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 1998

Volume 2 of 3

APPENDIX G

ERNST STEEL CONFIRMATION SAMPLING ANALYTICAL AND QUALITY CONTROL RESULTS

ecology and environment, inc. QUALITY ASSURANCE PROTOCOL REVIEW

Client:	r Oteel	
Laboratory Data Review	Supervisor	Date 9 / 1 / 2 / 2 C
Metals)	VAN	8//9/95
Gen. Chem.		
GC		
SC/MS		
Micro, Asbestos		
Other		
	Signature	Date
Report Written by:		5/18/45
at Draft Reviewed by:	X	8/18/9
LIRCUIATED:		8118
2nd Draft Reviewed by: (If needs	ed)	
Final Review by Author:	KR	×/2:1
ASC Manager:	FGME	H 121/95
	0	
Corp. Project Manager: (Internal Job)	2BPECK DA	9/14/95
All QA Protocol Review Forms Signed and in File (to be signed by report write:	r) <i>(</i>)	
Copies of Report Sent to:	LARBYTCK DE	5/9.
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MEMORANDUM

TO:

Barb Peck

FROM:

Gary 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

ecology and environment, inc.

Analytical Services Center

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

CHAIN-OF-CUSTODY RECORD

Project No.	: 50	Project En	Name:	τ -	Ś٢	cer merel		Project Manager B.PEC Field Team Lew	.K							(A)		· · · · · · · · · · · · · · · · · · ·	
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JOB NUMBER : 9501.858

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

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CLIENT			
SAMPLE	DATE	DATE	DATE
ID	SAMPLED	EXTRACTED	ANALYZED
(ICP) -	5		
E2-PN	08/15/95	08/16/95	08/17/95
E2-PE	08/15/95	08/16/95	08/17/95
E2-PS	08/15/95	08/16/95	08/17/95
S-150,325	08/15/95	08/16/95	08/17/95
S-150,350	08/15/95	08/16/95	08/17/95
S-175,325	08/15/95	08/16/95	08/17/95
S-175,350	08/15/95	08/16/95	08/17/95
S-175,375	08/15/95	08/16/95	08/17/95
L (MET) -	3		
E2-PN	08/15/95		08/17/95
E2-PE	08/15/95		08/17/95
E2-PS	08/15/95		08/17/95
S-150,325	08/15/95		08/17/95
S-150,350	08/15/95		08/17/95
S-175,325	08/15/95		08/17/95
S-175,350	08/15/95		08/17/95
S-175,375	08/15/95		08/17/95
	SAMPLE ID (ICP) - S E2-PN E2-PE E2-PS S-150,325 S-175,350 S-175,375 SL (MET) - S E2-PN E2-PE E2-PS S-150,325 S-150,325 S-175,375 SL (MET) - S E2-PN E2-PE E2-PS S-150,325 S-175,350	SAMPLE DATE ID SAMPLED (ICP)-S E2-PN 08/15/95 E2-PS 08/15/95 S-150,325 08/15/95 S-175,325 08/15/95 S-175,375 08/15/95 S-175,375 08/15/95 L (MET) -S E2-PN 08/15/95 E2-PE 08/15/95 E2-PE 08/15/95 S-150,325 08/15/95 S-150,325 08/15/95 S-150,325 08/15/95 S-175,325 08/15/95 S-175,325 08/15/95 S-175,325 08/15/95 S-175,325 08/15/95	SAMPLE DATE DATE ID SAMPLED EXTRACTED (ICP)-S E2-PN 08/15/95 08/16/95 E2-PS 08/15/95 08/16/95 S-150,325 08/15/95 08/16/95 S-175,325 08/15/95 08/16/95 S-175,375 08/15/95 08/16/95 L (MET) -S E2-PN 08/15/95 E2-PE 08/15/95 E2-PE 08/15/95 E2-PE 08/15/95 S-150,325 08/15/95 S-150,325 08/15/95 S-150,325 08/15/95 S-150,325 08/15/95 S-150,325 08/15/95 S-175,325 08/15/95 S-175,325 08/15/95 S-175,325 08/15/95 S-175,325 08/15/95 S-175,325 08/15/95

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 : %

QUALIFIERS: C = COMMENT

J = ESTIMATED VALUE

PARAMETER : Solids Total

ONITY COLLEGE TOTAL (THE CONTEST OF THE CONTEST OF

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	

ND = NOT DETECTED

JOB NUMBER :9501.858

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 87 %

RESULTS IN DRY WEIGHT
SAMPLE ID LAB : EE-95-31422 MATRIX: SOLID

SAMPLE ID CLIENT: E2-PN

RESULTS Q QNT. LIMIT UNITS PARAMETER

5.7 MG/KG 6600 Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

%SOLIDS : 95 %

MATRIX: SOLID

SAMPLE ID CLIENT: E2-PE

PARAMETER

RESULTS Red---

Q QNT. LIMIT UNITS

Lead

1800

- ----------5.3 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

J = ESTIMATED VALUE

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

%SOLIDS : 90 %

SAMPLE ID CLIENT: E2-PS

PARAMETER

RESULTS Q QNT. LIMIT UNITS

Lead

1200

5.6 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

JOB NUMBER :9501.858

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT

: SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

PARAMETER

%SOLIDS : 81 %

SAMPLE ID LAB : EE-95-31425

MATRIX: SOLID

SAMPLE ID CLIENT: S-150,325

RESULTS Q QNT. LIMIT UNITS

_____ Lead

21

6.2 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

JOB NUMBER :9501.858

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT

: SD-6000 ERNST STEEL

PARAMETER

%SOLIDS : 89 %

RESULTS IN DRY WEIGHT SAMPLE ID LAB : EE-95-31427

MATRIX: SOLID

SAMPLE ID CLIENT: S-175,325

RESULTS Q QNT. LIMIT UNITS - ------

Lead

-----170

5.6 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

METALS SECTION JOB NUMBER :9501.858

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 81 %

SAMPLE ID CLIENT: S-150,350

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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

J = ESTIMATED VALUE QUALIFIERS: C = COMMENT

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

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ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY	
Lead	976	1000	97.6	

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

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.: 4501,868	Da	te: 8189
Report Title: Client: FRNST	TEEL	
Laboratory Data Review Supe	rvisor	Date 7/10/95
Metals		8/19/7>
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		
	Signature	Date
Report Written by:	TK	8/18/92
1st Draft Reviewed by:	1/K	8/18/5
2nd Draft Reviewed by: (If needed)		A STATE OF THE STA
Final Review by Author:	W2	1/2.19
ASC Manager:	125 - GA	8/2/95
QA Officer:		<i>,</i>
Corp. Project Manager: DALECEC (Internal Job)	CK DIT MED	
All QA Protocol Review Forms 'Signed and in File (to be, signed by report writer)	2	
1 Copies of Report Sent to: PALB	PECK 201	- 1-1-1-
Invoices Sent to Accounting		17. P.B.
		·

MEMORANDUM

TO:

FROM:

Gary Hahn Lary Haly 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.

*See CONCHNITRATION RANGE on back of form.

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

31467 -31479

CHAIN-OF-CUSTODY RECORD

							**************************************			·								
Project No	.: 	Project	:Name	DS	En	NICT	STEEL		Project Manager							/		
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JOB NUMBER : 9501.868

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

		CLIENT				
-	SAMPLE	SAMPLE		DATE	DATE	DATE
	NUMBER	ID		SAMPLED	EXTRACTED	ANALYZED
LEA	AD	(IC	P) -S			
:	31467.01	E2-BE		08/15/95	08/17/95	08/17/95
:	31468.01	S-225/325		08/16/95	08/17/95	08/17/95
1	31469.01	S-200/375	P	08/16/95	08/17/95	08/17/95
3	31470.01	S-200/325		08/16/95	08/17/95	08/17/95
3	31471.01	S-200/350		08/16/95	08/17/95	08/17/95
5	31472.01	S-150/300		08/16/95	08/17/95	08/17/95
3	31473.01	S-250/325	P	08/16/95	08/17/95	08/17/95
3	31474.01	S-150/275		08/16/95	08/17/95	08/17/95
3	31475.01	S-175/300		08/16/95	08/17/95	08/17/95
3	31476.01	S-125/275	P	08/16/95	08/17/95	08/17/95
3	31477.01	S-200/300		08/16/95	08/17/95	08/17/95
3	31478.01	S-175/275		08/16/95	08/17/95	08/17/95
3	31479.01	S-125/300	P	08/16/95	08/17/95	08/17/95
SOI	LIDS-TOTA	L (MET)	-S			
3	31467.01	E2-BE		08/15/95		08/17/95
3	31468.01	S-225/325		08/16/95		08/17/95
3	31469.01	S-200/375	P	08/16/95		08/17/95
3	1470.01	S-200/325	,	08/16/95		08/17/95
3	31471.01	S-200/350		08/16/95		08/17/95
3	31472.01	S-150/300		08/16/95		08/17/95
3	31473.01	S-250/325	P	08/16/95		08/17/95
3	1474.01	S-150/275		08/16/95		08/17/95
3	1475.01	S-175/300		08/16/95		08/17/95
3	1476.01	S-125/275	P	08/16/95		08/17/95
3	1477.01	S-200/300		08/16/95		08/17/95
3	1478.01	S-175/275		08/16/95		08/17/95
3	1479.01	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 EE-95-31467 E2-BE	RESULTS	Q -
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	1	ND = NOT DETECTED

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

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

RESULTS Q QNT. LIMIT UNITS PARAMETER _____

6.2 MG/KG 180 Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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-95-31469

MATRIX: SOLID

SAMPLE ID CLIENT: S-200/375 P

PARAMETER

RESULTS

Q QNT. LIMIT UNITS

-----Lead

-----24000

- -----5.4 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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 %

RESULTS IN DRY WEIGHT
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

J = ESTIMATED VALUE QUALIFIERS: C = COMMENT

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 %SOLIDS : 88 %

SAMPLE ID CLIENT: S-150/300

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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

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

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

RESULTS Q QNT. LIMIT UNITS PARAMETER _____

5.8 MG/KG Lead 46000

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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-95-31477

MATRIX: SOLID

SAMPLE ID CLIENT: S-200/300

PARAMETER -----

RESULTS Q QNT. LIMIT UNITS

Lead

-----2800

- ---------

5.4 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

JOB NUMBER :9501.868

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

: 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

1500 Lead 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

	(mc	g/kg as rece	ived)	
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 r	eceived)		
Parameter	E & E Laboratory No. 95- 31478	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		282	393	10.0	4X

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

9501.868

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ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT	
Lead	885	1000	88.5	

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

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

RESULTS Q QNT. LIMIT UNITS

Lead

ND

5.0 MG/KG

_____ QUALIFIERS: C = COMMENT ND = NOT DETECTED

PARAMETER _____

ecology and environment, inc. QUALITY ASSURANCE PROTOCOL REVIEW

Client: ERNST STE	EL	
Laboratory Data Review	Supervisor	Date
Metals	<u> </u>	8/27/95
Gen. Chem.		
<u>GC</u>		
CC/MS		
Micro, Asbestos		
Other		
	Signature	Date
Report Written by:	- XIK	86816
1st Draft Reviewed by:		= ====================================
CIKCULATED:	J.K.	2/12/6
2nd Draft Reviewed by: (If needed)		
Final Review by Author:		E 59 G
ASC Manager:	7.16-	5.68.5
OA Officer.		
Corp. Project Manager: ALB /	ECK 78% 9/1861	
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
Copies of Report Sent to:	Z/A	81016
Invoices Sent to Accounting		2591
Invoices Selic to Accounting	31	-

MEMORANDUM

TO:

Barb Peck

FROM:

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/qk 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

9501 - 31617 315007 - 31617 CHAIN OF CUSTODY RECORD

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ecology and environment, inc.

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

	CHAIN-OF-CUSTO	DY RECORD							Pageot
Project No.: SD-LOS FILMST STEEL SIFE	Project Manager:					المرابع المراب	<i>M/////</i>		
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Distribution: Original Accompanies Shipment; Copy to Coordinator Field File							I		0571194
*See CONCENTRATION RANGE on back of form.									

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

		CLIENT			
_	SAMPLE	SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
LE	IAD	(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
sc	DLIDS-TOTA	L (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	L (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

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 EE-95-31587 E7-BE	RESULTS	Q -
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

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

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

9501.882

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

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

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-95-31587

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

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

RESULTS Q QNT. LIMIT UNITS PARAMETER

_____ Lead 1300 6.7 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

JOB NUMBER :9501.882

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-95-31589

MATRIX: SOLID

SAMPLE ID CLIENT: E4-BE

PARAMETER ~~~~~

RESULTS Q QNT. LIMIT UNITS

Lead

-----1000

6.2 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 86 % RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-31592 MATRIX: SOLID

SAMPLE ID CLIENT: S-50/200

PARAMETER

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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 %SOLIDS : 95 %

SAMPLE ID CLIENT: S-150/250

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

_____ QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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-95-31597

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

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

%SOLIDS : 98 %

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

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-95-31599

MATRIX: SOLID

SAMPLE ID CLIENT: S-75/200

PARAMETER _____

RESULTS Q QNT. LIMIT UNITS

- ------

Lead

-----230

6.0 MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

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

RESULTS Q QNT. LIMIT UNITS PARAMETER

4200 5.7 MG/KG Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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-95-31601

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

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 96 %

RESULTS IN DRY WEIGHT
SAMPLE ID LAB : EE-95-31602 MATRIX: SOLID

SAMPLE ID CLIENT: S-100/225 P

PARAMETER

RESULTS Q QNT. LIMIT UNITS _____

17000 5.2 MG/KG Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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

RESULTS Q QNT. LIMIT UNITS PARAMETER

2900 5.7 MG/KG Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 83 %

SAMPLE ID CLIENT: S-200/300

PARAMETER _____

RESULTS Q QNT. LIMIT UNITS

54

- -----

Lead

6.0 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 90 %

RESULTS IN DRY WEIGHT
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

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-95-31609

MATRIX: SOLID

SAMPLE ID CLIENT: S-125/250

PARAMETER

RESULTS Q QNT. LIMIT UNITS

Lead

5200

5.2 MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

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 SAMPLE ID CLIENT: S-125/200 P MATRIX: SOLID

RESULTS Q QNT. LIMIT UNITS PARAMETER _____

Lead 3100 5.6 MG/KG

ND = NOT DETECTED QUALIFIERS: C = COMMENT

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

METALS SECTION JOB NUMBER :9501.882

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 92 % RESULTS IN DRY WEIGHT SAMPLE ID LAB : EE-95-31612
SAMPLE ID CLIENT: STOCKPILE #1 C

MATRIX: SOLID

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

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

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

9501.882

	(mg	/kg as rece	eived)	
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	g/kg as rece	eived)	
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 r	eceived)		
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 re	eceived)		
Parameter	E & E Laboratory No. 95- 31594	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		2640	4090	10.0	4 X

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

LABORATORY CONTROL SAMPLE I (08/17)

9501.882

144/2/	(uq	/	L)
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ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY	
Lead	896	1000	89.6	

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

(ua	/	L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY	
Lead	956	1000	95.6	-

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

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

ND

Lead

5.0 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

ecology and environment, inc. QUALITY ASSURANCE PROTOCOL REVIEW

Oob No.: <u>9501.890</u> Report Title:	Crit state	ate: <u>9/5,19</u>
lient:	·	
Laboratory Data Review	Supervisor	Date
Metals		8/30/95
Gen. Chem.		
GC .		
GC/MS		
licro, Asbestos		
Other		
	Signature	Date
Report Written by:	<u> </u>	<u> </u>
ist Draft Reviewed by:	<u> </u>	<u> </u>
included de 1000	2012) <u>kP</u>	49190
2nd Draft Reviewed by: (If nee		
		SIDAL
Final Review by Author:		<u> </u>
ASC Manager:	3712	2705
QA Officer:		
Corp. Project Manager: /2	26 PCL (WH 9/1971)	ı
(Internal Job) All QA Protocol Review Forms	CELL X	
Signed and in File (to be signed by report writ	,	<u> </u>
/ Copies of Report Sent to:	West hia XX	8/30/95
/ Invoices Sent to Account	ing ruck / 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 Lary Hahr Ke

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

CHAIN-OF-CUSTODY RECORD

Project No	,	Project	Name			· · · · · · · · · · · · · · · · · · ·		16									yyyyyyy
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JOB NUMBER : 9501.890

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

		CLIENT				
-	SAMPLE	SAMPLE		DATE	DATE	DATE
	NUMBER	ID		SAMPLED	EXTRACTED	ANALYZED
LEA	JD	(GF)) -S			
3	1638.01	STOCK PILE	#3	08/18/95	08/21/95	08/21/95
3	1639.01	STOCK PILE	#4	08/18/95	08/21/95	08/21/95
3	1640.01	S-225/350		08/18/95	08/21/95	08/21/95
3	1641.01	E9-BE		08/18/95	08/21/95	08/21/95
3	1642.01	E9-BE-SW		08/18/95	08/21/95	08/21/95
3	1643.01	E10-BE		08/18/95	08/21/95	08/21/95
3	1644.01	E4-PC		08/18/95	08/21/95	08/21/95
3	1645.01	E1-BE-SE		08/18/95	08/21/95	08/21/95
3	1646.01	E7-PC		08/18/95	08/21/95	08/21/95
SOL	IDS-TOTAL	L (MET)	-S			
3	1638.01	STOCK PILE	#3	08/18/95		08/21/95
3	1639.01	STOCK PILE	#4	08/18/95		08/21/95
3	1640.01	S-225/350		08/18/95		08/21/95
3	1641.01	E9-BE		08/18/95		08/21/95
3	1642.01	E9-BE-SW		08/18/95		08/21/95
3	1643.01	E10-BE		08/18/95		08/21/95
3	1644.01	E4-PC		08/18/95		08/21/95
3	1645.01	E1-BE-SE		08/18/95		08/21/95
3	1646.01	E7-PC		08/18/95		08/21/95

TEST CODE :STSMET1 JOB NUMBER :9501.890

ELAP ID : 10486

ND = NOT DETECTED

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

QUALIFIERS: C = COMMENT

J = ESTIMATED VALUE

TEST NAME : SOLIDS-TOTAL (MET) UNITS : %

PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
		-
EE-95-31638 STOCK PILE #3	91	
STOCK PILE #3		
EE-95-31639		
STOCK PILE #4	90	
EE-95-31640 S-225/350	81	
5-225/350	0.1	
EE-95-31641		
E9-BE	96	
EE-95-31642 E9-BE-SW	74	
	/- <u>-</u>	
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	

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 %SOLIDS : 91 %

SAMPLE ID CLIENT: STOCK PILE #3

RESULTS Q QNT. LIMIT UNITS PARAMETER

4100 Lead 5.5 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

JOB NUMBER :9501.890

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 90 %

RESULTS IN DRY WEIGHT
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

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

RESULTS Q QNT. LIMIT UNITS PARAMETER -----_ _____ ____ _____ 300 6.2 MG/KG Lead

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

JOB NUMBER :9501.890

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT

: SD-6000 ERNST STEEL

%SOLIDS : 96 %

RESULTS IN DRY WEIGHT 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

JOB NUMBER :9501.890

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 74 %

RESULTS IN DRY WEIGHT
SAMPLE ID LAB : EE-95-31642 MATRIX: SOLID

SAMPLE ID CLIENT: E9-BE-SW

RESULTS Q QNT. LIMIT UNITS PARAMETER

260 6.8 MG/KG Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

JOB NUMBER :9501.890

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT

: SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 97 %

RESULTS IN DRY WEIGHT
SAMPLE ID LAB : EE-95-31643

MATRIX: SOLID

SAMPLE ID CLIENT: E10-BE

PARAMETER _____

RESULTS Q QNT. LIMIT UNITS

Lead

15000

5.2 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

METALS SECTION JOB NUMBER :9501.890 ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 92 % RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-31644 MATRIX: SOLID

SAMPLE ID CLIENT: E4-PC

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

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

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

ND = NOT DETECTED

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

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

Client: ERNST &	DIEEL	
Laboratory Data Review	Supervisor	
Metals	<i>p</i> -)	1 [1] : 1)
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		
	Signature	Date
Report Written by:	: YK	7/4/9
1st Draft Reviewed by:		9/11/6
(IKO LLATED):		9/14/0
2nd Draft Reviewed by: (If needed)	and the second s	
2,10 210,10 NOVIONOS 2,10 (1. 1,20034)		*.
Final Paving by Authors	YIL	1115/14
Final Review by Author:		9 / -
ASC Manager:	1/10	
QA Officer:	a = nAat	1111
Corp. Project Manager: (Internal Job)	PECK JAG	1870
All QA Protocol Review Forms Signed and in File (to be signed by report wri <u>ter)</u>	0	·
Copies of Report Sent to:	AREKECK 1.K.	0/15/05
Invoices Sent to Accounting		11510
Comments/Notes:		

MEMORANDUM

TO:

Barb Peck

FROM:

Gary Hahn

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

Analytical Services Center 4493 Walden Avenue, Lancaster, New York, 14086, Tell 117, 167685-8080, Fax 716/685-0852 International Specialists in the Environment

9501.964

CHAIN-OF-CUSTODY RECORD

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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

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*See CONCENTRATION RANGE on back of form.

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JOB NUMBER : 9501.964

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

		CLIENT			
_	SAMPLE	SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
LE	AD	(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
SOI	LIDS-TOTAL				
-	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

JOB NUMBER : 9501.964

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

	CLIENT				
- SAMI	PLE SAMPLE		DATE	DATE	DATE
NUME	BER ID		SAMPLED	EXTRACTED	ANALYZED
SOLIDS-1	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-50/15	50	08/25/95		08/30/95
32046.	01 S-250/3	25	08/25/95		08/30/95
32047.	01 S-125/3	00	08/25/95		08/30/95

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	N	ID = NOT DETECTED

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	NI	D = NOT DETECTED

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 32040	85.0 88.1	84.9 88.9	0.2

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

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-95-32022

%SOLIDS : 87 %

MATRIX: SOLID

SAMPLE ID CLIENT: S-125/275

PARAMETER -----

RESULTS Q QNT. LIMIT UNITS

Lead

11

5.7 MG/KG

QUALIFIERS: C = COMMENT

METALS SECTION JOB NUMBER :9501.964

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 89 % RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-32023 MATRIX: SOLID

SAMPLE ID CLIENT: S-150/225

RESULTS Q QNT. LIMIT UNITS PARAMETER _____

97 5.6 MG/KG Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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-95-32024

MATRIX: SOLID

SAMPLE ID CLIENT: S-225/300

PARAMETER

RESULTS Q QNT. LIMIT UNITS

Lead

14

- ---------

6.1 MG/KG

QUALIFIERS: C = COMMENT

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

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

-----14

- -----

5.9 MG/KG

Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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

22

5.8 MG/KG

Lead

QUALIFIERS: C = COMMENT

JOB NUMBER :9501.964

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

-32029 RESULTS IN DRY WEIGHT %SOLIDS : 84 %

SAMPLE ID LAB : EE-95-32029 MATRIX: SOLID

SAMPLE ID CLIENT: S-50/175

RESULTS Q QNT. LIMIT UNITS PARAMETER -----

Lead 970 6.0 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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-95-32032

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

JOB NUMBER :9501.964

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT

: SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 94 %

SAMPLE ID LAB : EE-95-32034

Lead

MATRIX: SOLID

SAMPLE ID CLIENT: S-200/325

PARAMETER

RESULTS Q QNT. LIMIT UNITS - --------

-----91

5.3 MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

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: C 105/050

SAMPLE ID CLIENT: S-125/250

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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

RESULTS Q QNT. LIMIT UNITS PARAMETER _____

36 Lead 6.2 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

JOB NUMBER :9501.964 METALS SECTION 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

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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-95-32043

%SOLIDS : 84 %

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

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

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-95-32045 %SOLIDS : 91 %

MATRIX: SOLID

SAMPLE ID CLIENT: S-50/150

RESULTS Q QNT. LIMIT UNITS PARAMETER _____

3500 5.5 MG/KG Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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

9501.964

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

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 Lead Lead	32022 32023 32024	9.83 86.1 11.7	69.7 119 70.9	50 50 50	120 65.8 118						

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

LABORATORY CONTROL SAMPLE I (08/26)

9501.964

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ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY	
Lead	1200	1000	120	

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

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ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1200	1000	120

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

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

ecology and environment, inc. QUALITY ASSURANCE PROTOCOL REVIEW

Job No.:		Date:
Report Title:		·
Client:		
Laboratory Data Review Supe	rvisor	Date
Metals P	>	9/6/95
Gen. Chem.		1 1
GC		
GC/MS		
Micro, Asbestos		
Other		
	Signature	Date
Report Written by:		
1st Draft Reviewed by:		1,-16.5
· · · · · · · · · · · · · · · · · · ·		
2nd Draft Reviewed by: (If needed)		
Final Review by Author:	111	- alcolos
•	77.7	$\alpha = \alpha$
ASC Manager:	-///	<u> </u>
QA Officer:	. ^ _	
Corp. Project Manager: (Internal Job)	~ DAT	9/14/97
All QA Protocol Review Forms Signed and in File (to be signed by report writer)	. /	
/ Copies of Report Sent to: Copies of Report Sent to:	JK JK	9/1/05
/ Invoices Sent to Accounting		9/6/9
Comments/Notes:		

MEMORANDUM

TO:

Barb Peck

FROM:

Gary Hahn Hary Halx Br

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

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						Project Manage	<i>(</i> :			т—				_		
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Samples:	(Signatu	(01)			7	111			Field Team Lea				1			/3	3×)	/////	
As-		D				ell			John P	ELIC					\s <u>\</u>	89 		REMAI	iks
STATION NUMBER	DATE	TIME	1 1	YPE			SAMPLE	INFORMATION		STATION	LOCATION	NUMBER OF CON-		18/87	· •/		//		
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Relinquist	red By: (Signature	}	ľ	Jate/	Time:	Meceived BA	: (Signature)	, Trennquisnes E	y . (Signature)	Traier time.	The CE IVI	., .,	raign	Buner			BL/Airbill Number	Date
Relinquist		Signature 8/29/		- 1		Time 1734	Received Fo	Laboratory By:	Relinquished E	ly: (Signature)	Date/Time:	Receive (Signate		r Labo	inatory	Ву			8/29/95
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See CON	CENTRA	TION R	ANGE	on b	ouck o	of form.	نسر ر												

JOB NUMBER : 9501.981

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

		CLIENT				
-	SAMPLE	SAMPLE		DATE	DATE	DATE
	NUMBER	ID		SAMPLED	EXTRACTED	ANALYZED
LEA	JD	(ICP)) -S			
3	32129.01	BACKGROUND	#1	08/29/95	08/29/95	08/30/95
2	32130.01	BACKGROUND	#2	08/29/95	08/29/95	08/30/95
3	32131.01	BACKGROUND	#3	08/29/95	08/29/95	08/30/95
3	32132.01	S-12/250		08/29/95	08/29/95	08/30/95
3	32133.01	S-15/200		08/29/95	08/29/95	08/30/95
3	32134.01	S-175/225		08/29/95	08/29/95	08/30/95
3	32135.01	S-200/385		08/29/95	08/29/95	08/30/95
3	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
SOI	LIDS-TOTA	L (MET)	-S			
3	32129.01	BACKGROUND	#1	08/29/95		08/30/95
3	32130.01	BACKGROUND	#2	08/29/95		08/30/95
3	32131.01	BACKGROUND	#3	08/29/95		08/30/95
3	32132.01	S-12/250		08/29/95		08/30/95
3	32133.01	S-15/200		08/29/95		08/30/95
3	32134.01	S-175/225		08/29/95		08/30/95
3	32135.01	S-200/385		08/29/95		08/30/95
3	32136.01	S-225/372		08/29/95		08/30/95
3	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 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.

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

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-95-32130 %SOLIDS : 99 %

MATRIX: SOLID

SAMPLE ID CLIENT: BACKGROUND #2

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

J = ESTIMATED VALUE QUALIFIERS: C = COMMENT

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

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

JOB NUMBER :9501.981

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

: SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 99 %

MATRIX: SOLID

SAMPLE ID LAB : EE-95-32133

SAMPLE ID CLIENT: S-15/200

PARAMETER

RESULTS Q QNT. LIMIT UNITS

Lead

970

5.0 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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 _____

440 5.4 MG/KG Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

MATRIX: SOLID

%SOLIDS : 91 %

SAMPLE ID CLIENT: S-200/385

PARAMETER -----

RESULTS Q QNT. LIMIT UNITS

Lead

1200

5.5 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

METALS SECTION JOB NUMBER :9501.981

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 93 % MATRIX: SOLID RESULTS IN DRY WEIGHT

SAMPLE ID LAB : EE-95-32136

SAMPLE ID CLIENT: S-225/372

RESULTS Q QNT. LIMIT UNITS PARAMETER

_____ Lead 35 5.4 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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

9501.981

	n)	ng/kg as rec	ceived)	
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.

9501.981

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ANA				PERCENT RECOVERY
Lea	ad	894	1000	89.4

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

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

ecology and environment, inc. QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 4502, 145	•	Date:
Report Title: Client: ERNST	STEEL	
Laboratory Data Review	Supervisor	Date
Metals	<u>/ </u>	7/19/95
Gen. Chem.		:
GC		
GC/MS		
Micro, Asbestos Other		
	Signatur	e į Date
Report Written by:		9/9/95
1st Draft Reviewed by:		4/19/95
CIRCUATED		——————————————————————————————————————
2nd Draft Reviewed by: (If needed)	
Final Review by Author:	T/AX/	9120195
ASC Manager:	7/1/	9-11-75
QA Officer:	A	
Corp. Project Manager: AVE	ALBERS WY	10/2/1
All QA Protocol Review Forms Signed and in File (to be signed by report writer)	A	!
Copies of Report Sent to:	Arethlers (XI)	4 9/20/9K
Invoices Sent to Accounting	K	9/20/95
Comments/Notes:		

MEMORANDUM

TO:

Dave Albers

FROM:

Gary 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

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 /

							9-1	5-5	25																	
Project No		Project	NSF.	ン	21	FEL					Project Mana	ECIS	ó ·							aD)	5		7/			
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Distribution Original Accompanies Shipment, Copy to Coordinator Field Files

^{*}See CONCENTRATION RANGE on back of form.

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

JOB NUMBER : 9502.145

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

С	L	I	E	N	T
_	_			_	_

DATE	DATE	DATE
SAMPLED	EXTRACTED	ANALYZED
09/15/95	09/18/95	09/18/95
09/15/95	09/18/95	09/18/95
09/15/95	09/18/95	09/18/95
09/15/95		09/18/95
09/15/95		09/18/95
09/15/95		09/18/95
	SAMPLED 09/15/95 09/15/95 09/15/95 09/15/95	SAMPLED EXTRACTED 09/15/95 09/18/95 09/15/95 09/18/95 09/15/95 09/18/95 09/15/95

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

9502.145

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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

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

JOB NUMBER :9502.145

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-95-33026

MATRIX: SOLID

SAMPLE ID CLIENT: S-50//50

PARAMETER

RESULTS Q QNT. LIMIT UNITS - -----

Lead

29

5.7 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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 a	s 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.

(ua	/	L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY	
Lead	997	1000	99.7	

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

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

ecology and environment, inc. QUALITY ASSURANCE PROTOCOL REVIEW

300 No.: 4500.143		Date: 9/28/45
Report Title:		
Client: ERNST STEE	= 1	
	upervisor	Date O / no AGC
Metals)	(70)	7/26/7)
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		
	Signature	Date
Report Written by:	- JAK	- GDXIGK
1st Draft Reviewed by:	YIV	9128195
CIRCULATED:	71K	91295
2nd Draft Reviewed by: (If needed)		
ZNG Drait Reviewed by: (If Recued)		
Fig. 1 De de la hacken.		9696
Final Review by Author:		918)
ASC Manager:		
QA Officer:	\sim	
Corp. Project Manager: ALE ALE (Internal Job)		<u> </u>
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
Copies of Report Sent to:	BORS LIK	359195
	71/	912010
Invoices Sent to Accounting		<u> </u>

MEMORANDUM

TO:

Dave Albers

FROM:

Gary 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

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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

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^{*}See CONCENTRATION RANGE on back of form.

JOB NUMBER : 9502.163

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

	CLIENT			
- SAMPLE	SAMPLE	DATE	DATE	DATE
NUMBER	ID	SAMPLI	ED EXTRACTED	ANALYZED
LEAD	(ICP)	-S		
33133.01	Ell-PN	09/19/	95 09/19/95	09/19/95
33134.01	Ell-PS	09/19/9	95 09/19/95	09/19/95
SOLIDS-TOTA	AL (MET)	- S		
33133.01	Ell-PN	09/19/9	95	09/19/95
33134.01	Ell-PS	09/19/9	95	09/19/95

TEST CODE :STSMET1 JOB NUMBER :9502.163

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

: SD-6000 ERNST STEEL CLIENT

TEST NAME : SOLIDS-TOTAL (MET) UNITS : %

PARAMETER : Solids Total

RESULTS Q SAMPLE ID ______

EE-95-33133

88 E11-PN

EE-95-33134

84

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

9502.163

		(욱)		
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.

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

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

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

ND

Lead

5.0 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

ecology and environment, inc. QUALITY ASSURANCE PROTOCOL REVIEW

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Laboratory Data Review S	upervisor/	Date 2 / 1//05
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nd Draft Reviewed by: (If needed)		
		
inal Review by Author:	2/A-1	
ASC Manager:	1000	12/492
QA Officer:		
Corp. Project Manager: Lane all (Internal Job)	kelQ v	
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Copies of Report Sent to: Clar A	thia JUK	12/14/95
/ Invoices Sent to Accounting	will kit	12/1/95
omments/Notes:		
		COMMUNICATION CONTRACTOR CONTRACT

MEMORANDUM

TO:

Dave Albers

FROM:

Gary Hahn Lary Hahri Dr

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

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*See CONCENTRATION RANGE on back of form.

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

85

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

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

OUALIFIERS: C = COMMENT ND = NOT DETECTED

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

9502.831

	_ (π	ng/kg as rec	eived)	
Parameter	E & E Laboratory No. 95- 37179	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		25.0	. 24.5	2.0

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

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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

ecology and environment, inc. QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 9600.128		Date: 1-26-96
Report Title:		
Client: ERNST	STEFT	
Laboratory Data Review Sc	pervisor	Date
Metals	<u> </u>	1/29/96
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		
	Signature	Date
Report Written by:	Q1 to	1-26-96
1st Draft Reviewed by:	RIH	1-21-90
Circulated;	O(H	1-26-96
2nd Draft Reviewed by: (If needed)		
Final Review by Author:		
ASC Manager:	****	
QA Officer:		Application of the second seco
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: Clical Vie	1 <u> </u>	1/3/96
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Comments/Notes:	- '	

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.

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GH/rh 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

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JOB NUMBER : 9600.128

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

		CLIENT				
-	SAMPLE	SAMPLE		DATE	DATE	DATE
	NUMBER	ID		SAMPLED	EXTRACTED	ANALYZED
			,			
LEAI	5	(ICP)	-S			
3 8	3753.01	EXCAVATION	#12 (DUP)	01/22/96	01/24/96	01/24/96
3.8	3754.01	EXCAVATION	#12B	01/23/96	01/24/96	01/24/96
38	8755.01	EXCAVATION	#10 B	01/23/96	01/24/96	01/24/96
SOL	IDS-TOTAI	L (MET)	-S			
38	8753.01	EXCAVATION	#12(DUP)	01/22/96		01/24/96
3.8	3754.01	EXCAVATION	#12B	01/23/96		01/24/96
3 8	8755.01	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

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

9600.128

		(왕)		
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

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
SAMPLE ID LAB : EE-96-38754 RESULTS IN DRY WEIGHT %SOLIDS : 76 %

MATRIX: SOLID

SAMPLE ID CLIENT: EXCAVATION #12B

RESULTS Q QNT. LIMIT UNITS PARAMETER _____

6.6 MG/KG Lead 280

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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
SAMPLE ID LAB : EE-96-38755

%SOLIDS : 90 %

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

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)								
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.

	(ug/L)						
	FOUND	TRUE	PERCENT				
ANALYTE	VALUE	VALUE	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

ecology and environment, inc. QUALITY ASSURANCE PROTOCOL REVIEW

Client: <u>LRNST</u>	OTFEL	
Laboratory Data Review	Supervisor	Date
Metals		
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GC /		
GC/MS		
Micro, Asbestos		
Other		
	Signature	Date
Report Written by:	- JK	
1st Draft Reviewed by:		<u> </u>
Checi		
2nd Draft Reviewed by: (If needed)		
Final Review by Author:		
ASC Manager:	1/A	2/9/16
QA Officer:		
Corp. Project Manager:	AREKS DA	2-16-91
All QA Protocol Review Forms Signed and in File (to be signed by report writer)	1	
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Invoices Sent to Accounting		
Community (Nahara		

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

407064

MEMORANDUM

TO:

Dave Albers ~

FROM:

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

ecology and environment, inc.

Rusit - 48th Turnaramo

Analytical Services Center 4493 Walden Avenue, Lancaster New York, 14086 -1c1 716-685-8080 -Fax 716-685-0852

International Specialists in the Environment.

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JOB NUMBER : 9600.222

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

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

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TEST CODE :STSCLP1 JOB NUMBER :9500.222

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

TEST NAME : CLP SOLIDS-TOTAL UNITS : %

PARAMETER : SOLIDS - TOTAL

RESULTS Q SAMPLE ID _____

EE-96-39338

74 ESS-E10-1

EE-96-39339

ESS-E10-2 65

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 MATRIX : SOLID SAMPLE ID LAB : EE-96-39338

SAMPLE ID CLIENT: ESS-E10-1

PARAMETER	RESUI	LTS	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

RESULTS	Q	QNT.	LIMIT
	-		
ND			0.031
0.11			0.031
ND			0.031
	ND 0.11 ND ND ND ND ND	ND 0.11 ND ND ND ND ND	ND 0.11 ND ND ND ND ND ND

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)								
		Amou: Adde		Amou Determ		Perc Reco	ent very	
Parameter	Original Result	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

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Parameter	Amount	Amount	Percent
	Added	Determined	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	
Tetra-chloro-m-xylene	39338	112	
	39339	111	
	39339 MS	138	
	39339 MSD	136	
	Method Blank (6180)	131	
	LCS (6179)	144	
Decachlorobiphenyl	39338	120	
200001202022511011, 2	39339	129	
	39339 MS	147	
	39339 MSD	137	
	Method Blank (6180)		
	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

Tei: (716) 759-7821

Fax: (716) 759-7823

Job No.:96-1229

March 14, 1996

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

ATTN:

Mr. Clark Martens

RF.

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. (NWEC&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, NWEC&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, NWEC&C relocated the last on-site stockpile of material to the agreed upon staging area and placed the material on plastic. NWEC&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 NWEC&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 Hydrogeolgist

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.

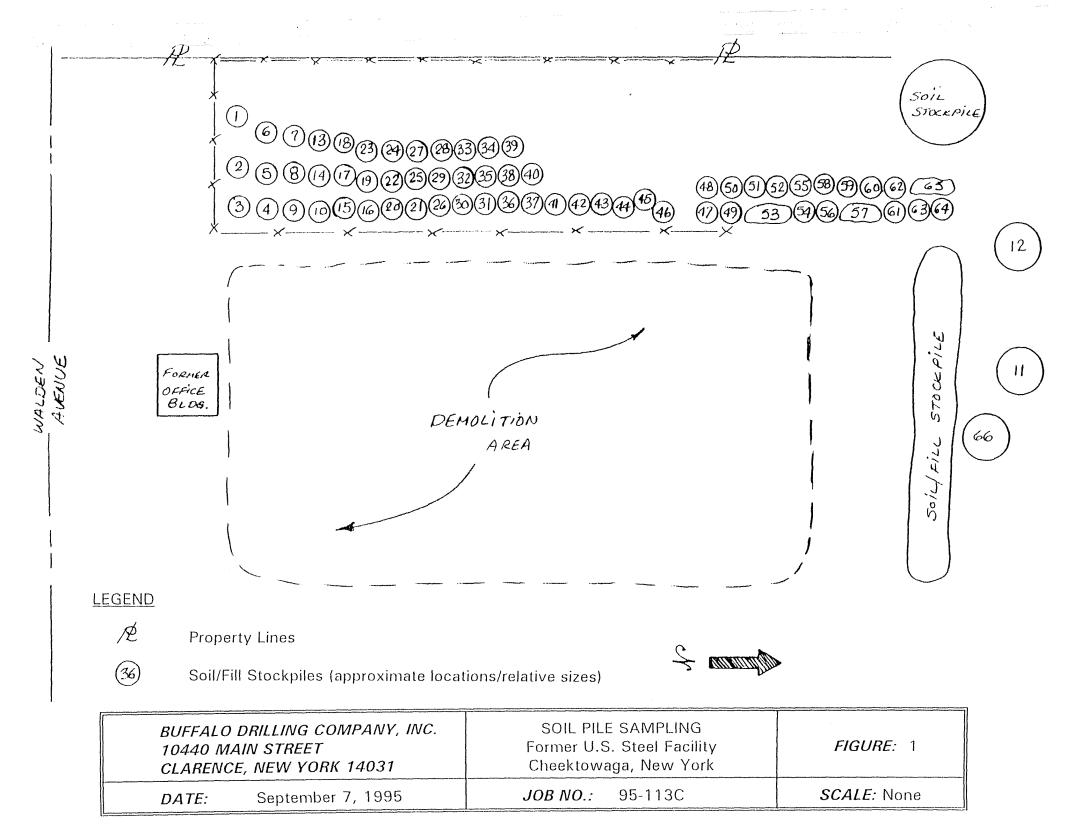
Yours truly,

BUFFALO DRILLING COMPANY, INC.

Andrew J. Kucserik, CPG

Andrew J. Excesión

Senior Geologist



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



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.				

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		Date	Date	
Lab ID	Client ID	Digested	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 Pìle #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
W\$21373	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

Group Number : 9501-415

Date Sampled: 9/6/95

Report Units: mg/L (PPM)

Date Received : 9/6/95 @ 1700

Matrix: TCLP Extract

TCLP Extraction Date: 9/6/95

WST		Date	Date	
Lab ID	Client ID	Digested	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.





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

CHAIN OF CUSTODY RECORD

TEC	HN	2 L O G	iΥ	(716) 876-5290				950	1-41	5			CHAIN)F CU	SIODY RECORD	
PROJECT SAMPLERS	NO: 95 SIGN	ATURE)	3C	GRAB		, S. S OCT	tee/	SIZE & NO. OF CON- TAINERS		3//				TCLP Let. A RESERVATIVES		REMARKS	
NO.	9/2	HME	X	GKAD	5		Pile #1	/	V					1		2134/3	
75-1136	01				5	1	#2	1						0.63		1 77	
02			X		5	11	±3	1	V					4.1		4	
63			X		S	11	#4	1	~					4.0		46	
04		·	X		S	4	#5	1						3 3		47	
05			X	-	S	(1	#6	1	~					(3		44	
00		-	X		15	11	4-	1						73		49	
07			×	-	15	10	44 G	/	~					26		50	
	1		1		5	, A	#0	1						11		51	
10	+ +	-	+ <u>×</u>		12	/) /	V					7.1		57	
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1=			X		5	,	. #0	7 /						6.4		55	
RELI	NOUIS		(SIGNA		DATE/TI		RECEIVED BY (SIG		RELI	IQUISHE	DBY (SIG	NATUR	RE)	DATE/TIME		ECEIVED BY (SIGNA	IUHE)
COM	MOU	SHED B	ゴ <u>ル</u> Y(SIGN/			ATE/TIME RECEIVED BY (SIG			RELI	NQUISHE	DBY (SIG	SNATU	RE)	DATE/TIME	R	ECEIVED BY (SIGNA	TURE)
100	NOU	SHEDB	Y (SIGN.	ATURE)		DATE/TIME RECEIVED BY (SIG) DATE/TIME REMARKS				S		1		
	Distribution Original accompanies shipment. Copy to coordinator field files																

LAB USE: REFRIGERATOR # _____

SHELF # _____

STREAM UNGLOGY

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

2	C H N	0 L O (G Y	(716	6) 876-5290)			950	1-41	5				CHAIN	OF CL	ISTODY RECORD
SAMPLER SAMPLE SAMPLE NO.	-//3 s (sign	IATURE	enk	Ë	SITE NAM J , S , BOCT MATRIX	Steel	/ MPLE LOCATION	SIZE & NO. OF CON- TAINERS	7	80//				/	Ci P PRESERVATION	\$3, w) 7	REMARKS
95-136-1	47/6		X		S	Sil	Pile #14	1	V						·~ 1		21756
-15			\times		S		#15	1	~						2.3		57
-16			X		5		#16	1							4.2		58
-17			X		S		#17	1							8.8		57
-18			X		S		#18	1							10		40
-19			X		2		#19	/							4.2		G/
-20			X		2		#20	1							7.4		62
-21			X		S		#21	/							9.5		67
-22			X		5		#22	/							14		64
-23			X		S		#23	/							43		65
-24			X		2		#24	1							17		64
-25			X		5		#25	1	~		-				29		67
-24			X		S	<u> </u>	#26	1						·	15		68
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RELIN	190AEF	EDBY	SIGNAT	URE)	DATE/TIM	IE	RECEIVED BY (SIGNA	ATURE)	DATI	:/П МЕ	REI	MARKS					
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CHNOLOGY

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

9501-415

CHAIN OF CUSTODY RECORD

ECH NOT	0, 0.0 00-1		450,	1-415				
SAMPLERS (SIGNATURE):	SITE NAME: U.S. Stee! BPCI	SIZE & NO. OF CON- TAINERS	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		/	//	PRESENTATIVES	REMARKS
SAMPLE DATE TIME COMP GRAE		 	K/		/ / -	(1
NO. GC X	S So: 1 Pile # 27	/				-		1521369
	5 #28	//					15	70
-zs X	S #29	/	v				5.9	71
-29 X	S #30	1				_	9.8	72_
-30 X	S #31	1	~			-	5,9	73
-31 X	S #32	. 1	V				7.1	74
	S #33	3 /	1				17	75
-33 X	S #39	4 1	V			_	1,3	76
-34 -35	S #3S	1					15	77
	S #36	- <i>1</i>	V				13	78
-3C X	S #37	7 /					19	79
-37 X	S #3	3 /					65	80
-39 ×	\$ #3	9 /	V				DATE/TIME	RECEIVED BY (SIGNATURE
RELINQUISHED BY (SIGNATURE)	DATE/TIME RECEIVED BY (SI	GNATURE)			(SIGNATURE)			
And Sucart RELINQUISHED BY (SIGNATURE	9C/95 500 PM	IGNATURE)	RELING	KUISHED BY	(SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE
RELINQUISHED BY (SIGNATURE	DATE/TIME RECEIVED BY (S	IGNATURE)	DATI	Е/ПМЕ	REMARKS			
Side the Original acc	ompanies shipment. Copy to coordinat	or field files						·

LAB USE: REFRIGERATOR # ____



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

9501-415

CHAIN OF CUSTODY RECORD

				4501-	913				
жојест NO: 95 - 113C	SITE NAME: U , S,	Stee/	SIZE & NO. OF	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\			7 /	TCLP LEVELY TUES	REMARKS
SAMPLERS (SIGNATURE): SAMPLE DATE TIME COMP	BOCE GRAB MATRIX SA	AMPLE LOCATION	CON- TAINERS	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		/ //		PAESE PAESE PAESE PAESE PAESE	
NO. 5-113c-459/4 X	5 50%	1 Pile #40	/	/					11521382
-41 X		#41	1	/				37	83
-42 X		142	1					14	821
-43 X		#43	1					36	85
-ing X		#444	1 1					9,4	86
-45 X		#45	1				 	25	87
-46 X		#46	1					3.1	88
-47 X		#41	1					148	89
-48 X		#4 8	1	V				1.9	90
-49 X		#49	1	L			_	44	91
-D X		#50) 1	<u> </u>				4,3	92
-51 X		#51	<u> </u>					14	93
-52 × X	+	¥52		DELINO	HICHED	Y (SIGNAT	TIPE	DATE/TIME-	RECEIVED BY (SIGNATURE)
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Distribution Original c	LL accompanies shipment	. Copy to coordinator	field files						

LAB USE: REFRIGERATOR # _____ SHELF # ____



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

E (**************************************	\$ F O (3 Y	(716) 876-52	90			950	1-4	15				CHAIN	OF CUSTODY RECORD
ROJECT	NO: 5'S	-//	30			<u>, 3. 5</u>	SIZE & NO. OF CON-	/	\ <mark>\go</mark> /		//		//	TCP LESTINATION	REMARKS	
SAMPLERS SAMPLE			COMP	GRAB	DCI MATRI		PLE LOCATION	TAINERS	/\ ^{\\}	/ /	/	/ /			T.C.P. L.C.L.	
NO. 5-1136-53	96		X		S	\$:1	Pile #53	1							1.4	US 2/395
-54			X				#54	1							25	96
-51			X				#55	1	/						2,2	97
-52		<u> </u>	X				#56								41	J 98
-57			X				#57	1			_			-	28	99
-58			X				#58	/		_					3.3	WS214 00
-59		-	X				#59	1						-	2.9	, 01
-60			X		1-1		#40	/							7,2	OZ
Sed	1		X				#61	1						_	8.2	03
-62			X				#62	1	-/					_	2.4	04
-63		<u> </u>	X		1-1		#63		\ <u>\</u>		_				5.7	05
	11	-	X		$\perp \downarrow$		#64								5.4	06
-65	11	50.00	X	<u> </u>	1		THES								158-	W 07
Ang	EUISH EXZ	EDBA (SIGNATU L	1	DATE/II	500 P	RECEIVED BY (SIGN)	ATUHE)	RELIN	IQUISH	ED B y	(SIGNA	TURE)	-	DATE/TIME	RECEIVED BY (SIGNATURE)
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	Distrib	ution C	riginal c	accomp	anies st	nipment. Co	py to coordinator fl	eld files			-					

LAB USE: REFRIGERATOR # ____

SHELF # _

APPENDIX J

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

BUFFALO DRILLING COMPANY



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

September 25, 1995

Saperston & Day, P.C.

1100 M & T Center Buffalo, New York 14203

Buttalo, 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

Job No.: 95-113E

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.

richard & Crench

Richard L. Crouch

Senior Hydrogeologist

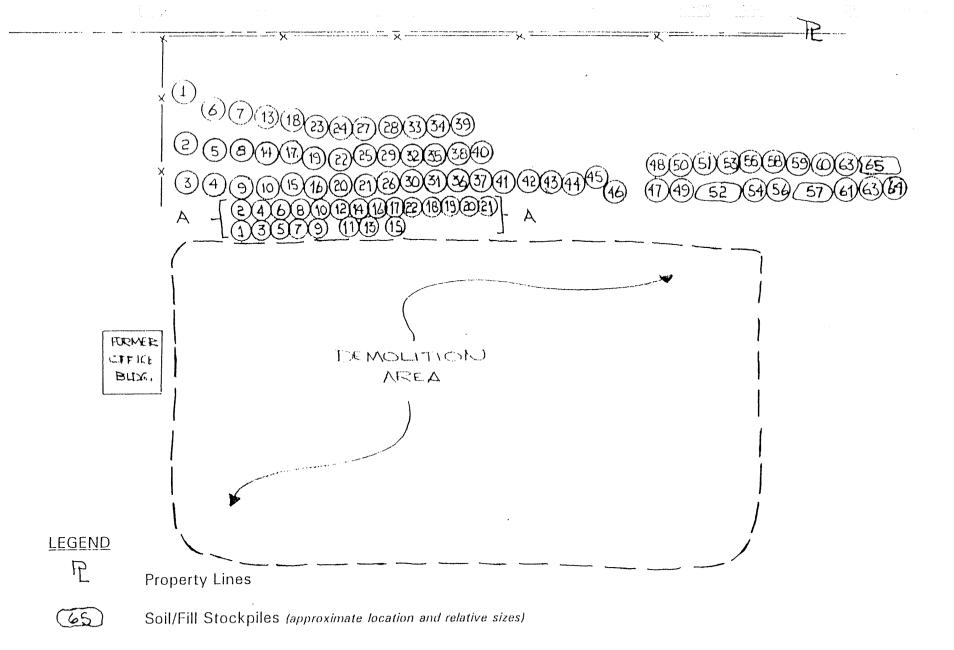
attachments

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

DATE: September 18, 1995

SOIL PILE SAMPLING
Former U.S. Steel Facility
Cheektowaga, New York

JOB NO.: 95-113D

SCALE: None

FORMER U.S. STEEL FACILITY CHEEKTOWAGA, NEW YORK

Soil Pile No.	Sample No.¹
1	1 E
6	1 W 6 E
, 7	6 W 7 E
8	7 W 8 E
9	8 W 9 E
10	9 W 10 E
13	10 W 13 E
14	13 W 14 E
16	14 W 16 E
17	16 W 17 E
18	17 W 18 E
20	18 W 20 E
21	20 W 21 E
22	21 W 22 E
23	22 W 23 E 23 W
24	23 VV 24 E 24 W

FORMER U.S. STEEL FACILITY CHEEKTOWAGA, NEW YORK

Soil Pile No.	<u>Sample No.</u>
25	25 E
26	25 W 26 E
27	26 W 27 E
. 28	27 W 28 E
29	28 W 29 E
30	29 W 30 E
31	30 W 31 E
32	31 W 32 E
33	32 W 33 E
35	33 W 35 E
36	35 W 36 E
37	36 W 37 E
38	37 W 38 E
40	38 W 40 E
41	40 W 41 E
42	41 W 42 E 42 W

FORMER U.S. STEEL FACILITY CHEEKTOWAGA, NEW YORK

Soil Pile No.	<u>Sample No.</u>
43 .	43 E
4.4	43 W
44	44 E
45	44 W 45 E
40	45 E 45 W
47	43 VV 47 E
,	47 W
49	49 E
	49 W
51	51 E
	51 W
54	54 E
	54 W
56	56 E
C 7	56 W
57	57 E
60	57 W 60 E
	60 W
61	61 E
	61 W
63	63 E
	63 W
64	64 E
	64 W
65	65 E
	65 W

FORMER U.S. STEEL FACILITY CHEEKTOWAGA, NEW YORK

Soil Pile No. ²	<u>Sample No.</u>
A 1	A 1 E
A 2	A 1 W A 2 E
А 3	A 2 W A 3 E
, A 4	A 3 W A 4 E
A 5	A 4 W A 5 E
A 6	A 5 W A 6 E
A 7	A 6 W A 7 E
A 8	A 7 W A 8 E
A 9	A 8 W A 9 E
A10	A 9 W A10 E
A11	A10 W A11 E
A12	A11 W A12 E
A13	A12 W A13 E
A14	A13 W A14 E
A15	A14 W A15 E
A16	A15 W A16 E A16 W

FORMER U.S. STEEL FACILITY CHEEKTOWAGA, NEW YORK

September 15, 1995

Soil Pile No.	<u>Sample No.</u>
A17	A17 E
A18	A17 W A18 E
ATO	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 reproportioned 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. Voe

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBER (ELAP) 11179

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.				

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		Date	Date	
Lab ID	Client ID	Digested	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
W\$21988	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		Date	Date	
Lab ID	Client ID	Digested	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



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

9501 - 428 CHAIN OF CUSTODY RECORD

PROJECT NO: SITE NAME: 95-113C U. S. Stee! SAMPLERS (SIGNATURE);									SIZE & NO. OF		/	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		////			//	PRESERVAT.	REMARKS		
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LAB USE: REFRIGERATOR # _____ SHELF # ____



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

9501-428.

CHAIN OF CUSTODY RECORD

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LAB USE: REFRIGERATOR # _____

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BUFFALO, NY 14207 (716) 876-5290

9501-478

CHAIN OF CUSTODY RECORD

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LAB USE: REFRIGERATOR # _____ SHELF # ____

302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290 P. 4 OF 6

9501-428.

CHAIN OF CUSTODY RECORD

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LAB USE: REFRIGERATOR # _____

SHELF#



BUFFALO, NY 14207 (716) 876-5290

9501-428

CHAIN OF CUSTODY RECORD

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302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290 D6000

CHAIN OF CUSTODY RECORD 9501-428 ... PRESERVATIVES! SITE NAME: PROJECT NO: USSME 95-11-5C SIZE & NO. OF REMARKS SAMPLERS (SIGNATURE): CON-**TAINERS** SAMPLE DATE TIME COMP GRAB MATRIX SAMPLE LOCATION SAMILL NO. 95-1134 3/15 SOL PILE #43 UBST 6/05. W 2 7 20 44 SOLPILE #44EAST 44E Éi-Souther AHWEST 44W 46 Son Ru #ASEX57 45E منكا 47 Son Pre 45 West 45W سمنتهأ 48 Sanfact 47 this A7E 49 Son PILE 47 WHOT مهنيه 47W) 50 RELINQUISHED BY (SIGNATURE) RECEIVED BY (SIGNATURE) DATE/TIME RELINQUISHED BY (SIGNATURE) RECEIVED BY (SIGNATURE) DATE/TIME 1/15/9/2/30 Cerulu Tran 9/11/91 3:45 RELINQUISHED BY (SIGNATURE) DATE/TIME RECEIVED BY (SIGNATURE) DATE/TIME RELINQUISHED BY (SIGNATURE) 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 # ____

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.: 4501.116		Date:	11/15
Report Title:			•
Client:			
Laboratory Data Review Superv	risor	Det	.8
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Final Review by Author:	1/1/6	<u> </u>	11.19
ASC Manager:		- 🦟	
QA Officer:	TA Glide		
Corp. Project Manager: The Let Reserved	- \ DIT 4/19/1		
All QA Protocol Review Forms Company			
(to be signed by report writer)	,		
	ia JK		9/11/95
/ Invoices Sent to Accounting	- 17/2		9/11/95
Comments/Notes:	•		

MEMORANDUM

TO:

Barb Peck

FROM:

Gary Hahn Hary Halx I 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

							APT	
Project No.: Project Name: SD-6050 FANDY STEEL JAE	Project Manager:					10		
Samplers: (Signatures)	Field Team Leader:					V.W		
Die Madell	J. PECK	<u> </u>			(EAP)	F	REMARI	<s td="" <=""></s>
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02 (2)6 X	Stoc	Spike #5	/	$X \square$				
03 / 2:15 X		EXPILE #6	1	$\lambda \perp$			Hold Sample For	PNANJENS
04 (2:20 X)	tal	Spile 4-6#	-	\widehat{A}		17	LUCIA DANGEL MAN	DOME OND
05 7:25 4	70	D#Z	1	X		1->	by physical man	2572
07) 2:35 X	Td	D#Z(DUR)	1	_ X		(FIE (TC	(A)
08 / 2:3/gX /)	TC.	19 # 3	1/	X		- -`		
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De Noveled 5-30-5 Signature Distribution Original Accompanies Shipment; Copy to Coordinator Field Files					······································			0571194

*See CONCENTRATION RANGE on back of form.

JOB NUMBER : 9501.998

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

		CLIENT			
-	SAMPLE	SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
LEA	D	(ICP)-S			
3	2196.01	STOCKPILE #4	08/30/95	08/22/95	08/31/95
3	2197.01	STOCKPILE #5	08/30/95	08/22/95	08/31/95
3	2198.01	STOCKPILE #6	08/30/95	08/22/95	08/31/95
SOL	IDS-TOTA	L (MET) -S			
3	2196.01	STOCKPILE #4	08/30/95		08/30/95
3	2197.01	STOCKPILE #5	08/30/95		08/30/95
3	2198.01	STOCKPILE #6	08/30/95		08/30/95
TCI	P - CHRO	MIUM (ICP)-S			
3	2199.01	STOCKPILE #4-#6	08/30/95	08/31/95	09/05/95
3	2200.01	TCLP #1	08/30/95	08/31/95	09/01/95
3	2201.01	TCLP #2	08/30/95	08/31/95	09/01/95
3	2202.01	TCLP #2 DUP	08/30/95	08/31/95	09/01/95
3	2203.01	TCLP #3	08/30/95	08/31/95	09/01/95
3	2204.01	TCLP #4	08/30/95	08/31/95	09/01/95
TCL	P - LEAD	(ICP)-S			
3	2199.01	STOCKPILE #4-#6	08/30/95	09/01/95	09/05/95
3	2200.01	TCLP #1	08/30/95	09/01/95	09/01/95
3	2201.01	TCLP #2	08/30/95	09/01/95	09/01/95
3	2202.01	TCLP #2 DUP	08/30/95	09/01/95	09/01/95
3	2203.01	TCLP #3	08/30/95	09/01/95	09/01/95
3	2204.01	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

RESULTS Q SAMPLE ID -----_____ EE-95-32196

STOCKPILE #4 96

EE-95-32197 STOCKPILE #5 95

EE-95-32198 95 STOCKPILE #6

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

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 % RESULTS IN DRY WEIGHT %SOLIDS : 95

SAMPLE ID LAB : EE-95-32197 MATRIX: SOLID

CAMPLE ID CHIEFE STOCKET #5

SAMPLE ID CLIENT: STOCKPILE #5

RESULTS Q QNT. LIMIT UNITS PARAMETER

6000 5.3 MG/KG Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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	TRUE	PERCENT
	VALUE	VALUE	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

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB :EE-95-32199 MATRIX: SOLID UNITS : MG/L

SAMPLE ID CLIENT: STOCKPILE #4-#6

	DEGITE EG	_	2	REGULATORY
PARAMETER	RESULTS	Q	LIMIT	LEVEL
~ ~ ~ ~ ~ ~ ~ ~		-		
Chromium	0.14		0.030	5.0
Lead	51		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

QUANTITATION REGULATORY

		SOWITTIVITON	TOTAL ONE
RESULTS	Q	LIMIT	LEVEL
	-		
0.25		0.030	5.0
25		0.15	5.0
	0.25	0.25	0.25 0.030

QUALIFIERS: C = COMMENT ND = NOT DETECTED

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB :EE-95-32201 MATRIX: SOLID SAMPLE ID CLIENT: TCLP #2 UNITS : MG/L

QUANTITATION REGULATORY

		Q 0. m	1000000
RESULTS	Q	LIMIT	LEVEL
	-		
1.2		0.030	5.0
42		0.15	5.0
	1.2	1.2	1.2 0.030

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

OUANTITATION REGULATORY

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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
 LIMIT
 LEVEL

 Chromium
 0.51
 0.030
 5.0

 Lead
 29
 0.15
 5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

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 MATRIX: SOLID SAMPLE ID CLIENT: TCLP #4 UNITS : MG/L

QUANTITATION REGULATORY

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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 Tot	cal	0.247 25.4	0.250 25.4	1.2

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

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

9501.998

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

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.

9501.998

|--|

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

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL

Lead

ND

0.15 5.0

QUALIFIERS: C = COMMENT

Bridge of the stage of the stage of the stage

ecology and environment, inc. QUALITY ASSURANCE PROTOCOL REVIEW

Client: <u>ERNST</u>	STEEL	
Laboratory Data Review	Supervisor	Date
Metals	<u></u>	12/27/95
GenChem.		
GC		
GC/MS		
Micro, Asbestos		
Other		
	Signature	Date
Report Written by:	<u> </u>	12674
Tat Draft Reviewed by:	·	12/27/0
- IRCULATED:	- LOK	667/9
2nd Draft Reviewed by: (If needed)	-	
Final Review by Author:		
ASC Manager:	M	12 27.95
QA Officer:	· · · · · · · · · · · · · · · · · · ·	·
Corp. Project Manager:) AVE /	ILBERS	
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
Copies of Report Sent to:	E ABORS, AK	<u> 12127/95</u>
Invaices Sent to Accounting		126719.
Comments/Notes:		Maria

MEMORANDUM

TO:

Dave Albers

FROM:

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 L of Z

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8		2:35		X						#8	/	X	X								
9		2:40		X						# 9	/	X	X								
10		2:45		K.					<u> </u>	#10	1	X	X								
11)	2150	1	X				`	\\s	#11	/	$ \mathbf{x} $	X								
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*See CON	CENTRA	ATION FL	ANGE o	n bacl	of form.	\ \															

ecology and environment, inc. Analytical Services Center

Analytical Services Center 4493 Walden Avenue, Lancaster, New York, 14086, Tcl. 716/685-8080, Fax 716/685-0852

International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page Z of Z

50.4050 EINST STEEL SITE	Project Manager DAVE ALWANS Field Team Leader:			
Ril Maudll 12-13-85	6. MAXWELL			REMARKS
STATION NUMBER DATE TIME SAMPLE SAMPLE INFORMATION O G G G EXPECTED COMPOUNDS [Concentration]*	STATION LOCATION	NUMBER OF CON- TAINERS		
14 12134 201 X LOW LEVEL 1EAD	· Stockpile #14	/ XX		I IF TCL- MAD
15 S S 09 X	(tt/5			is ane below
16 2 3:11 X	#/6	1-4-XX		Jbw don, Fund
17 (3:13 X		1-BA		ysis for TChip
18 (3:15 X)	1/8		1000	AM GUESTIANS
19 3:17 X	<u>tt 19</u>	/ × X -	- CONTO	act D. Allogno
20 [3:19]	#20	-/XX	- - - -X-ZI	404 FUR (HQ)
21 3:21 X	1 12	 		
27 (3:23 X 23 (3:25 X	1 1 4 2			
	classon #2//			
ZYRB-93 3:27 X	Stockfulle #24	' 		
			-	
Relinquished By: (Signature) Date/Time: Received By: (Signature) Re	dinquished By. (Signature) Date/Time:	Received By: (Signate	re) Ship Via:	•//
	Innuished fly: (Signature) Date/Time	Received By {Signate		N/a
Presinguisited by Asignature	linguished By: (Signature) Date/Time	Treceived by 13thurts	BL/Airbill Nymi	ber: Date:
Distinguished by: Gighatyre: 10 17	clinquished By: (Signature) Date/Time:	Received For Laborat	ory By:	12-13-95
Sulful 12.17			1 7 4	
Distribution: Diginal Accompanies Shipment, Copy to Coordinate Field Files *See CONCENTRATION RANGE on back of form.				0571194

JOB NUMBER : 9502.874

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

		CLIENT				
-	SAMPLE	SAMPLE		DATE	DATE	DATE
	NUMBER	ID		SAMPLED	EXTRACTED	ANALYZED
LEAD		(IC	P) -S			
37	418.01	STOCKPILE	#1	12/13/95	12/15/95	12/18/95
	419.01	STOCKPILE	#2	12/13/95	12/15/95	12/18/95
	420.01	STOCKPILE		12/13/95	12/15/95	12/18/95
37	421.01	STOCKPILE	#4	12/13/95	12/15/95	12/18/95
37	422.01	STOCKPILE	#5	12/13/95	12/15/95	12/18/95
37	423.01	STOCKPILE	#6	12/13/95	12/15/95	12/18/95
37	424.01	STOCKPILE	#7	12/13/95	12/15/95	12/18/95
37	425.01	STOCKPILE	#8	12/13/95	12/15/95	12/18/95
37	426.01	STOCKPILE	#9	12/13/95	12/15/95	12/18/95
37	427.01	STOCKPILE	#10	12/13/95	12/15/95	12/18/95
37	428.01	STOCKPILE	#11	12/13/95	12/15/95	12/18/95
37	429.01	STOCKPILE	#12	12/13/95	12/15/95	12/18/95
374	430.01	STOCKPILE	#13	12/13/95	12/15/95	12/18/95
374	431.01	STOCKPILE	#13-2	12/13/95	12/15/95	12/18/95
374	432.01	STOCKPILE	#14	12/13/95	12/15/95	12/18/95
374	433.01	STOCKPILE	#15	12/13/95	12/15/95	12/18/95
374	434.01	STOCKPILE	#16	12/13/95	12/15/95	12/18/95
374	435.01	STOCKPILE	#17	12/13/95	12/15/95	12/18/95
374	436.01	STOCKPILE	#18	12/13/95	12/15/95	12/18/95
374	437.01	STOCKPILE		12/13/95	12/15/95	12/18/95
374	438.01	STOCKPILE	#20	12/13/95	12/15/95	12/18/95
374	439.01	STOCKPILE		12/13/95	12/15/95	12/18/95
374	440.01	STOCKPILE		12/13/95	12/15/95	12/18/95
374	441.01	STOCKPILE	#23	12/13/95	12/15/95	12/18/95
374	142.01	STOCKPILE	#24	12/13/95	12/15/95	12/18/95
SOLII	DS-TOTAL	L (MET)	-S			
	118.01	STOCKPILE		12/13/95		12/15/95
	119.01	STOCKPILE		12/13/95		12/15/95
374	120.01	STOCKPILE		12/13/95		12/15/95
374	121.01	STOCKPILE		12/13/95		12/15/95
374	122.01	STOCKPILE		12/13/95		12/15/95
374	123.01	STOCKPILE	#6	12/13/95		12/15/95
	124.01	STOCKPILE		12/13/95		12/15/95
	125.01	STOCKPILE		12/13/95		12/15/95
374	126.01	STOCKPILE		12/13/95		12/15/95
374	127.01	STOCKPILE		12/13/95		12/15/95
374	128.01	STOCKPILE		12/13/95		12/15/95
374	129.01	STOCKPILE		12/13/95		12/15/95
	130.01	STOCKPILE		12/13/95		12/15/95
	131.01	STOCKPILE		12/13/95		12/15/95
	132.01	STOCKPILE		12/13/95		12/15/95
	133.01	STOCKPILE		12/13/95		12/15/95
	134.01	STOCKPILE		12/13/95		12/15/95
374	135.01	STOCKPILE		12/13/95		12/15/95
	136.01	STOCKPILE		12/13/95		12/15/95
374	137.01	STOCKPILE	#19	12/13/95		12/15/95

JOB NUMBER : 9502.874

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

CL	Ι	ENT
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		CTTEMI				
-	SAMPLE	SAMPLE		DATE	DATE	DATE
	NUMBER	ID		SAMPLED	EXTRACTED	ANALYZED
SOI	LIDS-TOTAL	L (MET)	-S			
5	37438.01	STOCKPILE	#20	12/13/95		12/15/95
3	37439.01	STOCKPILE	#21	12/13/95		12/15/95
3	37440.01	STOCKPILE	#22	12/13/95		12/15/95
3	37441.01	STOCKPILE	#23	12/13/95		12/15/95
3	37442.01	STOCKPILE	#24	12/13/95		12/15/95
TCI	LP - LEAD	(ICI	?)-S			
3	37418.01	STOCKPILE	#1	12/13/95	12/22/95	12/22/95
3	37419.01	STOCKPILE	#2	12/13/95	12/22/95	12/22/95
3	37425.01	STOCKPILE	#8	12/13/95	12/22/95	12/22/95
3	37428.01	STOCKPILE	#11	12/13/95	12/22/95	12/22/95
3	37430.01	STOCKPILE	#13	12/13/95	12/22/95	12/22/95
3	37431.01	STOCKPILE	#13-2	12/13/95	12/22/95	12/22/95
3	37433.01	STOCKPILE	#15	12/13/95	12/22/95	12/22/95
3	37434.01	STOCKPILE	#16	12/13/95	12/22/95	12/22/95
3	37435.01	STOCKPILE	#17	12/13/95	12/22/95	12/22/95
3	37436.01	STOCKPILE		12/13/95	12/22/95	12/22/95
3	37439.01	STOCKPILE	#21	12/13/95	12/22/95	12/22/95
3	37440.01	STOCKPILE	#22	12/13/95	12/22/95	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-95-374 STOCKPILE	#1	84	
EE-95-374 STOCKPILE	19 #2	88	
EE-95-374 STOCKPILE	20 #3	79	
EE-95-374: STOCKPILE	21 #4	85	
EE-95-3742 STOCKPILE	22 #5	80	
EE-95-3742 STOCKPILE	23 #6	80	
EE-95-3742 STOCKPILE	24	91	
EE-95-3742 STOCKPILE	#8	86	
EE-95-3742 STOCKPILE	26 #9	66	
EE-95-3742 STOCKPILE	27 #10	81	
EE-95-3742 STOCKPILE	#11	80	
EE-95-3742 STOCKPILE	9 #12	71	
EE-95-3743 STOCKPILE	0	77	

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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 J = ESTIMATED		ND = NOT DETECTED

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

9502.874

(क्ष)
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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

%SOLIDS : 83 %

RESULTS IN DRY WEIGHT
SAMPLE ID LAB : EE-95-37418 MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #1

RESULTS Q QNT. LIMIT UNITS PARAMETER

6.0 MG/KG Lead 700

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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

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

SAMPLE ID CLIENT: STOCKPILE #4

MATRIX: SOLID

PARAMETER

RESULTS

Q QNT. LIMIT UNITS

- -----

Lead

65

5.9 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 80 %

RESULTS IN DRY WEIGHT
SAMPLE ID LAB : EE-95-37422 MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #5

RESULTS Q QNT. LIMIT UNITS PARAMETER _____

220 6.2 MG/KG Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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-95-37424 %SOLIDS : 91 % MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #7

PARAMETER RESULTS Q QNT. LIMIT UNITS -----_____

150 5.5 MG/KG Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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 SAMPLE ID CLIENT: STOCKPILE #9 MATRIX: SOLID

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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 %

MATRIX: SOLID

SAMPLE ID LAB : EE-95-37427 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

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 %

RESULTS IN DRY WEIGHT
SAMPLE ID LAB : EE-95-37428 MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #11

RESULTS Q QNT. LIMIT UNITS PARAMETER

_____ Lead 2600 6.2 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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 %

RESULTS IN DRY WEIGHT
SAMPLE ID LAB : EE-95-37430 MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #13

RESULTS Q QNT. LIMIT UNITS PARAMETER

Lead 2100 6.5 MG/KG

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

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

: SD-6000 ERNST STEEL CLIENT

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

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 78 %

RESULTS IN DRY WEIGHT
SAMPLE ID LAB : EE-95-37432 MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #14

RESULTS Q QNT. LIMIT UNITS PARAMETER

6.4 MG/KG Lead 220

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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 %

RESULTS IN DRY WEIGHT
SAMPLE ID LAB : EE-95-37434 MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #16

RESULTS Q QNT. LIMIT UNITS PARAMETER _____

870 Lead 6.5 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT

: SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

PARAMETER

%SOLIDS : 82 %

SAMPLE ID LAB : EE-95-37435

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #17

RESULTS Q QNT. LIMIT UNITS

Lead

-----2200

- -------

6.1 MG/KG

J = ESTIMATED VALUE QUALIFIERS: C = COMMENT

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-95-37436 RESULTS IN DRY WEIGHT

PARAMETER

%SOLIDS : 78 %

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #18

RESULTS Q QNT. LIMIT UNITS

Lead

640

6.4 MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

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

Q QNT. LIMIT UNITS

_____ Lead

_____ 480

RESULTS

- ------- .---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 SAMPLE ID LAB : EE-95-37438 %SOLIDS : 80 %

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #20

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

METALS SECTION JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

: SD-6000 ERNST STEEL CLIENT

RESULTS IN DRY WEIGHT %SOLIDS : 81 %

SAMPLE ID LAB : EE-95-37439 MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #21

RESULTS Q QNT. LIMIT UNITS PARAMETER

2400 6.2 MG/KG Lead

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

JOB NUMBER :9502.874

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT RESULTS IN DRY WEIGHT
SAMPLE ID LAB : EE-95-37440
SAMPLE ID CLIENT: STOCKPILE #22

PARAMETER

%SOLIDS : 79 %

MATRIX: SOLID

RESULTS Q QNT. LIMIT UNITS

-----Lead

760

6.3 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

JOB NUMBER :9502.874 METALS SECTION

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
SAMPLE ID CLIENT: STOCKPILE #24 MATRIX: SOLID

RESULTS Q QNT. LIMIT UNITS PARAMETER _____

120 7.0 MG/KG Lead

ND = NOT DETECTED QUALIFIERS: C = COMMENT

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 37442	78.7 86.8	228 28.2	97.4* 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 37442	78.7 86.8	303 97.1	50 50	449* 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

,	/ 1				4.5
(mq	/kq	as	rec	cel	ved)

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.

(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.

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

ND

5.0 MG/KG

Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

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

QUANTITATION REGULATORY

PARAMETER RESULTS Q LIMIT LEVEL

Lead 2.0 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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 MATRIX: SOLID SAMPLE ID CLIENT: STOCKPILE #2 UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER RESULTS Q LIMIT LEVEL
Lead 4.4 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

QUANTITATION REGULATORY

PARAMETER RESULTS Q LIMIT LEVEL

Lead 13 0.15 5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

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

QUANTITATION REGULATORY

RESULTS Q LIMIT LEVEL PARAMETER -----------____

0.73 0.15 5.0 Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

J = ESTIMATED VALUE

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

: SD-6000 ERNST STEEL

SAMPLE ID LAB :EE-95-37430

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #13

UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL

Lead

4.5

0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

: SD-6000 ERNST STEEL CLIENT

SAMPLE ID LAB :EE-95-37431 MATRIX: SOLID SAMPLE ID CLIENT: STOCKPILE #13-2 UNITS : MG/L

QUANTITATION REGULATORY RESULTS Q LIMIT LEVEL PARAMETER

-----2.0 Lead 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

MATRIX: SOLID SAMPLE ID LAB :EE-95-37433 SAMPLE ID CLIENT: STOCKPILE #15 UNITS : MG/L

QUANTITATION REGULATORY

RESULTS Q LIMIT LEVEL PARAMETER _____

1.8 0.15 5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB :EE-95-37434

SAMPLE ID CLIENT: STOCKPILE #16

MATRIX: SOLID

UNITS : MG/L

QUANTITATION REGULATORY RESULTS Q LIMIT LEVEL PARAMETER

Lead

1.6

0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

QUANTITATION REGULATORY

PARAMETER RESULTS Q LIMIT LEVEL

Lead 1.7 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

ND

SAMPLE ID LAB :EE-95-37436

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE #18

UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER

RESULTS

Q LIMIT LEVEL

------0.15

5.0

Lead

QUALIFIERS: C = COMMENT J = ESTIMATED VALUE

ND = NOT DETECTED

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB :EE-95-37439 MATRIX: SOLID UNITS : MG/L SAMPLE ID CLIENT: STOCKPILE #21

QUANTITATION REGULATORY

RESULTS Q LIMIT LEVEL PARAMETER -----_____

1.3 0.15 Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

: SD-6000 ERNST STEEL CLIENT

SAMPLE ID LAB :EE-95-37440 MATRIX: SOLID SAMPLE ID CLIENT: STOCKPILE #22 UNITS : MG/L

QUANTITATION REGULATORY

RESULTS Q LIMIT LEVEL PARAMETER

______ ----------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)		
Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead	37440	ND	ND	NC

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

LABORATORY CONTROL SAMPLE (156)

9502.874

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ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY	
Lead	988	1000	98.8	and the second s

LABORATORY CONTROL SAMPLE (160)

9502.874

(uq	/	L)
٠,		•	_	,

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY	
Lead	1080	1000	108	_

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

SAMPLE ID LAB : METHOD BLANK (156) MATRIX: SOLID

ND

UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL

Lead

0.15

5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

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

QUANTITATION REGULATORY

PARAMETER RESULTS Q LIMIT LEVEL

- ----------Lead ND 5.0 0.15

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

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ecology and environment, inc. QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 4502,880		Date: 679
Report Title: Client: ERNST	STEEL	
Laboratory Data Review	Supervisor	Date
Metals		12/27/95
Gen. Chem.		,
GC		
GC/HS		
Micro, Asbestos		
Other		
	Signature	Date
Report Written by:	- V1K	<u> 196719</u>
1st Draft Reviewed by:		DD719
2nd Draft Reviewed by: (If needed)		
Final Review by Author:		
ASC Manager:	- 176h	12.27 5
QA Officer:	A , $a \sim \frac{1}{5}$	
QA Officer: Corp. Project Manager:	TUDELS	
All QA Protocol Review Forms Signed and in File (to be signed by report writer)	Λ	
Copies of Report Sent to:	ME ALBERS YK	12/27/95
Invoices Sent to Accounting		12/27/9

MEMORANDUM

TO:

Dave Albers

FROM:

Gary Hahn

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

Coology 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

(D No			· · · · · · · · · · · · · · · · · · ·							
SD-6050 FIN Samplers: (Signatures)	STSTEEL	_ site	Project Manager	E Albasia	35 K- 240	4				X////
Samplers: (Signatures)			Field Team Lead	der:				,	(100	
Die mark		2-14-95	G. 17.	PAXWELL	_ F/E	<u> </u>			9/	REMARKS
lav. v. av.	SAMPLE TYPE	SAMPLE INFORMATION	P100010	STATION	LOCATION	NUMBER OF			//	///
NUMBER DATE TIME	R EXE	PECTED COMPOUNDS (Concentration	}•			CON- TAINERS	//	V / /	//	
1714 10:05		WHARK /1517	نين (ليه	Stockble	#25 W	VI	X			
2 5 10:15	<u> X </u>			<u> </u>	#26	1	X			
3 (10:17)	X				#26-2	1	X			MB/MSD SAMPLE (26-2)
5 (0:30)	X	/		l/	#27	1	X _		<u> </u>	
3 (0.30	X			<u> </u>	#28	2	X_{-}	_ _ _		
G / 0'.55				l(#29	1				
2) 0.40	X	***************************************)	#30	1	X_			
8 50:45	X			/	#3/	1	X.		<u> </u>	
9 / [11:3]	$ \times $)	#32	1	X_{\perp}			
10 1:42	X		make Almos to the designation of the substances, according to the	l (# 33	1	X_{μ}		ļļ	
// \ \ h:47	X		W PROPER THE MARKET CONTINUES AND THE	 	#34	1 1	X _			
12 (1:30	<u> </u>	<u> </u>		<u>\</u>	#35	1	X_{\perp}			
13 5 1:15	\text{\ti}\}\\ \text{\tin}\}\\ \text{\te}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\texi}\text{\text{\texi}\text{\text{\text{\texi}\text{\text{\texi}\text{\texi}\text{\text{\texi}\text{\texi}\text{\texi}\text{\texi}\text{\text{\texi}\text{\text{				#36	1	Χ,	<u> </u>		
14 4 11:17		<u> </u>	1		136-Z	1	X			Ma/MSD SAMPLE (36-2)
Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By		Date/Time:	Received				Ship Via: Ma
Relinquished By: (Signature)	Date/Time:	Received By (Signature)	Relinquished By	: (Signature)	Date/Time:	Received	By∶(Sig	nature)		BL/Airbill Number:
Relinquished By: (Signature)	Date/Time: 12-14-95/12/5	Received For Laboratory By: (Signature)	Relinquished By	r: (Signature)	Date/Time:	Received (Signatur		oratory By:		Ma Dave: 1Z-1/2-95

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9502.880

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

Ç	L	ıΙ	ΕN	r_T
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		CLIENT				
-	SAMPLE	SAMPLE		DATE	DATE	DATE
	NUMBER	ID		SAMPLED	EXTRACTED	ANALYZED
LEA	AD	(ICP)) -S		•	
2	37491.01	STOCKPILE#	25	12/14/95	12/15/95	12/18/95
3	37492.01	STOCKPILE#	26	12/14/95	12/15/95	12/18/95
3	37493.01	STOCKPILE#	27	12/14/95	12/15/95	12/18/95
3	37494.01	STOCKPILE#	28	12/14/95	12/15/95	12/18/95
3	37495.01	STOCKPILE#	29	12/14/95	12/15/95	12/18/95
3	37496.01	STOCKPILE#	30	12/14/95	12/15/95	12/18/95
3	37497.01	STOCKPILE#	31	12/14/95	12/15/95	12/18/95
3	37498.01	STOCKPILE#	32	12/14/95	12/15/95	12/18/95
3	37499.01	STOCKPILE#	33	12/14/95	12/15/95	12/18/95
3	37500.01	STOCKPILE#	34	12/14/95	12/15/95	12/18/95
3	37501.01	STOCKPILE#	35	12/14/95	12/15/95	12/18/95
3	37502.01	STOCKPILE#	36	12/14/95	12/15/95	12/18/95
SOI	LIDS - TOTA	L (MET)	-S			
3	37491.01	STOCKPILE#	25	12/14/95		12/15/95
3	37492.01	STOCKPILE#	26	12/14/95		12/15/95
3	37493.01	STOCKPILE#	27	12/14/95		12/15/95
3	37494.01	STOCKPILE#	28	12/14/95		12/15/95
3	37495.01	STOCKPILE#	29	12/14/95		12/15/95
3	37496.01	STOCKPILE#		12/14/95		12/15/95
3	37497.01	STOCKPILE#	31	12/14/95		12/15/95
3	37498.01	STOCKPILE#	32	12/14/95		12/15/95
3	37499.01	STOCKPILE#	33	12/14/95		12/15/95
3	37500.01	STOCKPILE#	34	12/14/95		12/15/95
3	37501.01	STOCKPILE#	35	12/14/95		12/15/95
3	37502.01	STOCKPILE#	36	12/14/95		12/15/95
TCI	JP - LEAD	(ICP)) -S			
3	37491.01	STOCKPILE#	25	12/14/95	12/22/95	12/23/95
3	37492.01	STOCKPILE#	26	12/14/95	12/22/95	12/23/95
3	37494.01	STOCKPILE#	28	12/14/95	12/22/95	12/23/95
3	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	NI) = NOT DETECTED

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

9502.880

		(왕)		
Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	37495	80.7	77.1	4.5

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

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 SAMPLE ID CLIENT: STOCKPILE# 25

MATRIX: SOLID

PARAMETER

RESULTS

Q QNT. LIMIT UNITS ----- Q QNI. HIMII ONIIS

Lead

640

6.7 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

JOB NUMBER :9502.880

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 73 %

RESULTS IN DRY WEIGHT
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

METALS SECTION JOB NUMBER :9502.880

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

: SD-6000 ERNST STEEL CLIENT

RESULTS IN DRY WEIGHT %SOLIDS : 85 %

SAMPLE ID LAB : EE-95-37493 MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 27

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

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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-95-37494

%SOLIDS : 79 %

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

JOB NUMBER :9502.880

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-95-37495 SAMPLE ID CLIENT: STOCKPILE# 29

MATRIX: SOLID

PARAMETER

RESULTS Q QNT. LIMIT UNITS

Lead

1900

6.2 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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 %

MATRIX: SOLID

SAMPLE ID LAB : EE-95-37496

SAMPLE ID CLIENT: STOCKPILE# 30

PARAMETER

RESULTS Q QNT. LIMIT UNITS

Lead

42

6.8 MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

JOB NUMBER :9502.880

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT

: SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

PARAMETER

%SOLIDS : 72 %

SAMPLE ID LAB : EE-95-37497

MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 31

RESULTS Q QNT. LIMIT UNITS

Lead

210

6.9 MG/KG

QUALIFIERS: C = COMMENT

_ _ COMMENT ND = NOT DETECTED

J = ESTIMATED VALUE

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-95-37498

%SOLIDS : 74 %

SAMPLE ID CLIENT: STOCKPILE# 32

MATRIX: SOLID

PARAMETER

RESULTS Q QNT. LIMIT UNITS

Lead

420

6.8 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

JOB NUMBER :9502.880

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

: SD-6000 ERNST STEEL

RESULTS IN DRY WEIGHT

%SOLIDS : 77 %

SAMPLE ID LAB : EE-95-37499 SAMPLE ID CLIENT: STOCKPILE# 33

MATRIX: SOLID

PARAMETER

RESULTS Q QNT. LIMIT UNITS

Lead

100

6.5 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

J = ESTIMATED VALUE

JOB NUMBER :9502.880

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 69 % MATRIX: SOLID RESULTS IN DRY WEIGHT

RESULTS IN DRY WEIGHT
SAMPLE ID LAB : EE-95-37500
SAMPLE ID CLIENT: STOCKPILE# 34

RESULTS Q QNT. LIMIT UNITS PARAMETER

180 7.2 MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

JOB NUMBER :9502.880 ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

%SOLIDS : 73 %

RESULTS IN DRY WEIGHT
SAMPLE ID LAB : EE-95-37502 MATRIX: SOLID

SAMPLE ID CLIENT: STOCKPILE# 36

RESULTS Q QNT. LIMIT UNITS PARAMETER _____

6.8 MG/KG Lead 130

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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 37502	472 92.5	512 82.3	8.1 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 37502	472 92.5	495 198	50 50	4X 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

109

(mg/kg as received)					
Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery

37502 92.5 295 185

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

Lead

LABORATORY CONTROL SAMPLE (135)

9502.880

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AN				PERCENT RECOVERY
Le	ead	1080	1000	108

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

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : SD-6000 ERNST STEEL

MATRIX: SOLID UNITS : MG/L SAMPLE ID LAB :EE-95-37491 SAMPLE ID CLIENT: STOCKPILE# 25

QUANTITATION REGULATORY

RESULTS Q LIMIT LEVEL PARAMETER _____ 0.51 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

J = ESTIMATED VALUE

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

: SD-6000 ERNST STEEL CLIENT

SAMPLE ID LAB :EE-95-37492 MATRIX: SOLID SAMPLE ID CLIENT: STOCKPILE# 26 UNITS : MG/L

QUANTITATION REGULATORY PARAMETER RESULTS Q LIMIT LEVEL

----------- -----0.15 Lead 1.2 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

J = ESTIMATED VALUE

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

QUANTITATION REGULATORY

PARAMETER RESULTS Q LIMIT 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 MATRIX: SOLID SAMPLE ID CLIENT: STOCKPILE# 29 UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER RESULTS Q LIMIT LEVEL

Lead 0.96 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

J = ESTIMATED VALUE

(ug/	L)		
		 	

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT	
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

QUANTITATION REGULATORY

PARAMETER

RESULTS

Q LIMIT 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

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

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Sample ID (LAB)

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID #1 (CUST)

Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

7915

Pile #1

Grab#1

Soil

Russ Savage

01/15/96

01/15/96 04:45

01/16/95

01/19/96

Results Det Limit*

Lead

0.15 0.05 Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method:

EPA 6010 ICP; AA/Cold Vapor

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Tel: (800) 843-5227

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CRITTENDEN, NY 14038

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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

while Sec &

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID (LAB)

Sample ID #1 (CUST) Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

7916

Pile#1

Grab # 2

Soil

Russ Savage

01/15/96

01/15/96 04:45

01/16/95

01/19/96

Det Limit* Results

Lead

0.07 0.05 Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

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

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID (LAB)

Sample ID #1 (CUST) Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

7917

Pile #1 Grab#3

Soil

Russ Savage

01/15/96

01/15/96 04:45

01/16/95

01/19/96

Results Det Limit*

Lead

0.14 0.05 Results shown are:

Extraction Method:

TCLP Metals

Closed Cup Extraction for 18 hrs

Analysis Method:

EPA 6010 ICP; AA/Cold Vapor

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

Jullian Sout

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID (LAB) Sample ID #1 (CUST)

Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

7918 Pile #1

Grab#4

Soil

Russ Savage

01/15/96

01/15/96 04:45

01/16/95

01/19/96

Results Det Limit*

Lead

0.37 0.05 Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

EPA 6010 ICP; AA/Cold Vapor Analysis Method:



TPH GASOLINE

8 RCRA METALS (DIRECT)

TPH DIBSEL 8240 - 1 8260 (Stars)

8260

602

624

TOX LEAD ONLY



Middlesex NY 14507

FAX 1-716-554-4114

WORNUNDER

CIFI

TCLP SEMI-VOLATILES

8 RCRA METALS (TCLP)

HERBICIDES

PESTICIDES

REACTIVITY

CORROSIVITY

VIRONMENTAL SOILS TESTS NY STATE CERTIFIED LAB #11369

CITY:	IWEC+C, 553 Critte ittenden,1	Inc nden Rd. 14 14038	PO NUMBEI PROJECT NO PROJECT CI	O: UST:			
STATE/ZIP: PHONE: G10 FAX: CONTACT: LS	937-65 937-93 Savage/G.	27 60 Weber	PROJECT SI SEND RESU PHONE RES	LTS: β	YFAX DEXI DYES DNC		lde
	SAMPLE I	DEMOGRAPI	HICS AND TE	STS RE	EQUIRED		
8020 BTEX + MTBE 8021 + MTBE	8270 (Stars) 625 PCB'S	FULL TCLP TCLP LESS HERBS (PESTS	I	LIST ANALY	SIS REQUIR	ED

(DIESEL)

	FLASH POINT	(GAS OR OIL)
	SUSP	ECT :
SPECIAL INSTRUCTIONS:	ASAP TUCKAC	ound .
_		

DATE TIME SAMPLE DESCRIPTION / LOCATION / MATRIX VILE #16106 # 1 Pile #1 60ab

0

CHAIN OF CUSTODY RECORD

# of SAMPLES # of CONTAINERS	(500 mm 5)
SAMPLED BY: News Sulma	SAMPLES RECEIVED BY: MILLIAN TO SALL SALL
SIGNATURE.	SIGNATURE:
NAME: NAME THE	NAME:
DATED: / / 'TIME::	DATE: //15/96 TIME::
HOW SENT: DEXP MAIL DHAND CARRY	HOW RECD: DEXP MAIL DHAND CARRY
SIGNATURE 2: W. s. (W)	FREIGHT IN: \$
NAME 2: Gira Weber	LOGGED IN: / //5/9 (2 TIME: 41:45)
DATED 2: / /14/56 TIME: 3:28	SAMPLE COND:SAMPLE TEMP:
HOW SENT 2: □EXP MAIL □HAND CARRY	LAB NOTES:

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

expwo20doc.

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:

01/17/96

Lab Director Sylu

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Sample ID (LAB)

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

7919

Sample ID #1 (CUST) Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

Pile#2

Comp#1

Soil

Russ Savage

01/16/96 NA

04:45 01/16/96

01/17/96

01/17/96

Results Det Limit*

Lead

0.15 0.05 Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method:

EPA 6010 ICP; AA/Cold Vapor

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:

01/17/96

Lab Director With Say in

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

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 Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method:

EPA 6010 ICP; AA/Cold Vapor

Tel: 1-716-554-5347

Tel: 1-800-THE LABS

Tel: 1-800-843-5227

F.4X 1-716-554-4114

WORKORDER NYSTATE CERTIFIED I IN CONTROLLS TESTS

WORDER 1115	
CUSTOMER: NWEC+C, Inc. ADDRESS: 3553 Crittenden Rd CITY: Crittenden, NY 14038 STATE/ZIP: PHONE: (716) 937-6527 FAX: 931-9360 CONTACT: R. Savage / G. Weber	PO NUMBER: PROJECT NO: PROJECT CUST: PROJECT SITE: Benderson/1746 Walden SEND RESULTS: DFAX DEXPR MAIL PHONE RESULTS: D YES D NO
SAMPLE DEMOGRAPHI	CS AND TESTS REQUIRED
DATE TIME SAMPLE DESCRIPTION/LOCA	(DIESEL) (GAS OR OIL) CCT: TION / MATRIX
CHAIN OF CU	STODY RECORD
SIGNATURE: NAME: DATED: ////// TIME::_ DATED: HOW SENT: DEXP MAIL DHAND CARRY HOSIGNATURE 2: FE	AMPLES RECEIVED BY: GNATURE: AME: ATE: / / TIME: OW RECD: DEXP MAIL DHAND CARRY REIGHT IN: \$ OGGED IN: / / TIME: AMPLE COND: SAMPLE TEMP: AB NOTES:

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

expwo20doc.

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

TCLP Metals

*See Individual Limits

Extraction Method:

Closed Cup Extraction for 18 hrs

Sample ID (LAB)

Sample ID #1 (CUST) Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

7921

Pile # 4

Soil

Russ Savage

01/17/96

NA 01/16/96 05:20

01/18/96

01/18/96

Results shown are:

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Original:

Det Limit* Results

Lead

0.68 0.05

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

> Det Limit* Results

Lead

0.39 0.05 7921 FARM LAB

HE LABS

Tel: 1-800-843-5227

FAX 1-716-554-4114

WUKKUKDEK

SPECIAL INSTRUCTIONS: QUICE TORN AROUND (4 M)

DATE TIME SAMPLE DESCRIPTION / LOCATION / MATRIX

NYS

SPECIALIZING IN ENVIRONMENTAL SOILS TESTS
NY STATE CERTIFIED LAB #11369

ADDRESS:CITY:STATE/ZIP:PHONE:FAX:CONTACT	3553 CRIT CRITTEN DEN NY 14004 (716) 937- RUCC SAVAGE G	LS27 CS27 REG WEGER	PO NUMBER: PROJECT NO: PROJECT CUST: PROJECT SITE: SEND RESULTS: PHONE RESULTS:	
8020 BTEX + MTBE 8021 + MTBE 503.1 TPH GASOLINE TPH DIESEL 8240 8260 (Stars) 8260 8 RCRA METALS (DIR	8270 (Stars) 625 PCB'S 602 624 TOX LEAD ONLY	FULL TCLP TCLP LESS HERBS & PES TCLP VOLATILES TCLP SEMI-VOLATILES 8 RCRA METALS (TCLP) HERBICIDES PESTICIDES REACTIVITY CORROSIVITY FLASH POINT SUSPEC	(DIESEL) (GAS OR OIL)	LIST ANALYSIS REQUIRED

CHAIN OF CUSTODY RECORD

# of SAMPLES / # of CONTAINERS (250	n(1)
SAMPLED BY: RECEIVED A	SAMPLES RECEIVED BY: Lypress huly
SIGNATURE: COLONIA COL	SIGNATURE: Callery Weyline
NAME:	NAME:
DATED: / / TIME::	DATE: (//?/96 TIME: () :20
HOW SENT: □EXP MAIL □HAND CARRY	HOW RECD: □EXP MAIL □HAND CARRY
SIGNATURE 2:	FREIGHT IN: \$
NAME 2:	LOGGED IN: $\sqrt{\frac{11719}{6}}$ TIME: $\frac{5}{3}$
DATED 2: / / TIME::	SAMPLE COND:SAMPLE TEMP:
HOW SENT 2: □EXP MAIL □HAND CARRY	LAB NOTES:

White-Lab, Yellow-Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

expwo20doc.

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

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID #1 (CUST)

Sample ID (LAB)

Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

7929

Treated Soil Pile

#5 Composite

Soil

Brian O' Donnell

01/18/96 01:30

04:55 01/18/96

01/19/96

01/19/96

Results Det Limit*

Lead

0.86 0.05 Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method:

EPA 6010 ICP; AA/Cold Vapor

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 What San a

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

Results shown are:

TCLP Metals

*See Individual Limits

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

7930

Treated Soil Pile

#6 Composite

Soil

Brian O' Donnell

01/18/96 01:40

01/18/96 04:55

01/19/96

01/19/96

Results Det Limit*

Lead

0.18 0.05 x 40 3611 Water Street

Middlesex NY 1450-

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 ADDRESS: 7553 CRITTENDEN RD CITY: CRITTENDEN NO 141004 STATE/ZIP: PHONE: (716) 937 - 6527 FAX: CONTACT: RUSS GAVAGE GREG DEBER PO NUMBER: PROJECT NO: PROJECT CUST: PROJECT SITE: RENDERSON / WALDEN AVE SEND RESULTS: SEND RESULTS: DYES DNO
STATE/ZIP: PHONE: (7)6) 937 - 6527 FAX: PROJECT SITE: RENDERSON WALDEN AND SEND RESULTS: XFAX DEXPR MAIL
PHONE: (७)७ १३७ - ७५२७ FAX: SEND RESULTS: ☑FAX □EXPR MAIL
FAX: SEND RESULTS: ☑FAX □EXPR MAIL
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)
REACTIVITY
8 RCRA METALS (DIRECT) CORROSIVITY (DIESEL) FLASH POINT (GAS OR OIL)
SUSPECT:
SPECIAL INSTRUCTIONS: A.M. TURIARUMO 2
DATE TIME SAMPLE DESCRIPTION / LOCATION / MATRIX
1111 % 1:30 TREATED SOIL PILE # 5 COMPOSITE
11/96 140 TREATED SOIL PILE #6 COMPOSITE
<u> </u>
CHAIN OF CUSTODY RECORD
of SAMPLES 2 # of CONTAINERS 2 (150 m/S)
SAMPLED BY: B. O'Runnell SAMPLES RECEIVED BY: Expression
SIGNATURE: (B) SIGNATURE: Oliver Keppen
NAME: NAME:
DATED: // TIME: _: DATE: 1/18/9 TIME: 4:55 HOW SENT: DEXP MAIL WHAND CARRY HOW RECD: BEXP MAIL WHAND CARRY
TOW SERVE.
NAME 2: LOGGED IN: 1/18/94 TIME: 5:00
DENIEL 4. LOTON HOLDEN
DATED 2: 1/15/96 TIME: _:_ SAMPLE COND:SAMPLE TEMP:

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

expwo20doc.

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 Villa J

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

7957

PILE #7 COMP

SOIL

R.J. SAVAGE

01/29/96 01:45

01/29/96 05:40

01/31/96

02/09/96

Det Limit* Results

Lead

0.36 0.05

Information used for TCLP fliud determination:

Initial pH

9.78

Final pH

1.99

pH of TCLP Fluid #1:

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.

Closed Cup Extraction for 18 hrs EPA 6010 ICP; AA/Cold Vapor

Date FAXED:

02/09/96

Results shown are:

Extraction Method:

Analysis Method:

Lab Director Willia So a

TCLP Metals

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Sample ID (LAB)

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID #1 (CUST) Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

7958

PILE#8

SOIL

R.J. SAVAGE

01/29/96 01:45

05:40

01/29/96 01/31/96

02/09/96

Results Det Limit*

Lead

0.51 0.05

Information used for TCLP fliud determination:

Initial pH

8.86

Final pH

1.87

pH of TCLP Fluid #1:

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.

Closed Cup Extraction for 18 hrs

EPA 6010 ICP; AA/Cold Vapor

Date FAXED:

02/09/96

Results shown are:

Extraction Method:

Analysis Method:

Lab Director Willin So a

TCLP Metals

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID (LAB)

Sample ID #1 (CUST)

Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

7959

PILE #9

SOIL

R.J. SAVAGE

01/29/96 01:45

01/29/96 05:40

01/31/96

02/09/96

Results Det Limit*

Lead

0.20 0.05

Information used for TCLP fliud determination:

Initial pH

7.82

Final pH

1.82

pH of TCLP Fluid #1:

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.

Closed Cup Extraction for 18 hrs

EPA 6010 ICP; AA/Cold Vapor

Date FAXED:

02/09/96

Results shown are:

Extraction Method:

Analysis Method:

Lab Director William Age (1)

TCLP Metals

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID (LAB)

Sample ID #1 (CUST) Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

7960

PILE #10

SOIL

R.J. SAVAGE

01/29/96 01:45

01/29/96 05:40

01/31/96

02/09/96

Results Det Limit*

Lead 1.16 0.05

Information used for TCLP fliud determination:

Initial pH

8.96

Final pH

1.97

pH of TCLP Fluid #1:

4.97

RESULTS WHEN YOU WANT THEM

METTCLPA.WK4

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:

01/31/96

Lab Director Millh Sw W

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

7961 PILE # 11

R.J. SAVAGE

01/29/96

01/29/96

01/31/96

Results

SOIL

*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

01/31/96

03:00

05:40

Det Limit*

Lead

0.34 0.05

Information used for TCLP fliud determination:

Initial pH

8.43

Final pH

1.98

pH of TCLP Fluid #1:

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

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

7962

PILE #9

SOIL

R.J. SAVAGE

01/29/96 01:45

05:40 01/29/96

01/31/96 02/09/96

Det Limit* Results

Lead

0.69 0.05

Information used for TCLP fliud determination:

Initial pH

8.33

Final pH

1.90

pH of TCLP Fluid #1:

		7952 Militari
WORKORDER NYS MYST	HTE CERTI	FTED LAU #11202
CUSTOMER: A/LUFE CF PO NUMBER: ADDRESS: PROJECT NO PROJECT CUSTATE/ZIP: PROJECT SIT PHONE: FAX: SEND RESULT TO NUMBER: PROJECT NO PROJECT SIT PROJECT SIT PROJECT SIT	: ST:	746 WACKEN PERTED SOIC WOLLD MAIL
SAMPLE DEMOGRAPHICS AND TES	TS REQ	UIRED
3020 BTEX + MTBE 8270 (Stars) FULL TCLP 8021 + MTBE 625 TCLP LESS HERBS & PESTS 503.1 PCB'S TCLP SEMI-VOLATILES TPH OASOLINE 602 TCLP SEMI-VOLATILES TPH DIESEL 8240 TOX HERBICIDES 8260 (Stars) REACTIVITY CORROSIVITY FLASH POINT GAS OR OIL) SPECIAL INSTRUCTIONS: EXTRACT FINAL SUSPECT: DATE TIME SAMPLE DESCRIPTION / LOCATION / MATRIX FILE TYPH DIESEL 12 JAPAN TOX MATRIX TOX MATRIX TOX TOX HERBICIDES REACTIVITY CORROSIVITY (DIESEL) SUSPECT: TOX TOX TOX TOX TOX HERBICIDES REACTIVITY TOX FLASH POINT TOX TOX TOX TOX TOX TOX TOX T		T ANALYSIS REQUIRED
CHAIN OF CUSTODY REC	ORD	
The state of the s	1/2896 DEXP MAIL	TIME: S: 90 AMPLE TEMP: 4/

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

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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

Closed Cup Extraction for 18 hrs EPA 6010 ICP; AA/Cold Vapor

Date FAXED:

02/05/96

Results shown are:

Extraction Method:

Analysis Method:

Lab Director Willa Sign W

TCLP Metals

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID (LAB)

Sample ID #1 (CUST)

Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

7986

Pile #12

Composite

Soil

Russ Savage

02/01/96 01:00

02/01/96 04:50

02/05/96

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

RESULTS WHEN YOU WANT THEM

METTCLPA.WK4

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (800) THE LABS

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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

716-937-9360

PO Number:

Project Number:

Project Cust:

Project Site:

1746 Walden/Treated Soil

Closed Cup Extraction for 18 hrs

EPA 6010 ICP; AA/Cold Vapor

Date FAXED:

02/05/96

Lab Director

Results shown are:

Extraction Method:

Analysis Method:

TCLP Metals

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID (LAB)

Sample ID #1 (CUST) Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

7987

Pile #13

Composite

Soil

Russ Savage

02/01/96 01:00

02/01/96 04:50

02/05/96

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

RESULTS WHEN YOU WANT THEM

METTCLPA.WK4

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

F.4X: (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 Will Son 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

7988

Pile #14

Composite Soil

Russ Savage

01:00 02/01/96

02/01/96 04:50

02/05/96

02/05/96

Det Limit* Results

Lead

1.33 0.05

pH of TCLP Fluid #1 and Sample:

Before Tumbling

5.11

After Tumbling

PO Box 40 5611 Water Street Middlesex NY 14507

<u>Tel: (716) 554-5347</u>

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

Closed Cup Extraction for 18 hrs

EPA 6010 ICP; AA/Cold Vapor

Date FAXED:

02/05/96

Lab Director

Results shown are:

Extraction Method:

Analysis Method:

Uh Sen W

TCLP Metals

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

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

Det Limit* Results

Lead

0.77 0.05

pH of TCLP Fluid #1 and Sample:

Before Tumbling

5.12

After Tumbling

7986 7987 7988 798	39 KANILLA	FAX 1-716-554-4114 DNMENTAL SOILS LENTS FIED LAB #11369
CUSTOMER: WEC+C ADDRESS: CITY: STATE/ZIP: PHONE: FAX: CONTACT:	PHONE RESULTS:	1746 WALDEN TREATED SOIL FAX DEXPRIMAIL YES DINO
SAMPLE DEMOGRAPHIC	CS AND TESTS REC	QUIRED
8020 BTEX + MTBE 8270 (Stars) FULL TCLP		ST ANALYSIS REQUIRED
8021 + MTBE 503.1 PCB'S TCLP LESS HERBS & PES TCLP VOLATILES TPH GASOLINE 602 TCLP SEMI-VOLATILES TPH DIESEL 624 8 RCRA METALS (TCLP) 8240 TOX HERBICIDES 8260 (Stars) 8 RCRA METALS (DIRECT) CORROSIVITY FLASH POINT SUSPECIAL INSTRUCTIONS: CANTOL FINAL DATE TIME SAMPLE DESCRIPTION/LOCAT ALITA // 0 PTLE // Comp PTLE // Comp PTLE // Comp PTLE // Comp	(DIESEL) (GAS OR OIL) T: Emm	
CHAIN OF CUS	TODY RECORD	
SIGNATURE: SIGNAME: NAME: NAME	TE: W RECD: DEXP MAI SIGHT IN: SGED IN: APLE COND: NOTES:	EXPRESS LAB 1) Whatey 2 TIME: 4:50 L DEHAND CARRY TIME: 5:30 SAMPLE TEMP: 50

mereden

Customer, Hard-Lab

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

FAX

716-937-9360

716-937-6527

PO Number:

Project Number:

Project Cust:

Project Site:

1746 Walden/Treated Soil

Date FAXED:

02/08/96

Lab Director Will So W

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID (LAB)

Sample ID #1 (CUST)

Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled Date Received

Date Analyzed

Date Reported

7999

PILE #16

Composite Soil

Russell Savage

02/02/96 03:30 02/07/96 11:30

02/08/96

02/08/96

Results Det Limit*

Lead

0.62 0.05 Results shown are:

TCLP Metals

Extraction Method: Analysis Method:

Closed Cup Extraction for 18 hrs

EPA 6010 ICP; AA/Cold Vapor

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

FAX

716-937-6527

716-937-9360

PO Number:

Project Number:

Project Cust:

Project Site:

1746 Walden/Treated Soil

Date FAXED:

02/08/96

Lab Director Wilh Som

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/=0.05 mg/L or ppm

*See Individual Limits

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

Det Limit* Results

Lead

0.41 0.05 Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method:

EPA 6010 ICP; AA/Cold Vapor





MANILLA

Box 40 5611 Water Street

WORKORDER NYS

SPECIALIZING IN ENVIRONMENTAL SOILS TESTS NY STATE CERTIFIED LAB #11369

	/
CUSTOMER: NWEC+C ADDRESS: CITY: STATE/ZIP: PHONE:	PO NUMBER: PROJECT NO.: 1746 IOACII PROJECT CUST.: 716476 S PROJECT SITE:
FAX:CONTACT:	SEND RESULTS: A FAX DEXPRIMAIL PHONE RESULTS: DYES DINO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BILEX + MIDE 8021 + MIBE	8270 (Stars) 625	FULL TCLP TCLP LESS HERBS & PESTS	LIST ANALYSIS REQUIRED	
503.1	PCB's	TCLP VOLATILES		
TPH GASOLINE	602	TCLP SEMI-VOLATILES		
TPH DIESEL	624	8 RCRA METALS (TCLP)		
8240	TON	HFRBICIDES		
8260 (Stars)	LUAD ONLY	PESTICIDES		
8260		REACTIVITY		
8 RCRA METALS (DI	RECT)	COROSIVITY (DIESEL)	· * * * * * * * * * * * * * * * * * * *	
i 1		PLASH PAINT (GAS OR OIL)	
		SUSPECT:	/0 `/ / / / / /	
SPECIAL INSTRUCTIONS: 1 port 13th - No. 10 10 10 10 10 10 10 10 10 10 10 10 10				
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	<u></u>		· /2 / / / / / /	
DATE TIME	SAMPLE DESCRIP	TION / LOCATION / MATRIX	' '`	
21211/3/30	DILE I'	6 Comps	X	
3576 3:95	DICF #1	7 / 1000		
				
		**		

CHAIN OF CUSTODY RECORD

SIGNATURE: NAME: CUSSET SAFECE DATED: / // TIME: 7:30 // HOW SENT: DEXPMAIL MAND CARRY	SAMPLES RECEIVED BY: EXPLAIS SIGNATURE: AND IT (MACE) NAME: NAME: AND M. WINGEY DATE: 67 / 7 M. TIME: 1/30 HOW REC'D:: EXP MAIL HAND CARRY FREIGHT IN: S LOGGED IN: 2 / 7 M. TIME: G/A .45 SAMPLE COND. Ga led SAMPLE TEMP.: 35 LAB NOTES:			

White-Lab, Yellow-Customer, Hard-Lab RESULTS WHEN <u>YOU</u> WANT THEM

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

Will So w

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Sample ID (LAB)

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

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 11:30

02/07/96

02/08/96

02/08/96

Results Det Limit*

Lead

0.84 0.05 Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method:

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (800) THE LABS

Tel: (800) 843-5227

F.4X: (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

Will Son

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

Det Limit* Results

Lead

2.01 0.05

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

Willi Sy W

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID (LAB)

Sample ID #1 (CUST) Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

8003

PILE #20

Composite

Soil

Russell Savage

03:00 02/06/96

02/07/96 11:30

02/08/96 02/08/96

Det Limit* Results

Lead

0.05 1.17

Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method:

PO Box 40 5611 Water Street Middlesex NY 14507

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

716-937-9360

716-937-6527

PO Number:

Project Number:

Project Cust:

Project Site:

1746 Walden/Treated Soil

Date FAXED:

02/08/96

Lab Director What In W

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

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

Det Limit* Results

Lead

0.78 0.05 Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method:

8001 800

8003



MANILLA iddle

ddlesex NY 14507

FAX 1-716-554-4114

WORKORDER NYS

CUSTOMER: Alway Contact:

SPECIALIZING IN ENVIRONMENTAL SOILS TESTS

NY STATE CERTIFIED LAB #11369

PO NUMBER: PROJECT NO.: PROJECT CUST.: PROJECT SITE: PROJECT SITE:
SEND RESULTS: FAX EXPR MAIL PHONE RESULTS: YES NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTDE 8021 + MTBE	8270 (Stars) 625	FULL TCLP TCLP LESS HERI	BS & PESTS	LIST	ANALY	SIS REQ	UIRED
503.1 TPH GASOLINE TPH DIESEL. 8240 8260 (Stars) 8260 8 RCRA METALS (D	PCB's 602 624 TOX LEAD ONLY	TCLP VOLATILE TCLP SEMI-VOL 8 RCRA METALS HERBICIDES PESTICIDES REACTIVITY COROSIVITY FLASH POINT	S ATTLES	- M 173			
DATE TIME	SAMPLE DESCRIP	PTION/LOCATI 18 Cerry, 19 Comp 20 Comp	<u>)</u>	× × ×			
3:30	FILE #	21 Con-	P3	X			

CHAIN OF CUSTODY RECORD

SIGNATURE: B. C. SALVER NAME: 1505(8) C. SALVER SIGNATURE 2: CANCER SIGNATURE SIGNATUR	SAMPLES RECEIVED BY: TXP () SIGNATURE: (1) NAME: (1) DATE: (2) HOW REC'D.: (1) EXP MAIL (HAND CARRY FREIGHT IN: S LOGGED IN: (1) SAMPLE COND.: (2) SAMPLE TEMP.: (3)
HOW SENT 2: DEXP MAIL DHAND CARRY	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 Hahm, Director

Analytical Services Center

GH/gk Enclosure recycled paper

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SENT TO 1 E + E JNC Company Name SENT TO 1 E + E JNC A/IN E C + C T - Standard Service									Page of											
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PILE#10 COMPL			V	∭		V.					Y									
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JOB NUMBER : 9600.213

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

	CLIENT			
- SAMPLE	SAMPLE	DATE	DATE	DATE
NUMBER	ID	SAMPLED	EXTRACTED	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

SAMPLE ID CLIENT: PILE#3 COMP 1

MATRIX: SOLID UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL

Lead

27

0.15 5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

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
QUANTITATION REGULATORY

RESULTS Q LIMIT LEVEL PARAMETER -----

39 0.15 5.0 Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39260

SAMPLE ID LAB :EE-96-39260 SAMPLE ID CLIENT: PILE#10 COMP 1

MATRIX: SOLID UNITS : MG/L QUANTITATION REGULATORY

RESULTS Q LIMIT LEVEL PARAMETER 16 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

UNITS : MG/L
QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL Lead 11 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

1	110	- 1	T	١
١.	uq	/	نىد)

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

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL -----Lead ND 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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 Will Sy a

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Sample ID (LAB)

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID #1 (CUST) Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

8005

PILE #22

Composite

Soil

Russell Savage

02/07/96

01:45

02/08/96 11:30

02/12/96

02/12/96

Results Det Limit*

Lead

0.39 0.05 Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method:

PO Box 40 5611 Water Street Middlesex NY 14507

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 Willh Sa

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Sample ID (LAB)

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID #1 (CUST) Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

8006

PILE #23

Composite

Soil

Russell Savage

02/07/96 01:45

02/08/96 11:30

02/12/96

02/12/96

Results Det Limit*

0.05

Lead

0.94

Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method:

	yater Street Midalesex NI 1+307
8005 8006 8007 CC	NILLA -800-843-5227 FAX 1-716-554-4114
	ZING IN ENVIRONMENTAL SOILS TESTS NY STATE CERTIFIED LAB #11369
CUSTOMER: NWEC+C ADDRESS: CITY: STATE/ZIP: PHONE: FAX: CONTACT:	PO NUMBER: PROJECT NO: PROJECT CUST: PROJECT SITE: SEND RESULTS: PHONE RESULTS: POYES D NO
SAMPLE DEMOGRACITY	CS AND TESTS REQUIRED
3020 BTEX + MTBE 8270 (Stars) FULL TCLP 8021 + MTBE 625 TCLP LESS HERBS & PS 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	(DIESEL)
	TION / MATRIX
CHAIN OF CU	STODY RECORD
SIGNATURE: SIGNATURE: SIGNATURE: NAME: SIGNATURE: SIGNATURE: SAME: SAME: SIGNATURE: SAME:	AMPLES RECEIVED BY: EXP LIPB GNATURE: ANN M. WHALOY ATE: 2/8/96 TIME: //:30 OW RECD: DEXP MAIL THAND CARRY EIGHT IN: \$ OGGED IN: 3/8/96 TIME: //:56 AMPLE COND: Salca SAMPLE TEMP: 50° AB NOTES:

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

expwo20doca

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 4

Wh So W

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID (LAB)

Sample ID #1 (CUST)

Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

8014

PILE #25

Composite

SOIL

Russell Savage

02/08/96 01:30

02/08/96 06:00

02/12/96

02/12/96

Results Det Limit*

Lead

0.20 0.05 Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method:

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

Mh Sow

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

*See Individual Limits

Sample ID (LAB) Sample ID #1 (CUST)

Sample ID #2 (CUST)

Date Analyzed

Date Reported

Water=mg/ =0.05 mg/L or ppm

8015

PILE #26

Composite SOIL

Russell Savage

02/08/96

02/08/96

Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method:

EPA 6010 ICP; AA/Cold Vapor

Matrix Sampled By Date Sampled Date Received

02/12/96 02/12/96 Results Det Limit*

01:30

06:00

Lead

2.44 0.05

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

F.4X: (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 Wilh Spa

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Sample ID (LAB)

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID #1 (CUST)

8016

PILE #26 DUP

Sample ID #2 (CUST)

Sampled By

Matrix

Date Sampled

Date Received

Date Analyzed

Date Reported

Composite SOIL

Russell Savage

01:30

02/08/96

06:00

02/08/96 02/12/96

02/12/96

Det Limit*

Lead

1.84

Results

0.05

Results shown are: TCLP Metals

Extraction Method: Analysis Method:

Closed Cup Extraction for 18 hrs

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE L.4BS

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:

Lab Director Will So av

02/12/96

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

8017

Sample ID #1 (CUST)

Sample ID (LAB)

Sample ID #2 (CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

PILE #27

Composite

SOIL

Russell Savage

02/08/96

01:30

06:00

Det Limit*

02/08/96

02/12/96

02/12/96

Lead

0.59 0.05 Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs EPA 6010 ICP; AA/Cold Vapor

Analysis Method:

Results

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 /i/llh Son a

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* =

Sample ID (LAB)

Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Sample ID #1 (CUST) Sample ID #2 (CUST)

Sampled By

Matrix

Date Sampled

Date Received

Date Analyzed

Date Reported

8018

PILE #28

Composite

SOIL

Russell Savage

02/08/96 02:00

02/08/96 06:00

02/12/96

02/12/96

Results Det Limit*

Lead

0.43 0.05 Results shown are:

TCLP Metals

Extraction Method:

Closed Cup Extraction for 18 hrs

Analysis Method:

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 Wilh A 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

8019

Excavation 10

STOCKPILED SOIL

SOIL

Russell Savage

02/08/96 02:30

06:00 02/08/96

02/12/96

02/12/96

Results Det Limit*

Lead

0.87 0.05

80		











MANILLA COPY

WORKORDER NYS

NY STATE CERTIFIED LAB #11369

CUSTOMER: ADDRESS: ADDRESS: CITY: STATE/ZIP: PHONE: FAX: CONTACT: SAMPLE DEMOGRAPHIC	PO NUMBER: PROJECT NO: PROJECT CUST: PROJECT SITE: SEND RESULTS: PHONE RESULTS: PYES INO CS AND TESTS REQUIRED
8020 BTEX + MTBE 8270 (Stars) FULL TCLP 3021 + MTBE 625 TCLP LESS HERBS & PES 503.1 PCB'S TCLP VOLATILES TPH GASOLINE 602 TCLP SEMI-VOLATILES TPH DIESEL 624 8 RCRA METALS (TCLP) HERBICIDES 9240 TOX HERBICIDES 9260 (Stars) 1 LEAD ONLY FESTICIDES REACTIVITY CORROSIVITY FLASH POINT SUSPECTION DATE TIME SAMPLE DESCRIPTION / LOCAT 1 12 12 2	(DIESEL) (GAS OR OIL) CT:
CHAIN OF CUS	STODY RECORD
SIGNATURE: SIGNATURE: SIGNATURE: NAME: SIGNATURE: SAME: SAME	MPLES RECEIVED BY: EXP LAB GNATURE: Ann M. Whaley ATE: 2/8/96 TIME: 6:00Pm OW RECD: DEXP MAIL THAND CARRY EIGHT IN: \$ GGED IN: 2/1/96 TIME: 0:00 MPLE COND: SAMPLE TEMP: 40 IB NOTES:

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

expwo20doc.



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

Janice Jaeger Project Chemist

Enc.



A Full Service Environmental Laboratory

Effective 10/30/95

GTC LIST OF OUALIFIERS

(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.
- 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

NJ ID # in Rochester: 73331 NJ ID # in Hackensack: 02317

NY ID # in Massachusetts: M-NY032



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: Address:

Nature's Way EC&C, Inc. 3553 Crittenden Road

Crittenden, NY 14038

Phone: FAX: Attention:

716/937-6527 716/937-9360 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

LEAD

Result Det. Limit

Units

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



FAX: (716) 454-1245 Tel: (716) 454-3760

710 Exchange St. Rochester, N.Y. 14608

FAX: (716) 634-9019 Tel: (716) 634-0454 435 Lawrence Bell Dr. Amherst, N.Y. 14221

Submission #: 9602000136

LABORATORY REPORT- TCLP METALS

Client Name: Address:

Nature's Way EC&C, Inc. 3553 Crittenden Road

Crittenden, NY 14038

Phone:

716/937-6527 716/937-9360

FAX: 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

LEAD

Result Det. Limit

Units

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



FAX: (716) 454-1245 Tel: (716) 454-3760 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: Address:

Nature's Way EC&C, Inc. 3553 Crittenden Road

Crittenden, NY 14038

Phone:

716/937-6527 716/937-9360

FAX: Attention:

Mr. Russ Savage

PO Number:

Project Site:

1746 WALDEN AVE.

Date faxed :

Lab Director:

02/14/96

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

Result Det. Limit

Units

9.39

0.100

MG/L (PPM)

LEAD

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



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: Address:

Nature's Way EC&C, Inc. 3553 Crittenden Road

Crittenden, NY 14038

Phone: FAX:

Attention:

716/937-6527 716/937-9360 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 PILE #27

Client ID 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

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



Tel: (716) 454-3760 FAX: (716) 454-1245

Tel: (716) 634-0454

FAX: (716) 634-9019

710 Exchange St. Rochester, N.Y. 14608

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: FAX:

716/937-6527 716/937-9360

Attention:

Mr. Russ Savage

PO Number:

1746 WALDEN AVE.

Project Site: Date faxed : Lab Director:

02/14/96

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 Massachusetts: M-NY032

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801 NY ID# in Hackensack: 02317

NJ ID# in Rochester: 73331

METALS-1

GENERAL TESTING CORPORATION

Attiliated With CAS, Kelso, WA (see below for other offices)
710 Exchange Street, Rochester, New York 14608
(716) 454-3760 • FAX (716) 454-1245

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

(800) 695-7222

DATE 2/12/96 PAGE 1 OF

PROJECT NAME 1746 WALPEN AVE															QUE		ED			······································		
PROJECT MANAGER/CONTACT_				CHC				302		A's	DA's	Ę.	gait.									
company/address 3553 Crittenden Rd.								601/6	B's	5 9	SV P	S. S.	BIZA S. D.I		LVE	99						
Crittenden, NY 14038						1's 624)A's]625		S/PC 608	7 802	7827 7TC	ETAL SVO/	3ACTI	OTAL W)	(MC	١						
TEL (716) 937-6527 SAMPLER'S SIGNATURE (L	FAX	(716)	937-9	360	NOS NOS	000	S SVC	0/802	CIDE	SLIS	SLIS	□ sk	CHAF	LS, TC BELO	LS, D BELC	7						
SAMPLER'S SIGNATURE (C)	155 cl	J. S	avge		NUMBER OF CONTAINERS	GC/M8 □ 826	GC/MS □ 827	GC VOA's □ 8010/8020 □ 601/602	PESTI	STAR!	STAR.	TO VO	WASTE □ Rea	META (LIST	META (LIST	F						
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Pile#26			63969	<u> </u>	1	ļ	ļ	<u> </u>								X						
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Signature	Signature	Mart	inac	Standard (10-15 we				. Routine Narrati	e Rep v			1			-				-			
Printed Name	Signature Printed Name		<u>"</u>	Provide Verbal Prel	iminary	Results	3	I. EPA Le Validat		ckage		BIII	10:									
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Date/Time	Date/Time_2	13/96		Requested Report Date				S. NY AS S. Site sp			bles							Subi	mission	<u>کی: No</u>	- 1	3 6
RELINQUISHED BY:		RECEIVED I	BY:	SPECIAL INST	RUC	TIONS	s/co	MMEN	NTS:													
	Cinneture			METALS:																·		*
Signature	Signature Printed Name			ORGANICS: [TCL	ΩР	PL [AE C	nly		l Only		pecia	l List								
Printed Name				***************************************								···-									~~~ 	****
Firm	Firm											· · · · · · · · · · · · · · · · · · ·			·							
Date/Time	Date/Time			85 TRINITY HACKENSA	PLAC CK, 1	E 1J 07	7601	FAX	201 201	-488 -488	3-524: 3-638:	2	43 A N	5 LA 1HEF	WRE RST,	NCE NY 1	BEL 4221	.L DI		-716 -716)	634- 634-	0454 9019



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.

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Very truly yours,

Gary Hahn, Director

Analytical Services Center

GH/gk Enclosure

recycled paper

A	ecology	and	environment,	ine
1 1				

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

CHAIN-OF-CUSTODY RECORD Project Manager. Project No : Project Name Samplers: (Signatures) Field Team Leader: REMARKS SAMPLE INFORMATION NUMBER STATION NUMBER STATION LOCATION DATE TIME CON-TAINERS EXPECTED COMPOUNDS (Concentration)* * not submitted tex results immed to NWECOC @ 937 Relinquished By Received By: (Signature) Relinquished By: (Signature) Date/Time: Received By: (Signature) Ship Via: Charles Say Received By: (Signature) Relinquished By: (Signature) Date/Time: Received By: (Signature) BL/Airbill Number: Date. Relinquished By. (Signature) Date/Time: Received For Laboratory By: Relinquished By: (Signature) Date/Time: Received For Laboratory By: (Signature) Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

^{*}See CONCENTRATION RANGE on back of form.

JOB NUMBER : 9600.255

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

- SAMPLE	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

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

QUANTITATION REGULATORY

PARAMETER RESULTS Q LIMIT LEVEL

Lead 6.1 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

MATRIX: SOLID UNITS : MG/L

SAMPLE ID CLIENT: PILE #29

QUANTITATION REGULATORY

RESULTS Q LIMIT LEVEL PARAMETER -----

7.7 Lead 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.

MATRIX: SOLID UNITS : MG/L SAMPLE ID LAB :EE-96-39549 SAMPLE ID CLIENT: PILE #30

QUANTITATION REGULATORY

RESULTS Q LIMIT LEVEL PARAMETER

1.8 Lead 0.15 5.0

ND = NOT DETECTED QUALIFIERS: C = COMMENT

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

UNITS : MG/L
QUANTITATION REGULATORY
LEVEL PARAMETER RESULTS Q LIMIT LEVEL

----------5.0 11 0.15 Lead

-----QUALIFIERS: C = COMMENT ND = NOT DETECTED

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39551

SAMPLE ID CLIENT: PILE #32

MATRIX: SOLID UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL -----Lead 4.2 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

9600.255

(mg/L)												
Parameter	E & E Laboratory No. 96- 39549	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery							
Lead		1.8	6.8	5.0	100							

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

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID

UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER RESULTS Q LIMIT LEVEL

0.15

QUALIFIERS: C = COMMENT ND = NOT DETECTED



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International Specialists in the Environment

ANALYTICAL SERVICES CENTER4493 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

	CLIENT			
- SAMPLE	SAMPLE	DATE	DATE	DATE
NUMBER	ID	SAMPLED	EXTRACTED	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

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39865

MATRIX: SOLID UNITS : MG/L SAMPLE ID CLIENT: PILE #24

QUANTITATION REGULATORY PARAMETER

RESULTS Q LIMIT LEVEL -----

1.2 Lead 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.

MATRIX: SOLID UNITS : MG/L SAMPLE ID LAB :EE-96-39866 SAMPLE ID CLIENT: PILE #29

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL ------1.2 0.15

QUALIFIERS: C = COMMENT ND = NOT DETECTED

9600.307

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ANALY	FOUND FE VALUE	TRUE VALUE	PERCENT RECOVER	
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

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT

LEVEL

5.0

Lead

ND

0.15

QUALIFIERS: C = COMMENT

ND = NOT DETECTED



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.

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Very truly yours,

Gary Hann, Director

Analytical Services Center

GH/gk Enclosure

recycled paper

CHAIN OF CUSTODY RECORD

Client Name: 1/45 1)EC

Mailing Address: Contact - Kevin Clases

851-7220

Project Name: 1746 WALDEN AUG AMALYSIS LOCATION NUMBER DATE TIME SAMPLE NUMBER REMARK CONTAINERS Pile 33 Scil Comp 48 Hour Treated Soil Pile 33 2/13/96 Scil Comp X Pile 34 Rush TH Treated Soil Pile 34 3/13/96 fax to 937-9360 SAMPLED BY: Greg Weber NWEC+C, Inc) RELINQUISHED 1 SIGN SIGN BY: DATE TIME DATE TIME DATE TIME RECEIVED SIGN SIGN SIGN SIGN BY: DATE TIME DATE TIME TIME DATE TIME DATE RECEIVED FOR LABORATORY BY: **METHOD OF SHIPMENT:** 7-13-96 15:10

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

SAMPLE ID CLIENT: PILE #33

MATRIX: SOLID UNITS : MG/L

QUANTITATION REGULATORY

RESULTS Q LIMIT LEVEL PARAMETER

0.37 0.15 Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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-96-39580 SAMPLE ID CLIENT: PILE #34

MATRIX: SOLID UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER RESULTS Q LIMIT LEVEL
Lead 0.76 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

9600.263

		(mg/L)		
Parameter	E & E Laboratory No. 96- 39579	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		0.371	0.367	1.1

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

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

9600.263

(mg/L)											
Parameter	E & E Laboratory No. 96- 39579	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery						
Lead		0.371	5.42	5.0	101						

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

9600.263

107

	(ug/L)							
ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY					

1070 1000

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

Lead

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL

ND

0.15

5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED



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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.

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Very truly yours,

Gary Hahn, Director

Analytical Services Center

GH/gk Enclosure

recycled paper

ecology and environment, inc. Analytical Services Center

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

Project No		Pro	74	16	И	JA	LAGN	TREAT	TEA SOI	a	Project Manage	r:									///	///			***************************************
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^{*}See CONCENTRATION RANGE on back of form.

JOB NUMBER : 9600.290

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

	CLIENT			
- SAMPLE	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

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39757

SAMPLE ID CLIENT: PILE #35

MATRIX: SOLID UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL

-----Lead

ND

0.15 5.0

_____ QUALIFIERS: C = COMMENT

ND = NOT DETECTED

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

9600.290

(mg/L)												
Parameter	E & E Laboratory No. 96- 39757	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery							
Lead		ND	4.84	5.0	96.8							

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

	(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

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT 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.

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Very truly yours,

Gary Hahn, Director

Analytical Services Center

GH/gk Enclosure

recycled paper



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

Project No		Project Name								Project Manager.				T							
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^{*}See CONCENTRATION BANGE on back of form.

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

SAMPLE ID CLIENT: PILE #37

MATRIX: SOLID UNITS : MG/L

UNITS : PIG/L
QUANTITATION REGULATORY
LEVEL

PARAMETER

RESULTS Q LIMIT LEVEL Lead ND 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL

Lead

0.19

0.15

5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

	(ug/L)											
ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY									
Lead	1110	1000	111									

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

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

Lead

CLIENT : NATURES WAY INC.

SAMPLE ID LAB : METHOD BLANK

MATRIX: SCLID UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL 0.15 5.0 ND

QUALIFIERS: C = COMMENT ND = NOT DETECTED



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

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39918 SAMPLE ID CLIENT: PILE #40

MATRIX: SOLID UNITS : MG/L

QUANTITATION REGULATORY

RESULTS Q LIMIT LEVEL PARAMETER -----

Lead 0.30 0.15 5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.

MATRIX: SOLID UNITS : MG/L SAMPLE ID LAB :EE-96-39917 SAMPLE ID CLIENT: PILE #39

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL

ND 0.15 5.0 Lead

______ QUALIFIERS: C = COMMENT ND = NOT DETECTED

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 QUANTITATION REGULATORY

PARAMETER RESULTS Q LIMIT LEVEL ------

0.30 Lead 0.15 5.0

J = ESTIMATED VALUE

QUALIFIERS: C = COMMENT

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.

MATRIX: SOLID SAMPLE ID LAB :EE-96-39919 SAMPLE ID CLIENT: PILE #41 UNITS : MG/L

QUANTITATION REGULATORY

RESULTS Q LIMIT LEVEL PARAMETER

0.23 0.15 Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

QUANTITATION REGULATORY

PARAMETER RESULTS Q LIMIT LEVEL _____

0.85 Lead 0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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

9600.319

		(mg/L)		
Parameter	E & E Laboratory No. 96- 39918	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		0.304	0.305	0.3

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.

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL

Lead

ND

0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED

	(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

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

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

CHAIN-OF-CUSTODY RECORD

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ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER 4493 Waiden 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 $\mathbb{E} \times \mathbb{E}$ 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 ecology and environment, inc.

Analytical Services Center

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

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*See CONCENTRATION RANGE on back of form.

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ecology and environment, inc. 4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852 International Specialists in the Environment CHAIN-OF-CUSTODY RECORD Project No Project Manager: WALDEN TREATED SOIC Field Team Leader: NUMBER SAMPLE INFORMATION OF CON-STATION LOCATION EXPECTED COMPOUNDS (Concentration)* TAINERS

Date/Time: Received By (Signature) fletinquished By. (Signature) Date/Time: Received By: (Signature) Relinquished By: (Signature) Ship Via: Received By: (Signature) Received By: (Signature) Relinquished By: (Signature) Date/Time: Relinquished By: (Signature) Date/Time: BL/Airbill Number: Date. Received For Laboratory By: (Signature) Date/Time: Received For Laboratory By: Relinquished By: (Signature) Date/Time: Betirrouished By: (Spinature) Officiation Original Accompanies Shipment; Copy to Coordinator Field Files
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REMARKS

JOB NUMBER : 9600.329

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

CLIENT

		CHIENI			
-	SAMPLE	SAMPLE	DATE	DATE	DATE
	NUMBER	ID	SAMPLED	EXTRACTED	ANALYZED
TCL	P - LEAD	(ICP)-S			
3 9	9971.01	PILE #42	02/22/96	02/23/96	02/24/96

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB :EE-96-39971 MATRIX: SOLID

UNITS : MG/L SAMPLE ID CLIENT: PILE #42

QUANTITATION REGULATORY

PARAMETER _____

RESULTS Q LIMIT LEVEL
2.4 0.15 5.0 Lead

QUALIFIERS: C = COMMENT ND = NOT DETECTED

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.

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Lead	1130	1000	113	

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

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL

Lead

ND

0.15

5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED



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 Halnn, Director

Analytical Services Center

GH/gk Enclosure

recycled paper

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ecology and environment, inc.

*See CONCENTRATION RANGE on back of form

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 Project No.: Project Manager 1746 WALDEN TREATED SOIL Field Team Leader REMARKS SAMPLE INFORMATION NUMBER STATION STATION LOCATION CON-TAINERS EXPECTED COMPOUNDS (Concentration) Modern-trucked soi Rle #1 Modern Treated Soil Pik# Religguished (Signifure) Received By: (Signature) Relinquished By (Signature) Date/Time: Received By: (Signature) Ship Via: fletinguished By (Signature) Relinquished By (Signature) Date/Time Received By: (Signature) BL/Airbill Number: Date. Relinquished By (Signature) Relinquished By (Signature) Date/Time Received For Laboratory By: Distribution: Original Accompanies Shipment, Copy to Coordinator Files

JOB NUMBER : 9600.306

Ecology and Environment, Inc. SAMPLE TRACKING REPORT

		CLIENT						
-	SAMPLE	SAMPLE				DATE	DATE	DATE
	NUMBER	ID				SAMPLED	EXTRACTED	ANALYZED
TCL:	P - LEAD	(:	ICP) - S	5				
3	9863.01	TREATED	SOIL	PILE#	1	02/19/96	02/21/96	02/21/96
3	9864.01	TREATED	SOIL	PILE#	2	02/19/96	02/21/96	02/21/96

ELAP ID : 10486

Ecology and Environment, Inc. Analytical Services Center

CLIENT : NATURES WAY INC.

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

UNITS : MG/L

QUANTITATION REGULATORY

PARAMETER

RESULTS Q LIMIT LEVEL

Lead

ND

0.15 5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED