STOCKPILE #19

79

EE-95-37438

STOCKPILE #20

80

EE-95-37439

STOCKPILE #21

81

EE-95-37440

STOCKPILE #22

79

EE-95-37441

STOCKPILE #23

68

EE-95-37442

STOCKPILE #24

71

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.874

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	37427	81.1	79.5	2.0
	37437	79.1	80.9	2.2

THESE RPDs ARE WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.

Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 83 %

SAMPLE ID LAB : EE-95-37418

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #1

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	700		6.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 88 %

SAMPLE ID LAB : EE-95-37419

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #2

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2000		5.7	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 79 %

SAMPLE ID LAB : EE-95-37420

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #3

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	400		6.3	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 85 %

SAMPLE ID LAB : EE-95-37421

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #4

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	65		5.9	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 80 %

SAMPLE ID LAB : EE-95-37422

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #5

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	220		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 80 %

SAMPLE ID LAB : EE-95-37423

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #6

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	98		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 91 %

SAMPLE ID LAB : EE-95-37424

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #7

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	150		5.5	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 86 %

SAMPLE ID LAB : EE-95-37425

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #8

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	3300		5.8	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 66 %

SAMPLE ID LAB : EE-95-37426

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #9

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	360		7.6	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-37427

%SOLIDS : 81 %

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #10

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	300		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 81 %

SAMPLE ID LAB : EE-95-37428

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #11

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2600		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 71 %

SAMPLE ID LAB : EE-95-37429

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #12

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	120		7.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 77 %

SAMPLE ID LAB : EE-95-37430

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #13

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2100		6.5	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 77 %

SAMPLE ID LAB : EE-95-37431

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #13-2

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	820		6.5	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 78 %

SAMPLE ID LAB : EE-95-37432

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #14

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	220		6.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 78 %

SAMPLE ID LAB : EE-95-37433

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #15

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1900		6.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 77 %

SAMPLE ID LAB : EE-95-37434

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #16

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	870		6.5	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 82 %

SAMPLE ID LAB : EE-95-37435

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #17

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2200		6.1	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 78 %

SAMPLE ID LAB : EE-95-37436

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #18

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	640		6.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 79 %

SAMPLE ID LAB : EE-95-37437

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #19

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Lead	480		6.3	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 80 %

SAMPLE ID LAB : EE-95-37438

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #20

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	430		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 81 %

SAMPLE ID LAB : EE-95-37439

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #21

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2400		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 79 %

SAMPLE ID LAB : EE-95-37440

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #22

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	760		6.3	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 68 %

SAMPLE ID LAB : EE-95-37441

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #23

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	58		7.4	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 71 %

SAMPLE ID LAB : EE-95-37442

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #24

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	120		7.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.874

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead	37423	78.7	228	97.4*
	37442	86.8	28.2	102*

* = THESE RPDs ARE NOT WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9502.874

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	37423	78.7	303	50	449*
	37442	86.8	97.1	50	20.6*

* = THESE RECOVERIES ARE NOT WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR POST SPIKED SOLID SAMPLES

9502.874

(mg/kg as received)					
Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	37423	78.7	244	157	105
	37442	86.8	280	174	111

THESE RECOVERIES ARE WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (133)

9502.874

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1060	1000	106

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (134)

9502.874

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1080	1000	108

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK (133)

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK (134)

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB :EE-95-37418

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #1

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	2.0	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37419
SAMPLE ID CLIENT: STOCKPILE #2

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	4.4	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB :EE-95-37425

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #8

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	13	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number : 9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : EE-95-37428

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #11

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.73	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37430
SAMPLE ID CLIENT: STOCKPILE #13

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	4.5	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB :EE-95-37431

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #13-2

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	2.0	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number : 9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : EE-95-37433

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #15

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.8	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB :EE-95-37434

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #16

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.6	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB :EE-95-37435

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #17

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.7	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37436
SAMPLE ID CLIENT: STOCKPILE #18

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number : 9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : EE-95-37439

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #21

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.3	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37440
SAMPLE ID CLIENT: STOCKPILE #22

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.874

(mg/L)				
<hr/>				
Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
<hr/>				
Lead	37440	ND	ND	NC
<hr/>				

ND = NOT DETECTED

NC = NOT CALCULABLE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9502.874

(mg/L)					
Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	37440	ND	5.14	5.0	103

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (156)

9502.874

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	988	1000	98.8

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (160)

9502.874

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1080	1000	108

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (156)

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number : 9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (160)

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

ecology and environment, inc.
QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 9502.880

Date: 12/27/95

Report Title:

Client:

ERNST STEEL

Laboratory Data Review	Supervisor	Date
Metals	JS	12/27/95
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

Report Written by:

1st Draft Reviewed by:

CIRCULATED:

2nd Draft Reviewed by: (If needed)

Final Review by Author:

ASC Manager:

QA Officer:

Corp. Project Manager:
(Internal Job)

All QA Protocol Review Forms
Signed and in File
(to be signed by report writer)

Copies of Report Sent to:

Invoices Sent to Accounting

Comments/Notes:

Signature

Date

JS

12/27/95

JS

12/27/95

JS

12/27/95

JS

12.27.95

DAVE ALBERS

DAVE ALBERS JS

12/27/95

JS

12/27/95

Copy Distribution: White - Report to Project File; Canary - Project Manager;
Pink - Project File.

407064

MEMORANDUM

TO: Dave Albers
FROM: Gary Hahn *G. Hahn / gh*
DATE: December 27, 1995
SUBJECT: SD-6000 Ernst Steel Report
RE: 9502.880
CC: Lab File

Attached is the laboratory report of the analysis conducted on twelve samples received at the Analytical Services Center on December 14, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

Facsimiles of draft results were sent to you on 12/18/95 and 12/27/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure



Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685 8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No SD-6050			Project Name ERNST STEEL SITE			Project Manager: DAVE ALBERS X-2404			<div style="text-align: right;">REMARKS</div>											
Samplers: (Signatures) Aie manbell 12-14-95						Field Team Leader: G. MAXWELL F/E														
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CON- TAINERS	<div style="text-align: center;">TCL - (LEAD)</div>											
			COMP	GRAB	AIR															
1	12-14-95	10:05		X		LOW LEVEL FIELD	Stockpile #25	1	X											
2		10:15		X			Stockpile #26	1	X											
3		10:17		X			Stockpile #26-2	1	X											
4		10:23		X			Stockpile #27	1	X											
5		10:30		X			Stockpile #28	1	X											
6		10:55		X			Stockpile #29	1	X											
7		10:40		X			Stockpile #30	1	X											
8		10:45		X			Stockpile #31	1	X											
9		11:37		X			Stockpile #32	1	X											
10		11:42		X			Stockpile #33	1	X											
11		11:47		X			Stockpile #34	1	X											
12		11:30		X			Stockpile #35	1	X											
13		11:15		X			Stockpile #36	1	X											
14	12-14-95	11:17		X			Stockpile #36-2	1	X											
Relinquished By: (Signature)			Date/Time			Received By: (Signature)			Relinquished By: (Signature)			Date/Time			Received By: (Signature)			Ship Via: Ma		
Relinquished By: (Signature)			Date/Time			Received By: (Signature)			Relinquished By: (Signature)			Date/Time			Received By: (Signature)			BL/Airbill Number: Ma		
Relinquished By: (Signature) Roe Maxwell			Date/Time 12-14-95/12:15			Received For Laboratory By: (Signature) 3/16/11/11			Relinquished By: (Signature)			Date/Time			Received For Laboratory By: (Signature)			Date: 12-11-95		

JOB NUMBER : 9502.880

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	CLIENT		DATE	DATE	DATE
-	SAMPLE	SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
	-----	-----	-----	-----	-----
LEAD		(ICP) -S			
	37491.01	STOCKPILE# 25	12/14/95	12/15/95	12/18/95
	37492.01	STOCKPILE# 26	12/14/95	12/15/95	12/18/95
	37493.01	STOCKPILE# 27	12/14/95	12/15/95	12/18/95
	37494.01	STOCKPILE# 28	12/14/95	12/15/95	12/18/95
	37495.01	STOCKPILE# 29	12/14/95	12/15/95	12/18/95
	37496.01	STOCKPILE# 30	12/14/95	12/15/95	12/18/95
	37497.01	STOCKPILE# 31	12/14/95	12/15/95	12/18/95
	37498.01	STOCKPILE# 32	12/14/95	12/15/95	12/18/95
	37499.01	STOCKPILE# 33	12/14/95	12/15/95	12/18/95
	37500.01	STOCKPILE# 34	12/14/95	12/15/95	12/18/95
	37501.01	STOCKPILE# 35	12/14/95	12/15/95	12/18/95
	37502.01	STOCKPILE# 36	12/14/95	12/15/95	12/18/95
SOLIDS-TOTAL		(MET) -S			
	37491.01	STOCKPILE# 25	12/14/95		12/15/95
	37492.01	STOCKPILE# 26	12/14/95		12/15/95
	37493.01	STOCKPILE# 27	12/14/95		12/15/95
	37494.01	STOCKPILE# 28	12/14/95		12/15/95
	37495.01	STOCKPILE# 29	12/14/95		12/15/95
	37496.01	STOCKPILE# 30	12/14/95		12/15/95
	37497.01	STOCKPILE# 31	12/14/95		12/15/95
	37498.01	STOCKPILE# 32	12/14/95		12/15/95
	37499.01	STOCKPILE# 33	12/14/95		12/15/95
	37500.01	STOCKPILE# 34	12/14/95		12/15/95
	37501.01	STOCKPILE# 35	12/14/95		12/15/95
	37502.01	STOCKPILE# 36	12/14/95		12/15/95
TCLP - LEAD		(ICP) -S			
	37491.01	STOCKPILE# 25	12/14/95	12/22/95	12/23/95
	37492.01	STOCKPILE# 26	12/14/95	12/22/95	12/23/95
	37494.01	STOCKPILE# 28	12/14/95	12/22/95	12/23/95
	37495.01	STOCKPILE# 29	12/14/95	12/22/95	12/23/95

TEST CODE : STSMET1

JOB NUMBER : 9502.880

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : SOLIDS-TOTAL (MET)

UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-37491		
STOCKPILE# 25	75	
EE-95-37492		
STOCKPILE# 26	73	
EE-95-37493		
STOCKPILE# 27	85	
EE-95-37494		
STOCKPILE# 28	79	
EE-95-37495		
STOCKPILE# 29	81	
EE-95-37496		
STOCKPILE# 30	74	
EE-95-37497		
STOCKPILE# 31	72	
EE-95-37498		
STOCKPILE# 32	74	
EE-95-37499		
STOCKPILE# 33	77	
EE-95-37500		
STOCKPILE# 34	69	
EE-95-37501		
STOCKPILE# 35	82	
EE-95-37502		
STOCKPILE# 36	73	

QUALIFIERS: C = COMMENT
J = ESTIMATED VALUE

ND = NOT DETECTED

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.880

(%)				
<hr/>				
Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
<hr/>				
Solids-Total	37495	80.7	77.1	4.5
<hr/>				

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9502.880

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 75 %

SAMPLE ID LAB : EE-95-37491

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 25

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	640	-	6.7	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 73 %

SAMPLE ID LAB : EE-95-37492

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 26

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	650		6.8	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.880

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 85 %

SAMPLE ID LAB : EE-95-37493

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 27

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	270		5.9	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 79 %

SAMPLE ID LAB : EE-95-37494

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 28

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	510		6.3	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.880

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-37495

%SOLIDS : 81 %

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 29

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1900		6.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880

ELAP ID : 10486

Ecology and Environment, Inc.

Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 74 %

SAMPLE ID LAB : EE-95-37496

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 30

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	42		6.8	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.880

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 72 %

SAMPLE ID LAB : EE-95-37497

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 31

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	210		6.9	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 74 %

SAMPLE ID LAB : EE-95-37498

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 32

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	420		6.8	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.880

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 77 %

SAMPLE ID LAB : EE-95-37499

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 33

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	100	-	6.5	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 69 %

SAMPLE ID LAB : EE-95-37500

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 34

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	180		7.2	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.880

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 82 %

SAMPLE ID LAB : EE-95-37501

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 35

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	56		6.1	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9502.880

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 73 %

SAMPLE ID LAB : EE-95-37502

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 36

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	130		6.8	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.880

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead	37492	472	512	8.1
	37502	92.5	82.3	11.7

THESE RPDs ARE WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9502.880

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	37492	472	495	50	4X
	37502	92.5	198	50	211*

WITH THE EXCEPTION OF THE VALUE FLAGGED "*", THESE RECOVERIES ARE
WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR POST SPIKED SOLID SAMPLES

9502.880

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	37502	92.5	295	185	109

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (135)

9502.880

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1080	1000	108

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER : 9502.880

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK (135)

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND	-	5.0	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB :EE-95-37491

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 25

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.51	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number : 9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : EE-95-37492
SAMPLE ID CLIENT: STOCKPILE# 26

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.2	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.880

ELAP ID : 10486

Ecology and Environment, Inc.

Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB :EE-95-37494

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 28

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number : 9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : EE-95-37495

SAMPLE ID CLIENT: STOCKPILE# 29

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.96	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

LABORATORY CONTROL SAMPLE (160)

9502.880

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1080	1000	108

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (160)

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

APPENDIX L

*PROCESSED SOIL WASTE CHARACTERIZATION
ANALYTICAL AND QUALITY CONTROL RESULTS*

LABORATORY REPORT - TCLP METALS

Cust NWEC & C, Inc.
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14038
Attn: RUSS SAVAGE/ GREG WEBER
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/1746 Walden
Date FAXED: 01/19/96
Lab Director



SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7915
Sample ID #1 (CUST)	Pile # 1
Sample ID #2 (CUST)	Grab # 1
Matrix	Soil
Sampled By	Russ Savage
Date Sampled	01/15/96
Date Received	01/15/96 04:45
Date Analyzed	01/16/95
Date Reported	01/19/96

Results	Det Limit*
---------	------------

Lead	0.15	0.05
------	------	------

LABORATORY REPORT - TCLP METALS

Cust NWEC & C, Inc.
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14038
Attn: RUSS SAVAGE/ GREG WEBER
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/1746 Walden
Date FAXED: 01/19/96
Lab Director



SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7916
Sample ID #1 (CUST)	Pile # 1
Sample ID #2 (CUST)	Grab # 2
Matrix	Soil
Sampled By	Russ Savage
Date Sampled	01/15/96
Date Received	01/15/96 04:45
Date Analyzed	01/16/95
Date Reported	01/19/96

Results Det Limit*

Lead	0.07	0.05
------	------	------

LABORATORY REPORT - TCLP METALS

Cust NVEC & C, Inc.
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14038
Attn: RUSS SAVAGE/ GREG WEBER
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/1746 Walden
Date FAXED: 01/19/96
Lab Director

William Savage

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7917
Sample ID #1 (CUST)	Pile # 1
Sample ID #2 (CUST)	Grab # 3
Matrix	Soil
Sampled By	Russ Savage
Date Sampled	01/15/96
Date Received	01/15/96 04:45
Date Analyzed	01/16/95
Date Reported	01/19/96

Results Det Limit*

Lead	0.14	0.05
------	------	------

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NWEC & C, Inc.
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14038
Attn: RUSS SAVAGE/ GREG WEBER
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/1746 Walden
Date FAXED: 01/19/96
Lab Director

William Scott

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7918
Sample ID #1 (CUST)	Pile # 1
Sample ID #2 (CUST)	Grab # 4
Matrix	Soil
Sampled By	Russ Savage
Date Sampled	01/15/96
Date Received	01/15/96 04:45
Date Analyzed	01/16/95
Date Reported	01/19/96

Results Det Limit*

Lead	0.37	0.05
------	------	------

7915



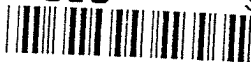
7916



7917



7918

WORK
SHEET

Middlesex NY 14507

FAX 1-716-554-4114

WORK ORDER NYS

VIRONMENTAL SOILS TESTS

NY STATE CERTIFIED LAB #11369

CUSTOMER: NWEC & C, Inc
 ADDRESS: 3553 Crittenden Rd.
 CITY: Crittenden, NY 14038
 STATE/ZIP: _____
 PHONE: (716) 937-6527
 FAX: 937-9360
 CONTACT: R. Savage / G. Weber

PO NUMBER: _____
 PROJECT NO: _____
 PROJECT CUST: _____
 PROJECT SITE: Benderson / 1746 Walder
 SEND RESULTS: ☒ FAX ☐ EXPR MAIL
 PHONE RESULTS: ☐ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTBE
 8021 + MTBE
 503.1
 TPH GASOLINE
 TPH DIESEL
 8240 #
 8260 (Stars) 4
 8260
 8 RCRA METALS (DIRECT)

8270 (Stars)
 625
 PCB'S
 602
 624
 TOX
 LEAD ONLY

FULL TCLP
 TCLP LESS HERBS & PESTS
 TCLP VOLATILES
 TCLP SEMI-VOLATILES
 8 RCRA METALS (TCLP)
 HERBICIDES
 PESTICIDES
 REACTIVITY
 CORROSIVITY
 FLASH POINT
 (DIESEL)
 (GAS OR OIL)

LIST ANALYSIS REQUIRED

SUSPECT: _____

SPECIAL INSTRUCTIONS: ASAP Turnaround

DATE TIME SAMPLE DESCRIPTION / LOCATION / MATRIX

1/15/96		Pile #1 Grab #1	X						
1/15/96		Pile #1 Grab #2	X						
1/15/96		Pile #1 Grab #3	X						
1/15/96		Pile #1 Grab #4 - Roadside Pile #1 Grab #4	X						
		one labeled (1-A)							

CHAIN OF CUSTODY RECORD

of SAMPLES 4 # of CONTAINERS 4 (500 ml)SAMPLED BY: Greg WeberSIGNATURE: Greg WeberNAME: NWEC & C, IncDATED: 1/15/96 TIME: 3:28HOW SENT: ☐ EXP MAIL ☒ HAND CARRYSIGNATURE 2: Greg WeberNAME 2: Greg WeberDATED 2: 1/15/96 TIME: 3:28HOW SENT 2: ☐ EXP MAIL ☒ HAND CARRYSAMPLES RECEIVED BY: Greg WeberSIGNATURE: Greg WeberNAME: Greg WeberDATE: 1/15/96 TIME: 4:45HOW RECD: ☐ EXP MAIL ☒ HAND CARRY

FREIGHT IN: \$ _____

LOGGED IN: 1/15/96 TIME: 4:45SAMPLE COND: _____ SAMPLE TEMP: 48

LAB NOTES: _____

White-Lab, Yellow-
 Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

expwo20doc

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY, INC.
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14038
Attn: RUSS SAVAGE/ GREG WEBER
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/1746 Walden
Date FAXED: 01/17/96
Lab Director *Willh-Sgt*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method:

EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)
Sample ID #1 (CUST)
Sample ID #2 (CUST)
Matrix
Sampled By
Date Sampled
Date Received
Date Analyzed
Date Reported

7919
Pile # 2
Comp # 1
Soil
Russ Savage
01/16/96 NA
01/16/96 04:45
01/17/96
01/17/96

Results Det Limit*

Lead

0.15	0.05
------	------

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY, INC.
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14038
Attn: RUSS SAVAGE/ GREG WEBER

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/1746 Walden
Date FAXED: 01/17/96
Lab Director *William A. ...*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)
Sample ID #1 (CUST)
Sample ID #2 (CUST)
Matrix
Sampled By
Date Sampled
Date Received
Date Analyzed
Date Reported

7920
Pile # 3
Comp # 1
Soil
Russ Savage
01/16/96 NA
01/16/96 04:45
01/17/96
01/17/96

Results Det Limit*

Lead

0.68	0.05
------	------

Tel: 1-716-554-5347

Tel: 1-800-THE LABS

Tel: 1-800-843-5227

FAX 1-716-554-4114

WORKORDER NYS

SPECIALIZING IN ENVIRONMENTAL SOILS TESTS

NY STATE CERTIFIED LAB #11369

CUSTOMER: NWEC+C, Inc.
ADDRESS: 3553 Crittenden Rd
CITY: Crittenden, NY 14038
STATE/ZIP: _____
PHONE: (716) 937-6527
FAX: 937-9360
CONTACT: R. Savage / G. Weber

PO NUMBER: _____
PROJECT NO: _____
PROJECT CUST: _____
PROJECT SITE: Benderson/1746 Walden

SEND RESULTS: ☐ FAX ☐ EXPR MAIL
PHONE RESULTS: ☐ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTBE
8021 - MTBE
503.1
TPH GASOLINE
TPH DIESEL
8240
8260 (Stars)
8260
8 RCRA METALS (DIRECT)

8270 (Stars)
625
PCB'S
602
624
TOX
LEAD ONLY

FULL TCLP
TCLP LESS HERBS & PESTS
TCLP VOLATILES
TCLP SEMI-VOLATILES
8 RCRA METALS (TCLP)
HERBICIDES
PESTICIDES
REACTIVITY
CORROSIVITY (DIESEL)
FLASH POINT (GAS OR OIL)

SUSPECT :

SPECIAL INSTRUCTIONS: _____

LIST ANALYSIS REQUIRED

DATE	TIME	SAMPLE DESCRIPTION / LOCATION / MATRIX
11/11/2010	10:00	100' - 150' - 200' - 250' - 300' - 350' - 400' - 450' - 500' - 550' - 600' - 650' - 700' - 750' - 800' - 850' - 900' - 950' - 1000'

1/16/96		Treated Soil Pile 2 Comp #1
1/16/96		Treated Soil Pile 3 Comp #1

[illegible]

CHAIN OF CUSTODY RECORD

of SAMPLES 2 # of CONTAINERS 2

SAMPLED BY: Russel J. Savage

SIGNATURE: [Signature]

NAME: _____

DATED: 1/16/96 TIME: ____:____

HOW SENT: ☐EXP MAIL ☐HAND CARRY

SIGNATURE 2: _____

NAME 2: _____
 DATED: ____/____/____ TIME: ____:____:____

DATED 2: 7 / 7 TIME: ____:____
 HOW SENT 2: ☐ BY MAIL ☐ HAND CARRY

HOW SENT 2: ☐EXP MAIL ☐HAND CARRY

SAMPLES RECEIVED BY: _____

SIGNATURE: _____

NAME: _____

DATE: / / TIME: :

HOW RECD: ☐ EXP MAIL ☐ HAND CARRY

FREIGHT IN: \$ _____
 LOGGED IN: _____ TIME: _____

LOGGED IN: 7/7 TIME: ____:____
SAMPLE COND: SAMPLE TEMP:

SAMPLE COND. _____ SAMPLE TEMP. _____
LAB NOTES: _____

LAB NOTES. _____

White-Lab, Yellow-
Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

expwo20doc.

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

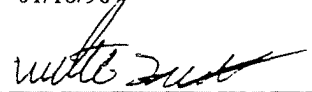
FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY, INC.
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14038
Attn: RUSS SAVAGE/ GREG WEBER
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/1746 Walden
Date FAXED: 01/18/96
Lab Director 

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7921
Sample ID #1 (CUST)	Pile # 4
Sample ID #2 (CUST)	
Matrix	Soil
Sampled By	Russ Savage
Date Sampled	01/17/96 NA
Date Received	01/16/96 05:20
Date Analyzed	01/18/96
Date Reported	01/18/96

Original:

Results Det Limit*

Lead	0.68	0.05
------	------	------

Duplicat (sample obtained from bottom of container and tumbled separately
from sample obtained at top)

Results Det Limit*

Lead	0.39	0.05
------	------	------

7921

FARM LAB
MISC

PO Box 40 5611 Water Street Middlesex NY 14507

HE LABS

Tel: 1-800-843-5227 FAX 1-716-554-4114

WORKORDER

NYS

SPECIALIZING IN ENVIRONMENTAL SOILS TESTS
NY STATE CERTIFIED LAB #11369

CUSTOMER: NATURES WAY EC&C
 ADDRESS: 3553 CRITTENDEN RD.
 CITY: CRITTENDEN
 STATE/ZIP: NY 14004
 PHONE: (716) 937-6527
 FAX: _____
 CONTACT: RUSS SAVAGE / GREG WEBER

PO NUMBER: _____
 PROJECT NO: _____
 PROJECT CUST: _____
 PROJECT SITE: BENDERCON / WALDEN AVE
 SEND RESULTS: ☒ FAX ☐ EXPR MAIL
 PHONE RESULTS: ☒ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTBE
 8021 + MTBE
 503.1
 TPH GASOLINE
 TPH DIESEL
 8240
 8260 (Stars)
 8260
 8 RCRA METALS (DIRECT)

8270 (Stars)
 625
 PCB'S
 602
 624
 TOX
 LEAD ONLY

FULL TCLP
 TCLP LESS HERBS & PESTS
 TCLP VOLATILES
 TCLP SEMI-VOLATILES
 8 RCRA METALS (TCLP)
 HERBICIDES
 PESTICIDES
 REACTIVITY
 CORROSIVITY
 FLASH POINT
 (DIESEL)
 (GAS OR OIL)

SUSPECT: _____

SPECIAL INSTRUCTIONS: QUICK TURNAROUND (4 H)

LIST ANALYSIS REQUIRED

DATE TIME SAMPLE DESCRIPTION / LOCATION / MATRIX

1/17/96	11:00	TREATED SOIL PILE #4	✓						

CHAIN OF CUSTODY RECORD

of SAMPLES 1 # of CONTAINERS (250ml)

SAMPLED BY: P. J. JENNIFER
 SIGNATURE: [Signature]
 NAME: _____
 DATED: 1/17/96 TIME: 5:30
 HOW SENT: ☐ EXP MAIL ☐ HAND CARRY
 SIGNATURE 2: _____
 NAME 2: _____
 DATED 2: 1/17/96 TIME: 5:30
 HOW SENT 2: ☐ EXP MAIL ☐ HAND CARRY

SAMPLES RECEIVED BY: Express Labs
 SIGNATURE: [Signature]
 NAME: _____
 DATE: 1/17/96 TIME: 5:30
 HOW RECD: ☐ EXP MAIL ☐ HAND CARRY
 FREIGHT IN: \$ _____
 LOGGED IN: 1/17/96 TIME: 5:30
 SAMPLE COND: _____ SAMPLE TEMP: 44
 LAB NOTES: _____

White-Lab, Yellow-
 Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

expwo20doc.

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/ Walden Ave.
Date FAXED: 01/19/96
Lab Director *W. H. J. W.*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7929
Sample ID #1 (CUST)	Treated Soil Pile
Sample ID #2 (CUST)	# 5 Composite
Matrix	Soil
Sampled By	Brian O' Donnell
Date Sampled	01/18/96 01:30
Date Received	01/18/96 04:55
Date Analyzed	01/19/96
Date Reported	01/19/96

Results Det Limit*

Lead

0.86	0.05
------	------

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/ Walden Ave.
Date FAXED: 01/19/96
Lab Director *Walter Savage*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7930
Sample ID #1 (CUST)	Treated Soil Pile
Sample ID #2 (CUST)	#6 Composite
Matrix	Soil
Sampled By	Brian O' Donnell
Date Sampled	01/18/96 01:40
Date Received	01/18/96 04:55
Date Analyzed	01/19/96
Date Reported	01/19/96

Results Det Limit*

Lead	0.18	0.05
------	------	------

7929

7930

WORK
SHEET

x 40 5611 Water Street Middlesex NY 14507

Tel: 1-800-843-5227 FAX 1-716-554-4114

WORKORDER NYSSPECIALIZING IN ENVIRONMENTAL SOILS TESTS
NY STATE CERTIFIED LAB #11369

CUSTOMER: NATURES WAY
 ADDRESS: 3553 CRITTENDEN RD
 CITY: CRITTENDEN NY 14064
 STATE/ZIP: _____
 PHONE: (716) 937-6527
 FAX: _____
 CONTACT: RUSS SAVAGE / GREG WEBER

PO NUMBER: _____
 PROJECT NO: _____
 PROJECT CUST: 1746
 PROJECT SITE: RENDERSUN / WALDEN AVE
 SEND RESULTS: ☒ FAX ☐ EXPR MAIL
 PHONE RESULTS: ☐ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTBE	8270 (Stars)	FULL TCLP
8021 + MTBE	625	TCLP LESS HERBS & PESTS
503.1	PCB'S	TCLP VOLATILES
TPH GASOLINE	602	TCLP SEMI-VOLATILES
TPH DIESEL	624	8 RCRA METALS (TCLP)
8240	TOX	HERBICIDES
8260 (Stars)	LEAD ONLY	PESTICIDES
8260		REACTIVITY
8 RCRA METALS (DIRECT)		CORROSIVITY
		FLASH POINT

LIST ANALYSIS REQUIRED

(DIESEL)
(GAS OR OIL)
SUSPECT: _____

SPECIAL INSTRUCTIONS: A.M. TURBIDITY**DATE TIME SAMPLE DESCRIPTION / LOCATION / MATRIX**

11/1/96	1:30	TREATED SOIL PILE #5 COMPOSITE	✓						
11/1/96	1:40	TREATED SOIL PILE #6 COMPOSITE	✓						

CHAIN OF CUSTODY RECORD# of SAMPLES 2 # of CONTAINERS 2 (150 ml)SAMPLED BY: B. O'DonnellSIGNATURE: [Signature]

NAME: _____

DATED: 1/1 TIME: _____HOW SENT: ☐ EXP MAIL ☒ HAND CARRYSIGNATURE 2: Greg WeberNAME 2: Greg WeberDATED 2: 1/18/96 TIME: _____HOW SENT 2: ☐ EXP MAIL ☐ HAND CARRYSAMPLES RECEIVED BY: Express MailSIGNATURE: [Signature]

NAME: _____

DATE: 1/18/96 TIME: 4:55HOW RECD: ☒ EXP MAIL ☒ HAND CARRYFREIGHT IN: \$LOGGED IN: 1/18/96 TIME: 5:00SAMPLE COND: _____ SAMPLE TEMP: 53

LAB NOTES: _____

White-Lab, Yellow-
Customer, Hard-Lab**RESULTS WHEN YOU WANT THEM**

expwo20doc.

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/ Walden Ave.
Date FAXED: 02/09/96
Lab Director *William J. Savage*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7957
Sample ID #1 (CUST)	PILE #7 COMP
Sample ID #2 (CUST)	
Matrix	SOIL
Sampled By	R.J. SAVAGE
Date Sampled	01/29/96 01:45
Date Received	01/29/96 05:40
Date Analyzed	01/31/96
Date Reported	02/09/96

Results Det Limit*

Lead	0.36	0.05
------	------	------

Information used for TCLP fluid determination:

Initial pH 9.78

Final pH 1.99

pH of TCLP Fluid #1: 4.97

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/ Walden Ave.
Date FAXED: 02/09/96
Lab Director *William Savage*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7958
Sample ID #1 (CUST)	PILE #8
Sample ID #2 (CUST)	
Matrix	SOIL
Sampled By	R.J. SAVAGE
Date Sampled	01/29/96 01:45
Date Received	01/29/96 05:40
Date Analyzed	01/31/96
Date Reported	02/09/96

Results Det Limit*

Lead	0.51	0.05
------	------	------

Information used for TCLP fluid determination:

Initial pH 8.86
Final pH 1.87

pH of TCLP Fluid #1: 4.97

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/ Walden Ave.
Date FAXED: 02/09/96
Lab Director *William So a*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7959
Sample ID #1 (CUST)	PILE #9
Sample ID #2 (CUST)	
Matrix	SOIL
Sampled By	R.J. SAVAGE
Date Sampled	01/29/96 01:45
Date Received	01/29/96 05:40
Date Analyzed	01/31/96
Date Reported	02/09/96

Results Det Limit*

Lead	0.20	0.05
------	------	------

Information used for TCLP fluid determination:

Initial pH 7.82

Final pH 1.82

pH of TCLP Fluid #1: 4.97

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/ Walden Ave.
Date FAXED: 02/09/96
Lab Director *Willie Sy*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7960
Sample ID #1 (CUST)	PILE #10
Sample ID #2 (CUST)	
Matrix	SOIL
Sampled By	R.J. SAVAGE
Date Sampled	01/29/96 01:45
Date Received	01/29/96 05:40
Date Analyzed	01/31/96
Date Reported	02/09/96

Results Det Limit*

Lead	1.16	0.05
------	------	------

Information used for TCLP fluid determination:

Initial pH 8.96

Final pH 1.97

pH of TCLP Fluid #1: 4.97

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/ Walden Ave.
Date FAXED: 01/31/96
Lab Director *W. Savage*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7961
Sample ID #1 (CUST)	PILE # 11
Sample ID #2 (CUST)	
Matrix	SOIL
Sampled By	R.J. SAVAGE
Date Sampled	01/29/96 03:00
Date Received	01/29/96 05:40
Date Analyzed	01/31/96
Date Reported	01/31/96

Results Det Limit*

Lead	0.34	0.05
------	------	------

Information used for TCLP fluid determination:

Initial pH 8.43
Final pH 1.98

pH of TCLP Fluid #1: 4.97

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/ Walden Ave.
Date FAXED: 02/09/96
Lab Director *W. J. Savage*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7962
Sample ID #1 (CUST)	PILE #9
Sample ID #2 (CUST)	
Matrix	SOIL
Sampled By	R.J. SAVAGE
Date Sampled	01/29/96 01:45
Date Received	01/29/96 05:40
Date Analyzed	01/31/96
Date Reported	02/09/96

Results Det Limit*

Lead	0.69	0.05
------	------	------

Information used for TCLP fluid determination:

Initial pH 8.33
Final pH 1.90

pH of TCLP Fluid #1: 4.97

WORKORDER NYS

NY STATE CERTIFIED LAB #11597

CUSTOMER: AWFEC
 ADDRESS: _____
 CITY: _____
 STATE/ZIP: _____
 PHONE: _____

FAX: _____

CONTACT: _____

PO NUMBER: _____
 PROJECT NO: _____
 PROJECT CUST: _____
 PROJECT SITE: 1746 WADEN
TREATED SOIL

SEND RESULTS: ☒ FAX ☐ EXPR MAIL

PHONE RESULTS: ☐ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

3020 BTEX + MTBE
 8021 + MTBE
 503.1
 TPH GASOLINE
 TPH DIESEL
 8240
 8260 (Stars)
 8260
 8 RCRA METALS (DIRECT)

8270 (Stars)
 623
 PCB'S
 602
 624
 TOX
 LEAD ONLY

FULL TCLP
 TCLP LESS HERBS & PESTS
 TCLP VOLATILES
 TCLP SEMI-VOLATILES
 8 RCRA METALS (TCLP)
 HERBICIDES
 PESTICIDES
 REACTIVITY
 CORROSIVITY
 FLASH POINT

(DIESEL)
 (GAS OR OIL)

LIST ANALYSIS REQUIRED

SPECIAL INSTRUCTIONS: Report pH @ 100 mg/l
extract in fluid used and # of actual extract
tested

DATE	TIME	SAMPLE DESCRIPTION / LOCATION / MATRIX							
1/28/96	1:45	PILE # 7 Comp	X						
		PILE # 8 Comp	X						
		PILE # 9 Comp	X						
		PILE # 9 Comp duplicate	X						
		PILE # 10 Comp	X						
	3:00	PILE # 11 Comp	X						

CHAIN OF CUSTODY RECORD

of SAMPLES 6 # of CONTAINERS 6
 SAMPLED BY: R. T. Savage
 SIGNATURE: _____
 NAME: Russell T. Savage
 DATED: 1/28/96 TIME: 3:30
 HOW SENT: ☐ EXP MAIL ☒ HAND CARRY
 SIGNATURE 2: _____
 NAME 2: Charles San
 DATED 2: 1/28/96 TIME: 5:00
 HOW SENT 2: ☐ EXP MAIL ☒ HAND CARRY

SAMPLES RECEIVED BY: Express Lab
 SIGNATURE: _____
 NAME: _____
 DATE: 1/28/96 TIME: 5:40
 HOW RECD: ☐ EXP MAIL ☒ HAND CARRY
 FREIGHT IN: \$ _____
 LOGGED IN: 1/30/96 TIME: 8:00
 SAMPLE COND: _____ SAMPLE TEMP: 41
 LAB NOTES: _____

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/05/96
Lab Director *Willie A. [Signature]*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7986
Sample ID #1 (CUST)	Pile #12
Sample ID #2 (CUST)	Composite
Matrix	Soil
Sampled By	Russ Savage
Date Sampled	02/01/96 01:00
Date Received	02/01/96 04:50
Date Analyzed	02/05/96
Date Reported	02/05/96

Results Det Limit*

Lead	0.71	0.05
------	------	------

pH of TCLP Fluid #1 and Sample:

Before Tumbling 5.32

After Tumbling 6.26

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

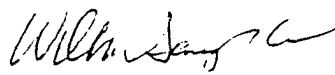
FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/05/96
Lab Director 

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7987
Sample ID #1 (CUST)	Pile #13
Sample ID #2 (CUST)	Composite
Matrix	Soil
Sampled By	Russ Savage
Date Sampled	02/01/96 01:00
Date Received	02/01/96 04:50
Date Analyzed	02/05/96
Date Reported	02/05/96

Results Det Limit*

Lead	1.15	0.05
------	------	------

pH of TCLP Fluid #1 and Sample:

Before Tumbling 5.24

After Tumbling 6.27

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/05/96
Lab Director *Willie Savage*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7988
Sample ID #1 (CUST)	Pile #14
Sample ID #2 (CUST)	Composite
Matrix	Soil
Sampled By	Russ Savage
Date Sampled	02/01/96 01:00
Date Received	02/01/96 04:50
Date Analyzed	02/05/96
Date Reported	02/05/96

Results Det Limit*

Lead	1.33	0.05
------	------	------

pH of TCLP Fluid #1 and Sample:

Before Tumbling 5.11

After Tumbling 6.01

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/05/96
Lab Director *W. Savage*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)
Sample ID #1 (CUST)
Sample ID #2 (CUST)
Matrix
Sampled By
Date Sampled
Date Received
Date Analyzed
Date Reported

7989
Pile #15
Composite
Soil
Russ Savage
02/01/96 02:00
02/01/96 04:50
02/05/96
02/05/96

Results Det Limit*

Lead

0.77	0.05
------	------

pH of TCLP Fluid #1 and Sample:

Before Tumbling 5.12

After Tumbling 6.04

EXPRESS

7986



7987



7988



7989

MANILLA
COPY

FAX 1-716-554-4114

ENVIRONMENTAL SOILS TESTS
FIELD LAB #11369

CUSTOMER: NWEC+C
 ADDRESS: _____
 CITY: _____
 STATE/ZIP: _____
 PHONE: _____
 FAX: _____
 CONTACT: _____

PO NUMBER: _____
 PROJECT NO: _____
 PROJECT CUST: _____
 PROJECT SITE: 1746 WALDEN
TREATED SOIL
 SEND RESULTS: ☐ FAX ☐ EXPR MAIL
 PHONE RESULTS: ☐ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTBE

8270 (Stars)

FULL TCLP

LIST ANALYSIS REQUIRED

8021 + MTBE

625

TCLP LESS HERBS & PESTS

503.1

PCB'S

TCLP VOLATILES

TPH GASOLINE

602

TCLP SEMI-VOLATILES

TPH DIESEL

624

8 RCRA METALS (TCLP)

8240

TOX

HERBICIDES

8260 (Stars)

LEAD ONLY

PESTICIDES

8260

REACTIVITY

8 RCRA METALS (DIRECT)

CORROSIVITY

(DIESEL)

FLASH POINT

(GAS OR OIL)

SPECIAL INSTRUCTIONS: Report pH init, final
and on extract init + final

SUSPECT:

DATE TIME SAMPLE DESCRIPTION / LOCATION / MATRIX

2/1/96	1:00	PILE # 12 comp	X						
		PILE # 13 comp	X						
		PILE # 14 comp	X						
		PILE # 15 comp	X						

CHAIN OF CUSTODY RECORD

of SAMPLES 4 # of CONTAINERS 4SAMPLED BY: RJSSIGNATURE: [Signature]

NAME: _____

DATED: 1/1 TIME: _____HOW SENT: ☐ EXP MAIL ☒ HAND CARRY

SIGNATURE 2: _____

NAME 2: _____

DATED 2: 1/1 TIME: _____HOW SENT 2: ☐ EXP MAIL ☐ HAND CARRYSAMPLES RECEIVED BY: EXPRESS LABSIGNATURE: [Signature]NAME: ANN M. WHALEYDATE: 2/1/96 TIME: 4:50HOW RECD: ☐ EXP MAIL ☒ HAND CARRY

FREIGHT IN: \$ _____

LOGGED IN: 2/1/96 TIME: 5:30SAMPLE COND: sealed SAMPLE TEMP: 50°

LAB NOTES: _____

White-Lab, Yellow-
Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

expwo20doc

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/08/96
Lab Director *Willie J. A.*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7999
Sample ID #1 (CUST)	PILE #16
Sample ID #2 (CUST)	Composite
Matrix	Soil
Sampled By	Russell Savage
Date Sampled	02/02/96 03:30
Date Received	02/07/96 11:30
Date Analyzed	02/08/96
Date Reported	02/08/96

Results Det Limit*

Lead	0.62	0.05
------	------	------

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/08/96
Lab Director *Willie Savage*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)
Sample ID #1 (CUST)
Sample ID #2 (CUST)
Matrix
Sampled By
Date Sampled
Date Received
Date Analyzed
Date Reported

8000
PILE #17
Composite
Soil
Russell Savage
02/02/96 03:45
02/07/96 11:30
02/08/96
02/08/96

Results Det Limit*

Lead

0.41	0.05
------	------

8000

MANILLA
COPY

Box 40 5611 Water Street Annapolis, MD 14367

Tel: 1-800-843-5227 FAX 1-716-554-4114

SPECIALIZING IN ENVIRONMENTAL SOILS TESTS
NY STATE CERTIFIED LAB #11369

CUSTOMER: NWEC+L
ADDRESS: _____
CITY: _____
STATE/ZIP: _____
PHONE: _____
FAX: _____
CONTACT: _____

PO NUMBER: _____
PROJECT NO.: 1746 WALDEN
PROJECT CUST.: THREATEN SOIL
PROJECT SITE: _____

SEND RESULTS: ☒ FAX ☐ EXPR MAIL
PHONE RESULTS: ☒ YES ☐ NO

8020 BUTEX - MTIDE
8021 + MTBE
503.1
TPII GASOLINE
TPII DIESEL
824C
8260 (Stars)
8260
8 RCRA METALS (DIRECT)

8270 (Stars)
625
PCB's
602
624
TOX
LEAD ONLY

FULL TCLP
TCLP LESS HERBS & PESTS
TCLP VOLATILES
TCLP SEMI-VOLATILES
& RCRA METALS (TCLP)
HERBICIDES
PESTICIDES
REACTIVITY
CORROSIVITY
FLASH POINT

(DIESEL) ☐
(GAS OR OIL) ☐

SUSPECT:

SPECIAL INSTRUCTIONS: Report

[illegible]

2/2/16	3:30	PILE #16	Comp
2/2/16	3:45	PILE #17	Comp

LIST ANALYSIS REQUIRED

of SAMPLES 2 # of CONTAINERS 2
 SAMPLED BY: RLS
 SIGNATURE: [Signature]
 NAME: CUSSET Balrest
 DATED: 11/11/11 TIME: 7:30 PM
 HOW SENT: ☐ EXP MAIL ☒ HAND CARRY
 SIGNATURE 2: Charles [Signature]
 NAME 2: Charles [Signature]
 DATED 2: 11/11/11 TIME: 7:30 PM
 HOW SENT 2: ☐ EXP MAIL ☐ HAND CARRY

SAMPLES RECEIVED BY: EXP LAIS
SIGNATURE: [Signature]
NAME: ANN M WHALEY
DATE: 2-17-96 TIME: 11:30
HOW REC'D: ☐ EXP MAIL ☒ HAND CARRY
FREIGHT IN: \$ _____
LOGGED IN: 2-17-96 TIME: 12:45
SAMPLE COND. Sealed SAMPLE TEMP.: 35°
LAB NOTES:

White-Lab, Yellow-Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/08/96
Lab Director *William A. W.*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)
Sample ID #1 (CUST)
Sample ID #2 (CUST)
Matrix
Sampled By
Date Sampled
Date Received
Date Analyzed
Date Reported

8001
PILE #18
Composite
Soil
Russell Savage
02/06/96 03:00
02/07/96 11:30
02/08/96
02/08/96

Results Det Limit*

Lead

0.84	0.05
------	------

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/08/96
Lab Director *Will Sg*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)
Sample ID #1 (CUST)
Sample ID #2 (CUST)
Matrix
Sampled By
Date Sampled
Date Received
Date Analyzed
Date Reported

8002
PILE #19
Composite
Soil
Russell Savage
02/06/96 03:00
02/07/96 11:30
02/08/96
02/08/96

Results Det Limit*

Lead

2.01	0.05
------	------

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/08/96
Lab Director *Will Savage*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8003
Sample ID #1 (CUST)	PILE #20
Sample ID #2 (CUST)	Composite
Matrix	Soil
Sampled By	Russell Savage
Date Sampled	02/06/96 03:00
Date Received	02/07/96 11:30
Date Analyzed	02/08/96
Date Reported	02/08/96

Results Det Limit*

Lead

1.17	0.05
------	------

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/08/96
Lab Director *W. L. Savage*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)
Sample ID #1 (CUST)
Sample ID #2 (CUST)
Matrix
Sampled By
Date Sampled
Date Received
Date Analyzed
Date Reported

8004
PILE #21
Composite
Soil
Russell Savage
02/06/96 03:20
02/07/96 11:30
02/08/96
02/08/96

Results Det Limit*

Lead

0.78	0.05
------	------

8001

8002

8003

8004

MANILLA
COPY

iddlesex NY 14507

FAX 1-716-554-4114

WORKORDER NYS

SPECIALIZING IN ENVIRONMENTAL SOILS TESTS
NY STATE CERTIFIED LAB #11369

DW 20

CUSTOMER: NWFLC
ADDRESS: _____
CITY: _____
STATE/ZIP: _____
PHONE: _____
FAX: _____
CONTACT: _____

PO NUMBER: _____
PROJECT NO.: 1746 WALKER
PROJECT CUST.: TRAITED SOIL
PROJECT SITE: _____

SEND RESULTS: ☐ FAX ☐ EXPR MAIL
PHONE RESULTS: ☐ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTDE
8021 + MTBE
503.1
TPII GASOLINE
TPII DIESEL
8240
8260 (Stars)
8260
8 RCRA METALS (DIRECT)

8270 (Stars)
625
PCB's
602
624
TOX
LEAD ONLY

FULL TCLP
TCLP LESS HERBS & PESTS
TCLP VOLATILES
TCLP SEMI-VOLATILES
8 RCRA METALS (TCLP)
HERBICIDES
PESTICIDES
REACTIVITY
CORROSIVITY
FLASH POINT

LIST ANALYSIS REQUIRED

(DIESEL)
(GAS OR OIL)
SUSPECT: _____

SPECIAL INSTRUCTIONS: _____

DATE TIME SAMPLE DESCRIPTION / LOCATION / MATRIX

2/16	3:00	PILL #18 Corns	X						
		PILL #19 Corns	X						
		PILL #20 Corns	X						
2/16	3:30	PILL #21 Corns	X						

CHAIN OF CUSTODY RECORD

of SAMPLES 4 # of CONTAINERS 4
SAMPLED BY: EXP LAL
SIGNATURE: [Signature]
NAME: KUSSE
DATED: 2-17-96 TIME: 12:30
HOW SENT: ☐ EXP MAIL ☒ HAND CARRY
SIGNATURE 2: Charles Say
NAME 2: Charles Say
DATED 2: 1/1 TIME: _____
HOW SENT 2: ☐ EXP MAIL ☐ HAND CARRY

SAMPLES RECEIVED BY: EXP LAL
SIGNATURE: [Signature]
NAME: ANN M. WILKES
DATE: 2-17-96 TIME: 11:30
HOW REC'D.: ☐ EXP MAIL ☒ HAND CARRY
FREIGHT IN: \$ _____
LOGGED IN: 2-17-96 TIME: 12:45
SAMPLE COND: seal SAMPLE TEMP: -5
LAB NOTES: _____



ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER

4493 Walden Avenue

Lancaster, New York 14086

Tel. (716) 685-8080, Fax: (716) 685-0852

February 13, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.213

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on four samples received at the Analytical Services Center on February 07, 1996. Analysis was performed according to the procedures set forth in "Methods for the Chemical Analysis of Water and Wastes", USEPA-600/4-79-020, March 1983.

Under separate cover, you will be receiving an invoice for Job 9600.213.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

Verbal results were forwarded to you on 2/9/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

recycled paper

SENT TO: E+E INC

Company Name
NWEC+C

Project Name / Number
1746 WALDEN
TREATED SOIL

Turn-Around Time

- ☐ - Standard Service
☒ - * Rush Service

Date requested by: FRI 2/9/96

Ph # (716) - 937 6527

Fax # (716) - 937- 9360

Page ____ of ____

PARAMETERS FOR ANALYSIS

Send Report to:

NWEC+C Inc
3553 CRITTENDEN RD
CRITTENDEN, NY 14039

Send Invoice to:

SAME

P.O. #

SAMPLE ID

Date

Time

TYPE

Comp.

Grab

Aqueous

Soil

Other

Chain of Custody Record

Laboratory

ID

Number

PILE # 3 comp 1
PILE # 3 comp 2
PILE # 10 comp 1
PILE # 10 comp 2

2/9/96
3:00
↓
↓

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

X
X
X
X

REMARKS:

RUSH - Please fax results by
FRI PM

Total Containers -

4

SAMPLER'S NAME:

Russ Savage

SIGNATURE:

[Signature]

SAMPLES RELINQUISHED BY:

SAMPLES RECEIVED BY:

NAME: Russell Savage
SIGNATURE: *[Signature]*

DATE: 2/7/96
TIME: 9:00 AM

NAME:
SIGNATURE:

DATE:
TIME:

NAME:
SIGNATURE:

DATE:
TIME:

NAME:
SIGNATURE:

DATE:
TIME:

NAME:

DATE:

Received For Laboratory By

DATE: 2.7.96

Custody Seal Intact? Sample ☐ Yes ☐ No ☐ N.A.
Shipment Complete? ☐ Yes ☐ No

Temp ____ °C TS TB TM

Airbill #

JOB NUMBER : 9600.213

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

-	SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
	-----	-----	-----	-----	-----
TCLP - LEAD		(ICP)-S			
	39258.01	PILE#3 COMP 1	02/06/96	02/09/96	02/09/96
	39259.01	PILE#3 COMP 2	02/06/96	02/09/96	02/09/96
	39260.01	PILE#10 COMP 1	02/06/96	02/09/96	02/09/96
	39261.01	PILE#10 COMP 2	02/06/96	02/09/96	02/09/96

Results of Analysis of TCLP Extracts Job Number :9600.213

ELAP ID : 10486

Ecology and Environment, Inc.

Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39258

MATRIX: SOLID

SAMPLE ID CLIENT: PILE#3 COMP 1

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	27	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.213

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39259

MATRIX: SOLID

SAMPLE ID CLIENT: PILE#3 COMP 2

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	39	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number : 9600.213
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : EE-96-39260
SAMPLE ID CLIENT: PILE#10 COMP 1

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	16	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.213
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39261
SAMPLE ID CLIENT: PILE#10 COMP 2

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	11	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

LABORATORY CONTROL SAMPLE (276)

9600.213

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1060	1000	106

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number : 9600.213

ELAP ID : 10486

Ecology and Environment, Inc.

Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director *Will Savage*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8005
Sample ID #1 (CUST)	PILE #22
Sample ID #2 (CUST)	Composite
Matrix	Soil
Sampled By	Russell Savage
Date Sampled	02/07/96 01:45
Date Received	02/08/96 11:30
Date Analyzed	02/12/96
Date Reported	02/12/96

Results Det Limit*

Lead	0.39	0.05
------	------	------

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director *William Savage*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

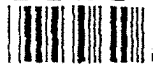
Sample ID (LAB)	8006
Sample ID #1 (CUST)	PILE #23
Sample ID #2 (CUST)	Composite
Matrix	Soil
Sampled By	Russell Savage
Date Sampled	02/07/96 01:45
Date Received	02/08/96 11:30
Date Analyzed	02/12/96
Date Reported	02/12/96

Results Det Limit*

Lead	0.94	0.05
------	------	------

EXPRESS 1D

8005



8006



8007



MANILLA COPY

Veter Street Middlesex NY 14507

800-843-5227 FAX 1-716-554-4114

ZING IN ENVIRONMENTAL SOILS TESTS
NY STATE CERTIFIED LAB #11369

Due 2-9

CUSTOMER: NWEC+C
ADDRESS: _____
CITY: _____
STATE/ZIP: _____
PHONE: _____
FAX: _____
CONTACT: _____

PO NUMBER: _____
PROJECT NO: 1746 WALDEN
PROJECT CUST: TREATED SOIL
PROJECT SITE: _____

SEND RESULTS: ☐ FAX ☐ EXPR MAIL
PHONE RESULTS: ☒ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTBE	8270 (Stars)	FULL TCLP
8021 + MTBE	625	TCLP LESS HERBS & PESTS
503.1	PCB'S	TCLP VOLATILES
TPH GASOLINE	602	TCLP SEMI-VOLATILES
TPH DIESEL	624	8 RCRA METALS (TCLP)
8240	TOX	HERBICIDES
8260 (Stars)	LEAD ONLY	PESTICIDES
8260		REACTIVITY
8 RCRA METALS (DIRECT)		CORROSIVITY
		FLASH POINT

LIST ANALYSIS REQUIRED

TCLP Pb									

(DIESEL)
(GAS OR OIL)
SUSPECT: _____

SPECIAL INSTRUCTIONS: _____

DATE TIME SAMPLE DESCRIPTION / LOCATION / MATRIX

2/7/96	1:45	Pile 22	Comp						
↓	↓	Pile 23	"						
↓	↓	Pile 24	"						

CHAIN OF CUSTODY RECORD

of SAMPLES 3 # of CONTAINERS 3
SAMPLED BY: RTS
SIGNATURE: [Signature]
NAME: Russ Savage
DATED: 1/1 TIME: 11:30
HOW SENT: ☐ EXP MAIL ☐ HAND CARRY
SIGNATURE 2: _____
NAME 2: _____
DATED 2: 1/1 TIME: 11:30
HOW SENT 2: ☐ EXP MAIL ☐ HAND CARRY

SAMPLES RECEIVED BY: EXP. LAB
SIGNATURE: [Signature]
NAME: ANN M. WARD
DATE: 2/8/96 TIME: 11:30
HOW RECD: ☐ EXP MAIL ☒ HAND CARRY
FREIGHT IN: \$ _____
LOGGED IN: 2/8/96 TIME: 11:56
SAMPLE COND: Sealed SAMPLE TEMP: 50°
LAB NOTES: _____

White-Lab, Yellow-
Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

expwo20duc

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director *Willie Savage*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP: AA/Cold Vapor

Sample ID (LAB)	8014
Sample ID #1 (CUST)	PILE #25
Sample ID #2 (CUST)	Composite
Matrix	SOIL
Sampled By	Russell Savage
Date Sampled	02/08/96 01:30
Date Received	02/08/96 06:00
Date Analyzed	02/12/96
Date Reported	02/12/96

Results Det Limit*

Lead	0.20	0.05
------	------	------

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director *William Savage*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8015
Sample ID #1 (CUST)	PILE #26
Sample ID #2 (CUST)	Composite
Matrix	SOIL
Sampled By	Russell Savage
Date Sampled	02/08/96 01:30
Date Received	02/08/96 06:00
Date Analyzed	02/12/96
Date Reported	02/12/96

Results Det Limit*

Lead	2.44	0.05
------	------	------

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director *Willie S. a*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

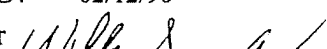
Sample ID (LAB)	8016
Sample ID #1 (CUST)	PILE #26 DUP
Sample ID #2 (CUST)	Composite
Matrix	SOIL
Sampled By	Russell Savage
Date Sampled	02/08/96 01:30
Date Received	02/08/96 06:00
Date Analyzed	02/12/96
Date Reported	02/12/96

Results Det Limit*

Lead	1.84	0.05
------	------	------

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director 

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8017
Sample ID #1 (CUST)	PILE #27
Sample ID #2 (CUST)	Composite
Matrix	SOIL
Sampled By	Russell Savage
Date Sampled	02/08/96 01:30
Date Received	02/08/96 06:00
Date Analyzed	02/12/96
Date Reported	02/12/96

Results Det Limit*

Lead	0.59	0.05
------	------	------

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director *[Signature]*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8018
Sample ID #1 (CUST)	PILE #28
Sample ID #2 (CUST)	Composite
Matrix	SOIL
Sampled By	Russell Savage
Date Sampled	02/08/96 02:00
Date Received	02/08/96 06:00
Date Analyzed	02/12/96
Date Reported	02/12/96

Results Det Limit*

Lead	0.43	0.05
------	------	------

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE
Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director *William S. A.*

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8019
Sample ID #1 (CUST)	Excavation 10
Sample ID #2 (CUST)	STOCKPILED SOIL
Matrix	SOIL
Sampled By	Russell Savage
Date Sampled	02/08/96 02:30
Date Received	02/08/96 06:00
Date Analyzed	02/12/96
Date Reported	02/12/96

Results Det Limit*

Lead	0.87	0.05
------	------	------

8014



8015



8016



8017



8018



8019

MANILLA
COPY

WORKORDER NYS

 ENVIRONMENTAL SOILS TESTS
 NY STATE CERTIFIED LAB #11369

 CUSTOMER: NWEC-C
 ADDRESS: _____
 CITY: _____
 STATE/ZIP: _____
 PHONE: _____
 FAX: _____
 CONTACT: _____

 PO NUMBER: 17416 WALKER
 PROJECT NO: 17416 SOIL
 PROJECT CUST: _____
 PROJECT SITE: _____

 SEND RESULTS: ☐ FAX ☐ EXPR MAIL
 PHONE RESULTS: ☒ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

 8020 BTEX + MTBE
 8021 + MTBE
 803.1
 TPH GASOLINE
 TPH DIESEL
 8240
 8260 (Stars)
 8260
 8 RCRA METALS (DIRECT)

 8270 (Stars)
 625
 PCB'S
 602
 624
 TOX
 LEAD ONLY

 FULL TCLP
 TCLP LESS HERBS & PESTS
 TCLP VOLATILES
 TCLP SEMI-VOLATILES
 8 RCRA METALS (TCLP)
 HERBICIDES
 PESTICIDES
 REACTIVITY
 CORROSIVITY
 FLASH POINT

 (DIESEL)
 (GAS OR OIL)
 SUSPECT: _____

LIST ANALYSIS REQUIRED

SPECIAL INSTRUCTIONS: _____

DATE TIME SAMPLE DESCRIPTION / LOCATION / MATRIX

4/8/96	1:30	File #25 Comp	x						
		File #26 Comp	x						
		File #26 Comp duplicate	x						
		File #27 Comp	x						
	2:00	File #28 Comp	x						
4/8/96	2:30	EXCAVATION 10 Stockpiled soil	x						

CHAIN OF CUSTODY RECORD

 # of SAMPLES 5 # of CONTAINERS 5
 SAMPLED BY: BOSS
 SIGNATURE: [Signature]
 NAME: Michael J. Savage
 DATED: 21 8/96 TIME: 2:30
 HOW SENT: ☐ EXP MAIL ☒ HAND CARRY
 SIGNATURE 2: _____
 NAME 2: _____
 DATED 2: 1/1 TIME: _____
 HOW SENT 2: ☐ EXP MAIL ☐ HAND CARRY

 SAMPLES RECEIVED BY: EXP LAB
 SIGNATURE: [Signature]
 NAME: Ann M. Whaley
 DATE: 21 8/96 TIME: 6:00pm
 HOW RECD: ☐ EXP MAIL ☒ HAND CARRY
 FREIGHT IN: \$ _____
 LOGGED IN: 21 8/96 TIME: 8:00
 SAMPLE COND: _____ SAMPLE TEMP: 40
 LAB NOTES: _____

 White-Lab, Yellow-
 Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

expwa20doc



A FULL SERVICE ENVIRONMENTAL LABORATORY

February 20, 1996

Mr. Russ Savage
Nature's Way EC&C, Inc.
3553 Crittenden Road
Crittenden, NY 14038

PROJECT:1746 WALDEN AVE.
Submission #:9602000136

Dear Mr. Savage:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 02/14/96 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

A handwritten signature in cursive script, appearing to read "Janice Jaeger".

Janice Jaeger
Project Chemist

Enc.

This package has been reviewed by General Testing Corporation's QA Department/Laboratory Director prior to report submittal. A handwritten signature in cursive script, appearing to read "Michael K. Perry".

710 Exchange Street • Rochester, NY 14608 • Tele:(716)454-3760 • Fax:(716)454-1245
85 Trinity Place • Hackensack, NJ 07601 • Tele:(201)488-5242 • Fax:(201)488-6386
435 Lawrence Bell Drive • Amherst, NY 14421 • Tele:(716)634-0454 • Fax:(716)634-9019



A Full Service Environmental Laboratory

Effective 10/30/95

GTC 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.

GTC Lab ID # for State Certifications

NY ID # in Rochester: 10145
NY ID # in Hackensack: 10801
NY ID # in Massachusetts: M-NY032

NJ ID # in Rochester: 73331
NJ ID # in Hackensack: 02317



1-800-695-7222

Tel: (716) 454-3760 FAX: (716) 454-1245
710 Exchange St. Rochester, N.Y. 14608

Tel: (716) 634-0454 FAX: (716) 634-9019
435 Lawrence Bell Dr. Amherst, N.Y. 14221

Submission #: 9602000136

LABORATORY REPORT- TCLP METALS

Client Name: Nature's Way EC&C, Inc.
Address: 3553 Crittenden Road
Crittenden, NY 14038
Phone: 716/937-6527
FAX: 716/937-9360
Attention: Mr. Russ Savage

PO Number:
Project Site: 1746 WALDEN AVE.
Date faxed : 02/14/96
Lab Director: Michael K. Perry

SAMPLE INFORMATION AND TEST RESULTS

Sample ID: 63967
Client ID PILE #23
Matrix: SOIL/SEDIMENT
Date Sampled: 02/12/96
Date Received: 02/13/96
Date Analyzed: 02/14/96
Date Reported: 02/20/96

	Result	Det. Limit	Units
LEAD	2.89	0.100	MG/L (PPM)

Data reported following TCLP Toxicity Characteristics Leaching Procedure. Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

GTC Lab ID# for State Certifications:
NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801
NJ ID# in Rochester: 73331 NY ID# in Hackensack: 02317
NY ID# in Massachusetts: M-NY032

METALS-1



1-800-695-7222

Tel: (716) 454-3760 FAX: (716) 454-1245
710 Exchange St. Rochester, N.Y. 14608

Tel: (716) 634-0454 FAX: (716) 634-9019
435 Lawrence Bell Dr. Amherst, N.Y. 14221

Submission #: 9602000136

LABORATORY REPORT- TCLP METALS

Client Name: Nature's Way EC&C, Inc.
Address: 3553 Crittenden Road
Crittenden, NY 14038
Phone: 716/937-6527
FAX: 716/937-9360
Attention: Mr. Russ Savage

PO Number:
Project Site: 1746 WALDEN AVE.
Date faxed : 02/14/96
Lab Director: Michael K. Perry

SAMPLE INFORMATION AND TEST RESULTS

Sample ID: 63968
Client ID: PILE #25
Matrix: SOIL/SEDIMENT
Date Sampled: 02/08/96
Date Received: 02/13/96
Date Analyzed: 02/14/96
Date Reported: 02/20/96

	Result	Det. Limit	Units
LEAD	0.705	0.100	MG/L (PPM)

Data reported following TCLP Toxicity Characteristics Leaching Procedure. Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

GTC Lab ID# for State Certifications:

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NY ID# in Hackensack: 02317

NY ID# in Massachusetts: M-NY032

METALS-1



1-800-695-7222

Tel: (716) 454-3760 FAX: (716) 454-1245
710 Exchange St. Rochester, N.Y. 14608

Tel: (716) 634-0454 FAX: (716) 634-9019
435 Lawrence Bell Dr. Amherst, N.Y. 14221

Submission #: 9602000136

LABORATORY REPORT- TCLP METALS

Client Name: Nature's Way EC&C, Inc.
Address: 3553 Crittenden Road
Crittenden, NY 14038
Phone: 716/937-6527
FAX: 716/937-9360
Attention: Mr. Russ Savage

PO Number:
Project Site: 1746 WALDEN AVE.
Date faxed : 02/14/96
Lab Director: Michael K. Perry

SAMPLE INFORMATION AND TEST RESULTS

Sample ID: 63969
Client ID PILE #26
Matrix: SOIL/SEDIMENT
Date Sampled: 02/08/96
Date Received: 02/13/96
Date Analyzed: 02/14/96
Date Reported: 02/20/96

LEAD

Result	Det. Limit	Units
9.39	0.100	MG/L (PPM)

Data reported following TCLP Toxicity Characteristics Leaching Procedure. Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

GTC Lab ID# for State Certifications:

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NY ID# in Hackensack: 02317

NY ID# in Massachusetts: M-NY032

METALS-1



1-800-695-7222

Tel: (716) 454-3760 FAX: (716) 454-1245
710 Exchange St. Rochester, N.Y. 14608

Tel: (716) 634-0454 FAX: (716) 634-9019
435 Lawrence Bell Dr. Amherst, N.Y. 14221

Submission #: 9602000136

LABORATORY REPORT- TCLP METALS

Client Name: Nature's Way EC&C, Inc.
Address: 3553 Crittenden Road
Crittenden, NY 14038
Phone: 716/937-6527
FAX: 716/937-9360
Attention: Mr. Russ Savage

PO Number:
Project Site: 1746 WALDEN AVE.
Date faxed : 02/14/96
Lab Director: Michael K. Perry

SAMPLE INFORMATION AND TEST RESULTS

Sample ID: 63970
Client ID: PILE #27
Matrix: SOIL/SEDIMENT
Date Sampled: 02/08/96
Date Received: 02/13/96
Date Analyzed: 02/14/96
Date Reported: 02/20/96

	Result	Det. Limit	Units
LEAD	1.08	0.100	MG/L (PPM)

Data reported following TCLP Toxicity Characteristics Leaching Procedure. Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

GTC Lab ID# for State Certifications:
NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801
NJ ID# in Rochester: 73331 NY ID# in Hackensack: 02317
NY ID# in Massachusetts: M-NY032

METALS-1



1-800-695-7222

Tel: (716) 454-3760 FAX: (716) 454-1245
710 Exchange St. Rochester, N.Y. 14608

Tel: (716) 634-0454 FAX: (716) 634-9019
435 Lawrence Bell Dr. Amherst, N.Y. 14221

Submission #: 9602000136

LABORATORY REPORT- TCLP METALS

Client Name: Nature's Way EC&C, Inc.
Address: 3553 Crittenden Road
Crittenden, NY 14038
Phone: 716/937-6527
FAX: 716/937-9360
Attention: Mr. Russ Savage

PO Number:
Project Site: 1746 WALDEN AVE.
Date faxed : 02/14/96
Lab Director: Michael K. Perry

SAMPLE INFORMATION AND TEST RESULTS

Sample ID: 63971
Client ID PILE #28
Matrix: SOIL/SEDIMENT
Date Sampled: 02/08/96
Date Received: 02/13/96
Date Analyzed: 02/14/96
Date Reported: 02/20/96

	Result	Det. Limit	Units
LEAD	0.639	0.100	MG/L (PPM)

Data reported following TCLP Toxicity Characteristics Leaching Procedure. Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

GTC Lab ID# for State Certifications:

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NY ID# in Hackensack: 02317

NY ID# in Massachusetts: M-NY032

METALS-1

(716) 454-3760 • FAX (716) 454-1245

(800) 695-7222

DATE 2/12/96 PAGE 1 OF 1

[illegible]



ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER

4493 Walden Avenue

Lancaster, New York 14086

Tel. (716) 685-8080, Fax: (716) 685-0852

February 19, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.255

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on five samples received at the Analytical Services Center on February 13, 1996. Analysis was performed according to the procedures set forth in "Methods for the Chemical Analysis of Water and Wastes", USEPA-600/4-79-020, March 1983.

Under separate cover, you will be receiving an invoice for Job 9600.255.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 02/15/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure



International Specialists in the Environment

Page 1 of 1

Distribution: Original Accompanies Shipment: Copy to Coordinator Field Files

* See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9600.255

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

-	SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
	-----	-----	-----	-----	-----
	TCLP - LEAD	(ICP) -S			
	39547.01	PILE #24	02/12/96	02/14/96	02/14/96
	39548.01	PILE #29	02/12/96	02/14/96	02/14/96
	39549.01	PILE #30	02/12/96	02/14/96	02/14/96
	39550.01	PILE #31	02/12/96	02/14/96	02/14/96
	39551.01	PILE #32	02/12/96	02/14/96	02/14/96

Results of Analysis of TCLP Extracts Job Number :9600.255

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39547

MATRIX: SOLID

SAMPLE ID CLIENT: PILE #24

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	6.1	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number : 9600.255
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : EE-96-39548
SAMPLE ID CLIENT: PILE #29

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	7.7	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number : 9600.255
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB : EE-96-39549

MATRIX: SOLID

SAMPLE ID CLIENT: PILE #30

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.8	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.255

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39550

MATRIX: SOLID

SAMPLE ID CLIENT: PILE #31

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	11	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.255

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39551

MATRIX: SOLID

SAMPLE ID CLIENT: PILE #32

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	4.2	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED TCLP SOLID SAMPLES

9600.255

(mg/L)					
<hr/>					
Parameter	E & E Laboratory No. 96- 39549	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
<hr/>					
Lead		1.8	6.8	5.0	100
<hr/>					

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9600.255
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
-----	-----	-	-----	-----
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE



ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER

4493 Walden Avenue
Lancaster, New York 14086
Tel. (716) 685-8080, Fax: (716) 685-0852

February 23, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.307

Dear Mr. Savage:

Attached is the laboratory report of the reanalysis conducted on two samples received at the Analytical Services Center on February 13, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

Under separate cover, you will be receiving an invoice for Job 9600.307.

A facsimile of draft results was sent to you on 02/21/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

JOB NUMBER : 9600.307

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

-	SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
	-----	-----	-----	-----	-----
	TCLP - LEAD	(ICP) -S			
	39865.01	PILE #24	02/12/96	02/21/96	02/21/96
	39866.01	PILE #29	02/12/96	02/21/96	02/21/96

Results of Analysis of TCLP Extracts Job Number :9600.307

ELAP ID : 10486

Ecology and Environment, Inc.

Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39865

MATRIX: SOLID

SAMPLE ID CLIENT: PILE #24

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.2	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.307
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39866

MATRIX: SOLID

SAMPLE ID CLIENT: PILE #29

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.2	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

LABORATORY CONTROL SAMPLE (310)

9600.307

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1060	1000	106

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number : 9600.307
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE



ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER

4493 Walden Avenue

Lancaster, New York 14086

Tel. (716) 685-8080, Fax: (716) 685-0852

February 19, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.263

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on two samples received at the Analytical Services Center on February 13, 1996. Analysis was performed according to the procedures set forth in "Methods for the Chemical Analysis of Water and Wastes", USEPA-600/4-79-020, March 1983.

Under separate cover, you will be receiving an invoice for Job 9600.263.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 02/15/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

JOB NUMBER : 9600.263

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	CLIENT				
-	SAMPLE	SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
	-----	-----	-----	-----	-----
TCLP - LEAD		(ICP) -S			
	39579.01	PILE #33	02/13/96	02/14/96	02/15/96
	39580.01	PILE #34	02/13/96	02/14/96	02/15/96

Results of Analysis of TCLP Extracts Job Number :9600.263
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39579

MATRIX: SOLID

SAMPLE ID CLIENT: PILE #33

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.37	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number : 9600.253
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB : EE-96-39580

MATRIX: SOLID

SAMPLE ID CLIENT: PILE #34

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.76	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF TCLP SOLID SAMPLES

9600.263

(mg/L)				
<hr/>				
Parameter	E & E Laboratory No. 96- 39579	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
<hr/>				
Lead		0.371	0.367	1.1
<hr/>				

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED TCLP SOLID SAMPLES

9600.263

(mg/L)					
<hr/>					
Parameter	E & E Laboratory No. 96- 39579	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
<hr/>					
Lead		0.371	5.42	5.0	101
<hr/>					

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (295)

9600.263

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1070	1000	107

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9600.263
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
-----	-----	-	-----	-----
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE



ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER

4493 Walden Avenue

Lancaster, New York 14086

Tel. (716) 685-8080, Fax: (716) 685-0852

February 21, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.290

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on two samples received at the Analytical Services Center on February 15, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

Under separate cover, you will be receiving an invoice for Job 9600.290.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 02/20/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure



CHAIN-OF-CUSTODY RECORD

Page _____ of _____

*See CONCENTRATION RANGE on back of form.

JOB NUMBER : 9600.290

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	SAMPLE	CLIENT SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
	-----	-----	-----	-----	-----
TCLP - LEAD		(ICP) -S			
	39757.01	PILE #35	02/14/96	02/20/96	02/20/96
	39758.01	PILE #36	02/14/96	02/20/96	02/20/96

Results of Analysis of TCLP Extracts Job Number :9600.290

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39757

MATRIX: SOLID

SAMPLE ID CLIENT: PILE #35

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED TCLP SOLID SAMPLES

9600.290

(mg/L)					
<hr/>					
Parameter	E & E Laboratory No. 96- 39757	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
<hr/>					
Lead		ND	4.84	5.0	96.8
<hr/>					

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (309)

9600.290

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1110	1000	111

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9600.290
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE



ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER

4493 Walden Avenue

Lancaster, New York 14086

Tel. (716) 685-8080, Fax: (716) 685-0852

February 21, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.298

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on two samples received at the Analytical Services Center on February 16, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

Under separate cover, you will be receiving an invoice for Job 9600.298.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 02/20/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure



4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685-8080, Fax 716/685-0852

International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Distribution: Original Accompanies Supplement. Copy to Coordinator Field Files

* See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9600.298

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	CLIENT				
-	SAMPLE	SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
	-----	-----	-----	-----	-----
TCLP - LEAD		(ICP) -S			
	39812.01	PILE #37	02/16/96	02/20/96	02/20/96
	39813.01	PILE #38	02/16/96	02/20/96	02/20/96

Results of Analysis of TCLP Extracts Job Number :9600.298

ELAP ID : 10486

Ecology and Environment, Inc.

Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39812

MATRIX: SOLID

SAMPLE ID CLIENT: PILE #37

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.298
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39813
SAMPLE ID CLIENT: PILE #38

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
-----	-----	-	-----	-----
Lead	0.19		0.15	5.0

QUALIFIERS: C = COMMENT
J = ESTIMATED VALUE

ND = NOT DETECTED

LABORATORY CONTROL SAMPLE (309)

9600.298

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1110	1000	111

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number : 9600.298

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
-----	-----	-	-----	-----
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE



ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER

4493 Walden Avenue

Lancaster, New York 14086

Tel. (716) 685-8080, Fax: (716) 685-0852

March 01, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.319

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on four samples received at the Analytical Services Center on February 20, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

Under separate cover, you will be receiving an invoice for Job 9600.319.

A facsimile of draft results was sent to you on 02/22/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

Results of Analysis of TCLP Extracts Job Number :9600.319
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39918

MATRIX: SOLID

SAMPLE ID CLIENT: PILE #40

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.30	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.319
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39917
SAMPLE ID CLIENT: PILE #39

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number : 9600.319
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB : EE-96-39918

MATRIX: SOLID

SAMPLE ID CLIENT: PILE #40

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.30	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.319

ELAP ID : 10486

Ecology and Environment, Inc.

Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39919

MATRIX: SOLID

SAMPLE ID CLIENT: PILE #41

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.23	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number : 9600.319
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : EE-96-39920
SAMPLE ID CLIENT: PILE #31

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.85	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF TCLP SOLID SAMPLES

9600.319

(mg/L)				
<hr/>				
Parameter	E & E Laboratory No. 96- 39918	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
<hr/>				
Lead		0.304	0.305	0.3
<hr/>				

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED TCLP SOLID SAMPLES

9600.319

(mg/L)

Parameter	E & E Laboratory No. 96- 39918	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		0.304	4.90	5.0	92.0

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number : 9600.319
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

LABORATORY CONTROL SAMPLE (320)

9600.319

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1090	1000	109

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

JOB NUMBER : 9600.319

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	CLIENT				
-	SAMPLE	SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
	-----	-----	-----	-----	-----
TCLP - LEAD		(ICP) -S			
	39917.01	PILE #39	02/20/96	02/22/96	02/22/96
	39918.01	PILE #40	02/20/96	02/22/96	02/22/96
	39919.01	PILE #41	02/20/96	02/22/96	02/22/96
	39920.01	PILE #31	02/20/96	02/22/96	02/22/96

Ecology and environment, inc.

Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.:		Project Name: 1746 WALDEN AVE				Project Manager: Russ Savage - Nature's Way		<div style="text-align: center;">REMARKS</div> <div style="text-align: center;">★ 48 Hour Rush T/A fax to 931-9360</div>												
Sampler: (Signatures) Greg Weber (Greg Weber NWECC+)						Field Team Leader:														
STATION NUMBER	DATE	TIME	COMP	SAMPLE TYPE		EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TCLP	Pb										
				GRAV	AIR															
	2/20/96	1:45	X				Pile #39 (Reprocessed)	1	X											
	2/20/96	1:55	X				Pile #40 (Reprocessed)	1	X											
	2/20/96	2:05	X				Pile #41 (Reprocessed)	1	X											
	2/20/96	2:15	X				Pile #31-RESAMPLE	1	X											
Relinquished By: (Signature) _____ Date/Time: _____ Received By: (Signature) _____ Relinquished By: (Signature) _____ Date/Time: _____ Received By: (Signature) _____ Ship Via _____																				
Relinquished By: (Signature) _____ Date/Time: _____ Received By: (Signature) _____ Relinquished By: (Signature) _____ Date/Time: _____ Received By: (Signature) _____																				
Relinquished By: (Signature) Greg Weber Date/Time: 2/20/96 15:30 Received For Laboratory By: (Signature) _____ Relinquished By: (Signature) _____ Date/Time: _____ Received For Laboratory By: (Signature) _____																				
Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files																	BL/Airbill Number _____		Date _____	

*See CONCENTRATION RANGE on back of form.



ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER

4493 Warden Avenue
Lancaster, New York 14086
Tel. (716) 685-8080, Fax: (716) 685-0852

February 26, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.329

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on one sample received at the Analytical Services Center on February 22, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

Under separate cover, you will be receiving an invoice for Job 9600.329.

A facsimile of draft results was sent to you on 02/26/96.

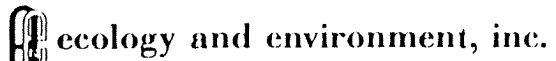
The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to this sample are limited solely to the laboratory analysis of the sample presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

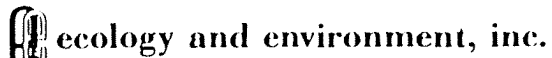


International Specialists in the Environment

Page ____ of ____

~~Distribution~~ Original Accompanies Shipment; Copy to Coordinator Field Files

0571194



Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page _____ of _____

[illegible]

Distribution Original Accompanies Shipment; Copy to Coordinator Field Files

* See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9600.329

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	CLIENT				
-	SAMPLE	SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
	-----	-----	-----	-----	-----
TCLP - LEAD		(ICP) -S			
39971.01	PILE #42		02/22/96	02/23/96	02/24/96

Results of Analysis of TCLP Extracts Job Number :9600.329

ELAP ID : 10486

Ecology and Environment, Inc.

Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39971

MATRIX: SOLID

SAMPLE ID CLIENT: PILE #42

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	2.4	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED TCLP SOLID SAMPLES

9600.329

(mg/L)

Parameter	E & E Laboratory No. 96- 39971	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		2.39	6.89	5.0	90.0

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (324)

9600.329

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1130	1000	113

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9600.329

ELAP ID : 10486

Ecology and Environment, Inc.

Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :METHOD BLANK

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE



ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER

4493 Walden Avenue
Lancaster, New York 14086
Tel. (716) 685-8080, Fax: (716) 685-0852

February 23, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.306

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on two samples received at the Analytical Services Center on February 19, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

Under separate cover, you will be receiving an invoice for Job 9600.306.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 02/21/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

9600.306



4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852

International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 10 of 10

Distribution: Original Accompanies Shipment, Copy to Coordinator's File

* See CONCENTRATION RANGE on back of form

0571194

JOB NUMBER : 9600.306

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

	CLIENT				
-	SAMPLE	SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
	-----	-----	-----	-----	-----
TCLP - LEAD		(ICP) -S			
39863.01	TREATED SOIL	PILE# 1	02/19/96	02/21/96	02/21/96
39864.01	TREATED SOIL	PILE# 2	02/19/96	02/21/96	02/21/96

Results of Analysis of TCLP Extracts Job Number :9600.306

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND	-	0.15	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE