167253

2885

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: 94V
PROJECT NAME: T05-9405-804
Activity Code:
SAMPLERS: (Print Name and Sign) Steven J. Stone
HM# 5059

STA NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Total RCRA Metals	TCLP RCRA Metals	PCBs (Aroclors)	Dioxin (Full scan)	Total SVOCs (Low Int)	TCLP SVOCs	Total VOCs (Low Int)	TCLP VOCs	HSA# TAG NUMBERS
QD1	5/27/94	1550		X	Quicky Beach/Site Q	2-8oz		✓			✓	✓			25160
QD2	5/27/94	1555		X	Quicky Beach/Site Q	2-8oz		✓	✓		✓	✓			25161
QD3	5/27/94	1600		X	Quicky Beach/Site Q	2-8oz		✓	✓		✓	✓			25162

Verbal: 2 week turnaround
Hardcopy: 3 week turnaround
QA Level II Data Package

Send Results to:
Mary Jane Ripp
Ecology & Environment, Inc.
1A W. Jackson Blvd.
Chicago, IL 60604
Tel. No. (312) 663-9415
Fax No. (312) 663-1890

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Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steven J. Stone	5/27/94 1900	[illegible] 5-31-94 1660
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) / Date / Time

Ship To: Twin City Testing Corporation
737 Pelham Blvd.
St. Paul, MN 55114
ATTN: Terry Uecker
Airbill Number: Federal Express Airbill No. 286 752 6270
Chain of Custody Seal Numbers: C-C Nos. 170777 & 170776

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

Printed on Recycle (5) [illegible] Soy Based Ink

OK [illegible] room temp

5-27-94

JUN-14-1994 11:31 FROM HIH-St Paul-Chem/Env TO 913126631090 P.02
JUN 16 '94 9:17 EAGND E EHICAAO PAGE.02

Huntingdon

EPA METHOD 8270
TCLP SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID:	QD1	Lab ID (HSN):	QD1
Matrix:	LEACH	Filename:	4157K16
Date Sampled:	05/27/94	Sample Size:	200 mL
Date Received:	05/31/94	Extract Vol.:	1000 uL
Date Extracted:	06/05/94	Dil. Factor:	1
Date Analyzed:	06/06/94		
Date Leached:	06/02/94		

Compounds:	ug/L (PPB)	EQL
Pyridine	50 U	50
1,4-Dichlorobenzene	50 U	50
o-Cresol	50 U	50
m- and/or p-Cresol	50 U	50
Hexachloroethane	50 U	50
Nitrobenzene	50 U	50
Hexachloro-1,3-butadiene	50 U	50
2,4,6-Trichlorophenol	50 U	50
2,4,5-Trichlorophenol	130 U	130
2,4-Dinitrotoluene	50 U	50
Hexachlorobenzene	50 U	50
Pentachlorophenol	130 U	130

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Surrogate Recovery		QC LIMITS
2-Fluorophenol	45%	21-110%
Phenol-d5	30%	10-110%
2-Chlorophenol-d4	72%	33-110%
Nitrobenzene-d5	86%	35-114%
2-Fluorobiphenyl	74%	43-116%
2,4,6-Tribromophenol	88%	10-123%
Terphenyl-d14	101%	33-141%

TCLP = Toxicity Characteristic Leaching Procedure
EQL = Estimated Quantitation Limit (lower calibration limit)
U = Undetected at the given EQL
J = Detected below the EQL (estimated value)
E = Exceeds the upper calibration limit (estimated value)
B = Also detected in the associated Blank
Y = Associated internal standard failed method criteria

Reference: "EPA Test Methods for Evaluating Solid Waste", SW-846, November 1986, 3rd Edition.

HPN:

Huntingdon

EPA METHOD 8270
TCLP SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID: QD2
Matrix: LEACH
Date Sampled: 05/27/94
Date Received: 05/31/94
Date Extracted: 06/05/94
Date Analyzed: 06/06/94
Date Leached: 06/02/94

Lab ID (HSN): QD2
Filename: 4157K17
Sample Size: 200 mL
Extract Vol.: 1000 uL
Dil. Factor: 1

Compounds:	ug/L (PPB)	EQL
Pyridine	50 U	50
1,4-Dichlorobenzene	50 U	50
o-Cresol	50 U	50
m- and/or p-Cresol	50 U	50
Hexachloroethane	50 U	50
Nitrobenzene	50 U	50
Hexachloro-1,3-butadiene	50 U	50
2,4,6-Trichlorophenol	6.3 J	50
2,4,5-Trichlorophenol	130 U	130
2,4-Dinitrotoluene	50 U	50
Hexachlorobenzene	50 U	50
Pentachlorophenol	16 J	130

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Surrogate Recovery		QC LIMITS
2-Fluorophenol	52%	21-110%
Phenol-d5	36%	10-110%
2-Chlorophenol-d4	79%	33-120%
Nitrobenzene-d5	92%	35-114%
2-Fluorobiphenyl	74%	43-116%
2,4,6-Tribromophenol	103%	10-123%
Terphenyl-d14	130%	33-141%

TCLP = Toxicity Characteristic Leaching Procedure
EQL = Estimated Quantitation Limit (lower calibration limit)
U = Undetected at the given EQL
J = Detected below the EQL (estimated value)
E = Exceeds the upper calibration limit (estimated value)
B = Also detected in the associated Blank
Y = Associated internal standard failed method criteria

Reference: "EPA Test Methods for Evaluating Solid Waste", SW-846, November 1986, 3rd Edition.

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EPA METHOD 8270
TCLP SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID:	QD3	Lab ID (HSN):	QD3
Matrix:	LEACH	Filename:	4157K18
Date Sampled:	05/27/94	Sample Size:	200 mL
Date Received:	05/31/94	Extract Vol.:	1000 uL
Date Extracted:	06/05/94	Dil. Factor:	1
Date Analyzed:	06/06/94		
Date Leached:	06/02/94		

Compounds:	ug/L (PPB)	EQL
Pyridine	50 U	50
1,4-Dichlorobenzene	50 U	50
o-Cresol	50 U	50
m- and/or p-Cresol	50 U	50
Hexachloroethane	50 U	50
Nitrobenzene	50 U	50
Hexachloro-1,3-butadiene	50 U	50
2,4,6-Trichlorophenol	50 U	50
2,4,5-Trichlorophenol	130 U	130
2,4-Dinitrotoluene	50 U	50
Hexachlorobenzene	50 U	50
Pentachlorophenol	130 U	130

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Surrogate Recovery		QC LIMITS
2-Fluorophenol	52%	21-110%
Phenol-d5	36%	10-110%
2-Chlorophenol-d4	75%	33-110%
Nitrobenzene-d5	90%	35-114%
2-Fluorobiphenyl	71%	43-116%
2,4,6-Tribromophenol	101%	10-123%
Terphenyl-d14	138%	33-141%

TCLP = Toxicity Characteristic Leaching Procedure
EQL = Estimated Quantitation Limit (lower calibration limit)
U = Undetected at the given EQL
J = Detected below the EQL (estimated value)
E = Exceeds the upper calibration limit (estimated value)
B = Also detected in the associated Blank
Y = Associated internal standard failed method criteria

Reference: "EPA Test Methods for Evaluating Solid Waste", SW-846, November 1986, 3rd Edition.

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EPA METHOD 8270
TCLP SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID:	QD1 MS	Lab ID (HSN):	QD1 MS
Matrix:	LEACH	Filename:	4160K13
Date Sampled:	05/27/94	Sample Size:	200 mL
Date Received:	05/31/94	Extract Vol.:	1000 uL
Date Extracted:	06/08/94	Dil. Factor:	1
Date Analyzed:	06/09/94		
Date Leached:	06/02/94		

Compounds:	ug/L (PPB)	EQL
Pyridine	170	50
1,4-Dichlorobenzene	160	50
o-Cresol	240	50
m- and/or p-Cresol	440	50
Hexachloroethane	140	50
Nitrobenzene	270	50
Hexachloro-1,3-butadiene	150	50
2,4,6-Trichlorophenol	300	50
2,4,5-Trichlorophenol	300	130
2,4-Dinitrotoluene	310	50
Hexachlorobenzene	290	50
Pentachlorophenol	580 E	130

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Surrogate Recovery		QC LIMITS
2-Fluorophenol	50%	21-110%
Phenol-d5	33%	10-110%
2-Chlorophenol-d4	82%	33-110%
1,2-Dichlorobenzene-d4	51%	16-110%
Nitrobenzene-d5	82%	35-114%
2-Fluorobiphenyl	65%	43-116%
2,4,6-Tribromophenol	113%E	10-123%
Terphenyl-d14	100%	33-141%

TCLP - Toxicity Characteristic Leaching Procedure
EQL - Estimated Quantitation Limit (lower calibration limit)
U - Undetected at the given EQL
J - Detected below the EQL (estimated value)
E - Exceeds the upper calibration limit (estimated value)
B - Also detected in the associated Blank

Reference: "EPA Test Methods for Evaluating Solid Waste", SW-846, November 1986, 3rd Edition.

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EPA METHOD 8270
TCLP SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID:	QD1 MSD	Lab ID (HSN):	QD1 MSD
Matrix:	LEACH	Filename:	4160K14
Date Sampled:	05/27/94	Sample Size:	200 mL
Date Received:	05/31/94	Extract Vol.:	1000 uL
Date Extracted:	06/08/94	Dil. Factor:	1
Date Analyzed:	06/09/94		
Date Leached:	06/02/94		

Compounds:	ug/L (PPB)	EQL
Pyridine	170	50
1,4-Dichlorobenzene	170	50
o-Cresol	240	50
m- and/or p-Cresol	430	50
Hexachloroethane	160	50
Nitrobenzene	280	50
Hexachloro-1,3-butadiene	160	50
2,4,6-Trichlorophenol	290	50
2,4,5-Trichlorophenol	320	130
2,4-Dinitrotoluene	310	50
Hexachlorobenzene	310	50
Pentachlorophenol	740 E	130

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Surrogate Recovery		QC LIMITS
2-Fluorophenol	50%	21-110%
Phenol-d5	33%	10-110%
2-Chlorophenol-d4	79%	33-110%
1,2-Dichlorobenzene-d4	53%	16-110%
Nitrobenzene-d5	79%	35-114%
2-Fluorobiphenyl	61%	43-116%
2,4,6-Tribromophenol	114%E	10-123%
Terphenyl-d14	111%	33-141%

TCLP = Toxicity Characteristic Leaching Procedure
EQL = Estimated Quantitation Limit (lower calibration limit)
U = Undetected at the given EQL
J = Detected below the EQL (estimated value)
E = Exceeds the upper calibration limit (estimated value)
B = Also detected in the associated Blank

Reference: "EPA Test Methods for Evaluating Solid Waste", SW-846, November 1986, 3rd Edition.

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID:	QD1	Lab ID (HSN):	25160RI
Matrix:	SOIL	Filename:	4164P10
Date Sampled:	05/27/94	Sample Size:	1 grams
Date Received:	05/31/94	Extract Vol.:	500 uL
Date Extracted:	06/09/94	Dil. Factor:	10
Date Analyzed:	06/13/94	GPC Factor:	2
		% Moisture:	6.4

Compounds:	ug/Kg (PPB)		EQL
Phenol	110000	UD	110000
bis(2-Chloroethyl)ether	110000	UD	110000
2-Chlorophenol	110000	UD	110000
1,3-Dichlorobenzene	110000	UD	110000
1,4-Dichlorobenzene	110000	UD	110000
1,2-Dichlorobenzene	110000	UD	110000
2-Methylphenol	110000	UD	110000
2,2'-oxybis(1-Chloropropane)	110000	UD	110000
4-Methylphenol	110000	UD	110000
N-Nitroso-di-n-propylamine	110000	UD	110000
Hexachloroethane	110000	UD	110000
Nitrobenzene	110000	UD	110000
Isophorone	110000	UD	110000
2-Nitrophenol	110000	UD	110000
2,4-Dimethylphenol	110000	UD	110000
bis(2-Chloroethoxy)methane	110000	UD	110000
2,4-Dichlorophenol	110000	UD	110000
1,2,4-Trichlorobenzene	110000	UD	110000
Naphthalene	110000	UD	110000
4 Chloroaniline	110000	UD	110000
Hexachlorobutadiene	110000	UD	110000
4-Chloro-3-methylphenol	110000	UD	110000
2-Methylnaphthalene	110000	UD	110000
Hexachlorocyclopentadiene	110000	UD	110000
2,4,6-Trichlorophenol	110000	UD	110000
2,4,5-Trichlorophenol	270000	UD	270000
2-Chloronaphthalene	110000	UD	110000
2-Nitroaniline	270000	UD	270000
Dimethylphthalate	110000	UD	110000
Acenaphthylene	110000	UD	110000
2,6-Dinitrotoluene	110000	UD	110000
3-Nitroaniline	270000	UD	270000
Acenaphthene	110000	UD	110000
2,4-Dinitrophenol	270000	UD	270000
4-Nitrophenol	270000	UD	270000
Dibenzofuran	110000	UD	110000
2,4-Dinitrotoluene	110000	UD	110000
Diethylphthalate	110000	UD	110000
4-Chlorophenyl-phenylether	110000	UD	110000
Fluorene	110000	UD	110000
4-Nitroaniline	270000	UD	270000
4,6-Dinitro-2-methylphenol	270000	UD	270000

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID: QD1 Lab ID (HSN): 25160RI
Matrix: SOIL Filename: 4164P10

Compounds:	ug/Kg (PPB)		EQL
N-Nitrosodiphenylamine	110000 UD		110000
4-Bromophenyl-phenylether	110000 UD		110000
Hexachlorobenzene	110000 UD		110000
Pentachlorophenol	270000 UD		270000
Phenanthrene	110000 UD		110000
Anthracene	110000 UD		110000
Carbazole	110000 UD		110000
Di-n-butylphthalate	110000 UD		110000
Fluoranthene	110000 UD		110000
Pyrene	110000 UD	Y	110000
Butylbenzylphthalate	110000 UD	Y	110000
3,3'-Dichlorobenzidine	110000 UD	Y	110000
Benz(a)anthracene	110000 UD	Y	110000
Chrysene	110000 UD	Y	110000
bis(2-Ethylhexyl)phthalate	110000 UD	Y	110000
Di-n-octylphthalate	110000 UD	Y	110000
Benzo(b)fluoranthene	110000 UD	Y	110000
Benzo(k)fluoranthene	110000 UD	Y	110000
Benzo(a)pyrene	110000 UD	Y	110000
Indeno(1,2,3-cd)pyrene	110000 UD	Y	110000
Dibenz(a,h)anthracene	110000 UD	Y	110000
Benzo(g,h,i)perylene	110000 UD	Y	110000

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Surrogate Recovery			QC LIMITS
2-Fluorophenol	41%JD		25-121%
Phenol-d5	63%JD		24-113%
2-Chlorophenol-d4	59%JD		20-130%
1,2-Dichlorobenzene-d4	68%JD		20-130%
Nitrobenzene-d5	72%JD		23-120%
2-Fluorobiphenyl	101%JD		30-115%
2,4,6-Tribromophenol	25%JD		19-122%
Terphenyl-d14	142%JD	Y	18-137%

TCL = Target Coumpound List EPA Contract Laboratory Program (OLM01)
EQL = Estimated Quantitation Limit (lower calibration limit)
U = Undetected at the given EQL
J = Detected below the EQL (estimated value)
E = Exceeds the upper calibration limit (estimated value)
B = Also detected in the associated Blank
D = Analysis at a secondary Dilution factor
Y = Associated internal standard failed method criteria
Note: All results are reported on a dry weight basis.
Reference: "EPA Test Methods for Evaluating Solid Waste", SW-846, November 1986, 3rd Edition.

HPN: 5039

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID:	QD1	Lab ID (HSN):	25160MSD RI
Matrix:	SOIL	Filename:	4164P09
Date Sampled:	05/27/94	Sample Size:	1 grams
Date Received:	05/31/94	Extract Vol.:	500 µL
Date Extracted:	06/09/94	Dil. Factor:	10
Date Analyzed:	06/13/94	GPC Factor:	2
		% Moisture:	6.4

Compounds:	ug/Kg (PPB)		EQL
Phenol	69000	JD	110000
bis(2-Chloroethyl)ether	110000	UD	110000
2-Chlorophenol	67000	JD	110000
1,3-Dichlorobenzene	110000	UD	110000
1,4-Dichlorobenzene	49000	JD	110000
1,2-Dichlorobenzene	110000	UD	110000
2-Methylphenol	110000	UD	110000
2,2'-oxybis(1-Chloropropane)	110000	UD	110000
4-Methylphenol	110000	UD	110000
N-Nitroso-di-n-propylamine	42000	JD	110000
Hexachloroethane	110000	UD	110000
Nitrobenzene	110000	UD	110000
Isophorone	110000	UD	110000
2-Nitrophenol	110000	UD	110000
2,4-Dimethylphenol	110000	UD	110000
bis(2-Chloroethoxy)methane	110000	UD	110000
2,4-Dichlorophenol	110000	UD	110000
1,2,4-Trichlorobenzene	51000	JD	110000
Naphthalene	110000	UD	110000
4-Chloroaniline	110000	UD	110000
Hexachlorobutadiene	110000	UD	110000
4-Chloro-3-methylphenol	67000	JD	110000
2-Methylnaphthalene	110000	UD	110000
Hexachlorocyclopentadiene	110000	UD	110000
2,4,6-Trichlorophenol	110000	UD	110000
2,4,5-Trichlorophenol	270000	UD	270000
2-Chloronaphthalene	110000	UD	110000
2-Nitroaniline	270000	UD	270000
Dimethylphthalate	110000	UD	110000
Acenaphthylene	110000	UD	110000
2,6-Dinitrotoluene	110000	UD	110000
3-Nitroaniline	270000	UD	270000
Acenaphthene	44000	JD	110000
2,4-Dinitrophenol	270000	UD	270000
4-Nitrophenol	24000	JD	270000
Dibenzofuran	110000	UD	110000
2,4-Dinitrotoluene	40000	JD	110000
Diethylphthalate	110000	UD	110000
4-Chlorophenyl-phenylether	110000	UD	110000
Fluorene	110000	UD	110000
4-Nitroaniline	270000	UD	270000
4,6-Dinitro-2-methylphenol	270000	UD	270000

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID: QD1 Lab ID (HSN): 25160MSD RI
Matrix: SOIL Filename: 4164P09

Compounds:	ug/Kg (PPB)		EQL
N-Nitrosodiphenylamine	110000 UD		110000
4-Bromophenyl-phenylether	110000 UD		110000
Hexachlorobenzene	110000 UD		110000
Pentachlorophenol	20000 JD		270000
Phenanthrene	110000 UD		110000
Anthracene	110000 UD		110000
Carbazole	110000 UD		110000
Di-n-butylphthalate	110000 UD		110000
Fluoranthene	110000 UD		110000
Pyrene	87000 JD	Y	110000
Butylbenzylphthalate	110000 UD	Y	110000
3,3'-Dichlorobenzidine	110000 UD	Y	110000
Benz(a)anthracene	110000 UD	Y	110000
Chrysene	110000 UD	Y	110000
bis(2-Ethylhexyl)phthalate	110000 UD	Y	110000
Di-n-octylphthalate	110000 UD	Y	110000
Benzo(b)fluoranthene	110000 UD	Y	110000
Benzo(k)fluoranthene	110000 UD	Y	110000
Benzo(a)pyrene	110000 UD	Y	110000
Indeno(1,2,3-cd)pyrene	110000 UD	Y	110000
Dibenz(a,h)anthracene	110000 UD	Y	110000
Benzo(g,h,i)perylene	110000 UD	Y	110000

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Surrogate Recovery			QC LIMITS
2-Fluorophenol	70%JD		25-121%
Phenol-d5	89%JD		24-113%
2-Chlorophenol-d4	85%JD		20-130%
1,2-Dichlorobenzene-d4	91%JD		20-130%
Nitrobenzene-d5	87%JD		23-120%
2-Fluorobiphenyl	111%JD		30-115%
2,4,6-Tribromophenol	50%JD		19-122%
Terphenyl-d14	161%JD	Y	18-137%

TCL = Target Coumpound List EPA Contract Laboratory Program (OLM01)
EQL = Estimated Quantitation Limit (lower calibration limit)
U = Undetected at the given EQL
J = Detected below the EQL (estimated value)
E = Exceeds the upper calibration limit (estimated value)
B = Also detected in the associated Blank
D = Analysis at a secondary Dilution factor
Y = Associated internal standard failed method criteria
Note: All results are reported on a dry weight basis.
Reference: "EPA Test Methods for Evaluating Solid Waste", SW-846, November 1986, 3rd Edition.

HPN: 5039

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID:	QD2	Lab ID (HSN):	25161RI
Matrix:	SOIL	Filename:	4164P11
Date Sampled:	05/27/94	Sample Size:	1 grams
Date Received:	05/31/94	Extract Vol.:	500 uL
Date Extracted:	06/09/94	Dil. Factor:	10
Date Analyzed:	06/13/94	GPC Factor:	2
		% Moisture:	4.2

Compounds:	ug/Kg (PPB)		EQL
Phenol	100000	UD	100000
bis(2-Chloroethyl)ether	100000	UD	100000
2-Chlorophenol	100000	UD	100000
1,3-Dichlorobenzene	100000	UD	100000
1,4-Dichlorobenzene	100000	UD	100000
1,2-Dichlorobenzene	100000	UD	100000
2-Methylphenol	100000	UD	100000
2,2'-oxybis(1-Chloropropane)	100000	UD	100000
4-Methylphenol	100000	UD	100000
N-Nitroso-di-n-propylamine	100000	UD	100000
Hexachloroethane	100000	UD	100000
Nitrobenzene	100000	UD	100000
Isophorone	100000	UD	100000
2-Nitrophenol	100000	UD	100000
2,4-Dimethylphenol	100000	UD	100000
bis(2-Chloroethoxy)methane	100000	UD	100000
2,4-Dichlorophenol	100000	UD	100000
1,2,4-Trichlorobenzene	100000	UD	100000
Naphthalene	100000	UD	100000
4-Chloroaniline	100000	UD	100000
Hexachlorobutadiene	100000	UD	100000
4-Chloro-3-methylphenol	100000	UD	100000
2-Methylnaphthalene	100000	UD	100000
Hexachlorocyclopentadiene	100000	UD	100000
2,4,6-Trichlorophenol	100000	UD	100000
2,4,5-Trichlorophenol	260000	UD	260000
2-Chloronaphthalene	100000	UD	100000
2-Nitroaniline	260000	UD	260000
Dimethylphthalate	100000	UD	100000
Acenaphthylene	100000	UD	100000
2,6-Dinitrotoluene	100000	UD	100000
3-Nitroaniline	260000	UD	260000
Acenaphthene	100000	UD	100000
2,4-Dinitrophenol	260000	UD	260000
4-Nitrophenol	260000	UD	260000
Dibenzofuran	100000	UD	100000
2,4-Dinitrotoluene	100000	UD	100000
Diethylphthalate	100000	UD	100000
4-Chlorophenyl-phenylether	100000	UD	100000
Fluorene	100000	UD	100000
4-Nitroaniline	260000	UD	260000
4,6-Dinitro-2-methylphenol	260000	UD	260000

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID: QD3 Lab ID (HSN): 25162RI
Matrix: SOIL Filename: 4164P12

Compounds:	ug/Kg (PPB)		EQL
N-Nitrosodiphenylamine	110000 UD		110000
4-Bromophenyl-phenylether	110000 UD		110000
Hexachlorobenzene	110000 UD		110000
Pentachlorophenol	280000 UD		280000
Phenanthrene	110000 UD		110000
Anthracene	110000 UD		110000
Carbazole	110000 UD		110000
Di-n-butylphthalate	110000 UD		110000
Fluoranthene	110000 UD		110000
Pyrene	110000 UD	Y	110000
Butylbenzylphthalate	110000 UD	Y	110000
3,3'-Dichlorobenzidine	110000 UD	Y	110000
Benz(a)anthracene	110000 UD	Y	110000
Chrysene	110000 UD	Y	110000
bis(2-Ethylhexyl)phthalate	110000 UD	Y	110000
Di-n-octylphthalate	110000 UD	Y	110000
Benzo(b)fluoranthene	110000 UD	Y	110000
Benzo(k)fluoranthene	110000 UD	Y	110000
Benzo(a)pyrene	110000 UD	Y	110000
Indeno(1,2,3-cd)pyrene	110000 UD	Y	110000
Dibenz(a,h)anthracene	110000 UD	Y	110000
Benzo(g,h,i)perylene	110000 UD	Y	110000

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Surrogate Recovery			QC LIMITS
2-Fluorophenol	43%JD		25-121%
Phenol-d5	74%JD		24-113%
2-Chlorophenol-d4	61%JD		20-130%
1,2-Dichlorobenzene-d4	76%JD		20-130%
Nitrobenzene-d5	81%JD		23-120%
2-Fluorobiphenyl	103%JD		30-115%
2,4,6-Tribromophenol	21%JD		19-122%
Terphenyl-d14	158%JD	Y	18-137%

TCL - Target Coumpound List EPA Contract Laboratory Program (OLM01)
EQL - Estimated Quantitation Limit (lower calibration limit)
U - Undetected at the given EQL
J - Detected below the EQL (estimated value)
E - Exceeds the upper calibration limit (estimated value)
B - Also detected in the associated Blank
D - Analysis at a secondary Dilution factor
Y - Associated internal standard failed method criteria
Note: All results are reported on a dry weight basis.
Reference: "EPA Test Methods for Evaluating Solid Waste", SW-846, November 1986, 3rd Edition.

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID:	QD1	Lab ID (HSN):	25160
Matrix:	SOIL	Filename:	4163P11
Date Sampled:	05/27/94	Sample Size:	1 grams
Date Received:	05/31/94	Extract Vol.:	500 uL
Date Extracted:	06/09/94	Dil. Factor:	10
Date Analyzed:	06/13/94	GPC Factor:	2
		% Moisture:	6.4

Compounds:	ug/Kg (PPB)			EQL
Phenol	110000	UD	Y	110000
bis(2-Chloroethyl)ether	110000	UD	Y	110000
2-Chlorophenol	110000	UD	Y	110000
1,3-Dichlorobenzene	110000	UD	Y	110000
1,4-Dichlorobenzene	110000	UD	Y	110000
1,2-Dichlorobenzene	110000	UD	Y	110000
2-Methylphenol	110000	UD	Y	110000
2,2'-oxybis(1-Chloropropane)	110000	UD	Y	110000
4-Methylphenol	110000	UD	Y	110000
N-Nitroso-di-n-propylamine	110000	UD	Y	110000
Hexachloroethane	110000	UD	Y	110000
Nitrobenzene	110000	UD	Y	110000
Isophorone	110000	UD	Y	110000
2-Nitrophenol	110000	UD	Y	110000
2,4-Dimethylphenol	110000	UD	Y	110000
bis(2-Chloroethoxy)methane	110000	UD	Y	110000
2,4-Dichlorophenol	110000	UD	Y	110000
1,2,4-Trichlorobenzene	110000	UD	Y	110000
Naphthalene	110000	UD	Y	110000
4-Chloroaniline	110000	UD	Y	110000
Hexachlorobutadiene	110000	UD	Y	110000
4-Chloro-3-methylphenol	110000	UD	Y	110000
2-Methylnaphthalene	110000	UD	Y	110000
Hexachlorocyclopentadiene	110000	UD		110000
2,4,6-Trichlorophenol	110000	UD		110000
2,4,5-Trichlorophenol	270000	UD		270000
2-Chloronaphthalene	110000	UD		110000
2-Nitroaniline	270000	UD		270000
Dimethylphthalate	110000	UD		110000
Acenaphthylene	110000	UD		110000
2,6-Dinitrotoluene	110000	UD		110000
3-Nitroaniline	270000	UD		270000
Acenaphthene	110000	UD		110000
2,4-Dinitrophenol	270000	UD		270000
4-Nitrophenol	270000	UD		270000
Dibenzofuran	110000	UD		110000
2,4-Dinitrotoluene	110000	UD		110000
Diethylphthalate	110000	UD		110000
4-Chlorophenyl-phenylether	110000	UD		110000
Fluorene	110000	UD		110000
4-Nitroaniline	270000	UD		270000
4,6-Dinitro-2-methylphenol	270000	UD		270000

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID: QD1 Lab ID (HSN): 25160
Matrix: SOIL Filename: 4163P11

Compounds:	ug/Kg (PPB)	EQL
N-Nitrosodiphenylamine	110000 UD	110000
4-Bromophenyl-phenylether	110000 UD	110000
Hexachlorobenzene	110000 UD	110000
Pentachlorophenol	270000 UD	270000
Phenanthrene	110000 UD	110000
Anthracene	110000 UD	110000
Carbazole	110000 UD	110000
Di-n-butylphthalate	110000 UD	110000
Fluoranthene	110000 UD	110000
Pyrene	110000 UD	110000
Butylbenzylphthalate	110000 UD	110000
3,3'-Dichlorobenzidine	110000 UD	110000
Benz(a)anthracene	110000 UD	110000
Chrysene	110000 UD	110000
bis(2-Ethylhexyl)phthalate	110000 UD	110000
Di-n-octylphthalate	110000 UD	110000
Benzo(b)fluoranthene	110000 UD	110000
Benzo(k)fluoranthene	110000 UD	110000
Benzo(a)pyrene	110000 UD	110000
Indeno(1,2,3-cd)pyrene	110000 UD	110000
Dibenz(a,h)anthracene	110000 UD	110000
Benzo(g,h,i)perylene	110000 UD	110000

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Surrogate Recovery		QC LIMITS
2-Fluorophenol	43%JD Y	25-121%
Phenol-d5	73%JD Y	24-113%
2-Chlorophenol-d4	61%JD Y	20-130%
1,2-Dichlorobenzene-d4	69%JD Y	20-130%
Nitrobenzene-d5	85%JD Y	23-120%
2-Fluorobiphenyl	107%JD	30-115%
2,4,6-Tribromophenol	29%JD	19-122%
Terphenyl-d14	96%JD	18-137%

TCL = Target Coumpound List EPA Contract Laboratory Program (OLM01)
EQL = Estimated Quantitation Limit (lower calibration limit)
U = Undetected at the given EQL
J = Detected below the EQL (estimated value)
E = Exceeds the upper calibration limit (estimated value)
B = Also detected in the associated Blank
D = Analysis at a secondary Dilution factor
Y = Associated internal standard failed method criteria
Note: All results are reported on a dry weight basis.
Reference: "EPA Test Methods for Evaluating Solid Waste", SW-846, November 1986, 3rd Edition.

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SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spiked: QD1

HPN: 5039	HSN:	25160	25160MS	25160MSD
INST: VGTRIO1A	Filename:	4163P11	4163P10	4163P09
	Date Extracted:	06/09/94	06/09/94	06/09/94
	Date Analyzed:	06/13/94	06/13/94	06/13/94

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	80000	0	68000	85	26- 90
2-Chlorophenol	80000	0	68000	85	25-102
1,4-Dichlorobenzene	53000	0	45000	85	28-104
N-Nitroso-di-n-prop.(1)	53000	0	43000	81	41-126
1,2,4-Trichlorobenzene	53000	0	50000	94	38-107
4-Chloro-3-methylphenol	80000	0	68000	85	26-103
Acenaphthene	53000	0	42000	79	31-137
4-Nitrophenol	80000	0	45000	56	11-114
2,4-Dinitrotoluene	53000	0	41000	77	28- 89
Pentachlorophenol	80000	0	41000	51	17-109
Pyrene	53000	0	89000	168 *	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	80000	71000	89	5	35	26- 90
2-Chlorophenol	80000	67000	84	1	50	25-102
1,4-Dichlorobenzene	53000	49000	92	8	27	28-104
N-Nitroso-di-n-prop.(1)	53000	45000	85	5	38	41-126
1,2,4-Trichlorobenzene	53000	52000	98	4	23	38-107
4-Chloro-3-methylphenol	80000	69000	86	1	33	26-103
Acenaphthene	53000	43000	81	2	19	31-137
4-Nitrophenol	80000	27000	34	49	50	11-114
2,4-Dinitrotoluene	53000	41000	77	0	47	28- 89
Pentachlorophenol	80000	27000	34	40	47	17-109
Pyrene	53000	90000	170 *	1	36	35-142

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(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 2 out of 22 outside limits

COMMENTS: Elevated pyrene recovery due to failing internal standard.

FORM III SV-1 3/90

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID:	QD1	Lab ID (HSN):	25160MS
Matrix:	SOIL	Filename:	4163P10
Date Sampled:	05/27/94	Sample Size:	1 grams
Date Received:	05/31/94	Extract Vol.:	500 uL
Date Extracted:	06/09/94	Dil. Factor:	10
Date Analyzed:	06/13/94	GPC Factor:	2
		% Moisture:	6.4

Compounds:	ug/Kg (PPB)		EQL
Phenol	68000	JD	110000
bis(2-Chloroethyl)ether	110000	UD	110000
2-Chlorophenol	68000	JD	110000
1,3-Dichlorobenzene	110000	UD	110000
1,4-Dichlorobenzene	45000	JD	110000
1,2-Dichlorobenzene	110000	UD	110000
2-Methylphenol	110000	UD	110000
2,2'-oxybis(1-Chloropropane)	110000	UD	110000
4-Methylphenol	110000	UD	110000
N-Nitroso-di-n-propylamine	43000	JD	110000
Hexachloroethane	110000	UD	110000
Nitrobenzene	110000	UD	110000
Isophorone	110000	UD	110000
2-Nitrophenol	110000	UD	110000
2,4-Dimethylphenol	110000	UD	110000
bis(2-Chloroethoxy)methane	110000	UD	110000
2,4-Dichlorophenol	110000	UD	110000
1,2,4-Trichlorobenzene	50000	JD	110000
Naphthalene	110000	UD	110000
4-Chloroaniline	110000	UD	110000
Hexachlorobutadiene	110000	UD	110000
4-Chloro-3-methylphenol	68000	JD	110000
2-Methylnaphthalene	110000	UD	110000
Hexachlorocyclopentadiene	110000	UD	110000
2,4,6-Trichlorophenol	110000	UD	110000
2,4,5-Trichlorophenol	270000	UD	270000
2-Chloronaphthalene	110000	UD	110000
2-Nitroaniline	270000	UD	270000
Dimethylphthalate	110000	UD	110000
Acenaphthylene	110000	UD	110000
2,6-Dinitrotoluene	110000	UD	110000
3-Nitroaniline	270000	UD	270000
Acenaphthene	42000	JD	110000
2,4-Dinitrophenol	270000	UD	270000
4-Nitrophenol	45000	JD	270000
Dibenzofuran	110000	UD	110000
2,4-Dinitrotoluene	41000	JD	110000
Diethylphthalate	110000	UD	110000
4-Chlorophenyl-phenylether	110000	UD	110000
Fluorene	110000	UD	110000
4-Nitroaniline	270000	UD	270000
4,6-Dinitro-2-methylphenol	270000	UD	270000

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HFN: 5039

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID: QD1 Lab ID (HSN): 25160MS
Matrix: SOIL Filename: 4163P10

Compounds:	ug/Kg (PPB)		EQL
N-Nitrosodiphenylamine	110000 UD		110000
4-Bromophenyl-phenylether	110000 UD		110000
Hexachlorobenzene	110000 UD		110000
Pentachlorophenol	41000 JD		270000
Phenanthrene	110000 UD		110000
Anthracene	110000 UD		110000
Carbazole	110000 UD		110000
Di-n-butylphthalate	110000 UD		110000
Fluoranthene	110000 UD		110000
Pyrene	89000 JD	Y	110000
Butylbenzylphthalate	110000 UD	Y	110000
3,3'-Dichlorobenzidine	110000 UD	Y	110000
Benz(a)anthracene	110000 UD	Y	110000
Chrysene	110000 UD	Y	110000
bis(2-Ethylhexyl)phthalate	110000 UD	Y	110000
Di-n-octylphthalate	110000 UD	Y	110000
Benzo(b)fluoranthene	110000 UD	Y	110000
Benzo(k)fluoranthene	110000 UD	Y	110000
Benzo(a)pyrene	110000 UD	Y	110000
Indeno(1,2,3-cd)pyrene	110000 UD	Y	110000
Dibenz(a,h)anthracene	110000 UD	Y	110000
Benzo(g,h,i)perylene	110000 UD	Y	110000

Surrogate Recovery		QC LIMITS
2-Fluorophenol	78%JD	25-121%
Phenol-d5	91%JD	24-113%
2-Chlorophenol-d4	87%JD	20-130%
1,2-Dichlorobenzene-d4	87%JD	20-130%
Nitrobenzene-d5	87%JD	23-120%
2-Fluorobiphenyl	112%JD	30-115%
2,4,6-Tribromophenol	60%JD	19-122%
Terphenyl-d14	169%JD Y	18-137%

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TCL - Target Coumpound List EPA Contract Laboratory Program (OLM01)
EQL - Estimated Quantitation Limit (lower calibration limit)
U - Undetected at the given EQL
J - Detected below the EQL (estimated value)
E - Exceeds the upper calibration limit (estimated value)
B - Also detected in the associated Blank
D - Analysis at a secondary Dilution factor
Y - Associated internal standard failed method criteria
Note: All results are reported on a dry weight basis.
Reference: "EPA Test Methods for Evaluating Solid Waste", SW-846, November 1986, 3rd Edition.

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID:	QD1	Lab ID (HSN):	25160MSD
Matrix:	SOIL	Filename:	4163P09
Date Sampled:	05/27/94	Sample Size:	1 grams
Date Received:	05/31/94	Extract Vol.:	500 uL
Date Extracted:	06/09/94	Dil. Factor:	10
Date Analyzed:	06/13/94	GPC Factor:	2
		% Moisture:	6.4

Compounds:	ug/Kg (PPB)		EQL
Phenol	71000	JD	110000
bis(2-Chloroethyl)ether	110000	UD	110000
2-Chlorophenol	67000	JD	110000
1,3-Dichlorobenzene	110000	UD	110000
1,4-Dichlorobenzene	49000	JD	110000
1,2-Dichlorobenzene	110000	UD	110000
2-Methylphenol	110000	UD	110000
2,2'-oxybis(1-Chloropropane)	110000	UD	110000
4-Methylphenol	110000	UD	110000
N-Nitroso-di-n-propylamine	45000	JD	110000
Hexachloroethane	110000	UD	110000
Nitrobenzene	110000	UD	110000
Isophorone	110000	UD	110000
2-Nitrophenol	110000	UD	110000
2,4-Dimethylphenol	110000	UD	110000
bis(2-Chloroethoxy)methane	110000	UD	110000
2,4-Dichlorophenol	110000	UD	110000
1,2,4-Trichlorobenzene	52000	JD	110000
Naphthalene	110000	UD	110000
4-Chloroaniline	110000	UD	110000
Hexachlorobutadiene	110000	UD	110000
4-Chloro-3-methylphenol	69000	JD	110000
2-Methylnaphthalene	110000	UD	110000
Hexachlorocyclopentadiene	110000	UD	110000
2,4,6-Trichlorophenol	110000	UD	110000
2,4,5-Trichlorophenol	270000	UD	270000
2-Chloronaphthalene	110000	UD	110000
2-Nitroaniline	270000	UD	270000
Dimethylphthalate	110000	UD	110000
Acenaphthylene	110000	UD	110000
2,6-Dinitrotoluene	110000	UD	110000
3-Nitroaniline	270000	UD	270000
Acenaphthene	43000	JD	110000
2,4-Dinitrophenol	270000	UD	270000
4-Nitrophenol	27000	JD	270000
Dibenzofuran	110000	UD	110000
2,4-Dinitrotoluene	41000	JD	110000
Diethylphthalate	110000	UD	110000
4-Chlorophenyl-phenylether	110000	UD	110000
Fluorene	110000	UD	110000
4-Nitroaniline	270000	UD	270000
4,6-Dinitro-2-methylphenol	270000	UD	270000

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID: QD1
Matrix: SOIL

Lab ID (HSN): 25160MSD
Filename: 4163P09

Compounds:	ug/Kg (PPB)		EQL
N-Nitrosodiphenylamine	110000 UD		110000
4-Bromophenyl-phenylether	110000 UD		110000
Hexachlorobenzene	110000 UD		110000
Pentachlorophenol	27000 JD		270000
Phenanthrene	110000 UD		110000
Anthracene	110000 UD		110000
Carbazole	110000 UD		110000
Di-n-butylphthalate	110000 UD		110000
Fluoranthene	110000 UD		110000
Pyrene	90000 JD	Y	110000
Butylbenzylphthalate	110000 UD	Y	110000
3,3'-Dichlorobenzidine	110000 UD	Y	110000
Benz(a)anthracene	110000 UD	Y	110000
Chrysene	110000 UD	Y	110000
bis(2-Ethylhexyl)phthalate	110000 UD	Y	110000
Di-n-octylphthalate	110000 UD	Y	110000
Benzo(b)fluoranthene	110000 UD	Y	110000
Benzo(k)fluoranthene	110000 UD	Y	110000
Benzo(a)pyrene	110000 UD	Y	110000
Indeno(1,2,3-cd)pyrene	110000 UD	Y	110000
Dibenz(a,h)anthracene	110000 UD	Y	110000
Benzo(g,h,i)perylene	110000 UD	Y	110000

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Surrogate Recovery			QC LIMITS
2-Fluorophenol	71%JD		25-121%
Phenol-d5	93%JD		24-113%
2-Chlorophenol-d4	87%JD		20-130%
1,2-Dichlorobenzene-d4	95%JD		20-130%
Nitrobenzene-d5	90%JD		23-120%
2-Fluorobiphenyl	114%JD		30-115%
2,4,6-Tribromophenol	46%JD		19-122%
Terphenyl-d14	177%JD	Y	18-137%

TCL = Target Coumpound List EPA Contract Laboratory Program (OLM01)
EQL = Estimated Quantitation Limit (lower calibration limit)
U = Undetected at the given EQL
J = Detected below the EQL (estimated value)
E = Exceeds the upper calibration limit (estimated value)
B = Also detected in the associated Blank
D = Analysis at a secondary Dilution factor
Y = Associated internal standard failed method criteria
Note: All results are reported on a dry weight basis.
Reference: "EPA Test Methods for Evaluating Solid Waste", SW-846, November 1986, 3rd Edition.

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID:	QD2	Lab ID (HSN):	25161
Matrix:	SOIL	Filename:	4163P12
Date Sampled:	05/27/94	Sample Size:	1 grams
Date Received:	05/31/94	Extract Vol.:	500 uL
Date Extracted:	06/09/94	Dil. Factor:	10
Date Analyzed:	06/13/94	GPC Factor:	2
		% Moisture:	4.2

Compounds:	ug/Kg (PPB)	EQL
Phenol	100000 UD	100000
bis(2-Chloroethyl)ether	100000 UD	100000
2-Chlorophenol	100000 UD	100000
1,3-Dichlorobenzene	100000 UD	100000
1,4-Dichlorobenzene	100000 UD	100000
1,2-Dichlorobenzene	100000 UD	100000
2-Methylphenol	100000 UD	100000
2,2'-oxybis(1-Chloropropane)	100000 UD	100000
4-Methylphenol	100000 UD	100000
N-Nitroso-di-n-propylamine	100000 UD	100000
Hexachloroethane	100000 UD	100000
Nitrobenzene	100000 UD	100000
Isophorone	100000 UD	100000
2-Nitrophenol	100000 UD	100000
2,4-Dimethylphenol	100000 UD	100000
bis(2-Chloroethoxy)methane	100000 UD	100000
2,4-Dichlorophenol	100000 UD	100000
1,2,4-Trichlorobenzene	100000 UD	100000
Naphthalene	100000 UD	100000
4-Chloroaniline	100000 UD	100000
Hexachlorobutadiene	100000 UD	100000
4-Chloro-3-methylphenol	100000 UD	100000
2-Methylnaphthalene	100000 UD	100000
Hexachlorocyclopentadiene	100000 UD	100000
2,4,6-Trichlorophenol	100000 UD	100000
2,4,5-Trichlorophenol	260000 UD	260000
2-Chloronaphthalene	100000 UD	100000
2-Nitroaniline	260000 UD	260000
Dimethylphthalate	100000 UD	100000
Acenaphthylene	100000 UD	100000
2,6-Dinitrotoluene	100000 UD	100000
3-Nitroaniline	260000 UD	260000
Acenaphthene	100000 UD	100000
2,4-Dinitrophenol	260000 UD	260000
4-Nitrophenol	260000 UD	260000
Dibenzofuran	100000 UD	100000
2,4-Dinitrotoluene	100000 UD	100000
Diethylphthalate	100000 UD	100000
4-Chlorophenyl-phenylether	100000 UD	100000
Fluorene	100000 UD	100000
4-Nitroaniline	260000 UD	260000
4,6-Dinitro-2-methylphenol	260000 UD	260000

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID: QD2
Matrix: SOIL

Lab ID (HSN): 25161
Filename: 4163P12

Compounds:	ug/Kg (PPB)			EQL
N-Nitrosodiphenylamine	100000	UD		100000
4-Bromophenyl-phenylether	100000	UD		100000
Hexachlorobenzene	100000	UD		100000
Pentachlorophenol	260000	UD		260000
Phenanthrene	100000	UD		100000
Anthracene	100000	UD		100000
Carbazole	100000	UD		100000
Di-n-butylphthalate	100000	UD		100000
Fluoranthene	100000	UD		100000
Pyrene	100000	UD	Y	100000
Butylbenzylphthalate	100000	UD	Y	100000
3,3'-Dichlorobenzidine	100000	UD	Y	100000
Benz(a)anthracene	100000	UD	Y	100000
Chrysene	100000	UD	Y	100000
bis(2-Ethylhexyl)phthalate	100000	UD	Y	100000
Di-n-octylphthalate	100000	UD	Y	100000
Benzo(b)fluoranthene	100000	UD	Y	100000
Benzo(k)fluoranthene	100000	UD	Y	100000
Benzo(a)pyrene	100000	UD	Y	100000
Indeno(1,2,3-cd)pyrene	100000	UD	Y	100000
Dibenz(a,h)anthracene	100000	UD	Y	100000
Benzo(g,h,i)perylene	100000	UD	Y	100000

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Surrogate Recovery			QC LIMITS
2-Fluorophenol	62%JD		25-121%
Phenol-d5	72%JD		24-113%
2-Chlorophenol-d4	69%JD		20-130%
1,2-Dichlorobenzene-d4	70%JD		20-130%
Nitrobenzene-d5	82%JD		23-120%
2-Fluorobiphenyl	106%JD		30-115%
2,4,6-Tribromophenol	69%JD		19-122%
Terphenyl-d14	178%JD	Y	18-137%

TCL - Target Coumpound List EPA Contract Laboratory Program (OLM01)
EQL - Estimated Quantitation Limit (lower calibration limit)
U - Undetected at the given EQL
J - Detected below the EQL (estimated value)
E - Exceeds the upper calibration limit (estimated value)
B - Also detected in the associated Blank
D - Analysis at a secondary Dilution factor
Y - Associated internal standard failed method criteria
Note: All results are reported on a dry weight basis.
Reference: "EPA Test Methods for Evaluating Solid Waste", SW-846, November 1986, 3rd Edition.

HDN: 5039

Huntingdon

EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID:	QD3	Lab ID (HSN):	25162
Matrix:	SOIL	Filename:	4163P13
Date Sampled:	05/27/94	Sample Size:	1 grams
Date Received:	05/31/94	Extract Vol.:	500 uL
Date Extracted:	06/09/94	Dil. Factor:	10
Date Analyzed:	06/13/94	GPC Factor:	2
		% Moisture:	10.7

Compounds:	ug/Kg (PPB)		EQL
Phenol	110000	UD	110000
bis(2-Chloroethyl)ether	110000	UD	110000
2-Chlorophenol	110000	UD	110000
1,3-Dichlorobenzene	110000	UD	110000
1,4-Dichlorobenzene	110000	UD	110000
1,2-Dichlorobenzene	110000	UD	110000
2-Methylphenol	110000	UD	110000
2,2'-oxybis(1-Chloropropane)	110000	UD	110000
4-Methylphenol	110000	UD	110000
N-Nitroso-di-n-propylamine	110000	UD	110000
Hexachloroethane	110000	UD	110000
Nitrobenzene	110000	UD	110000
Isophorone	110000	UD	110000
2-Nitrophenol	110000	UD	110000
2,4-Dimethylphenol	110000	UD	110000
bis(2-Chloroethoxy)methane	110000	UD	110000
2,4-Dichlorophenol	110000	UD	110000
1,2,4-Trichlorobenzene	110000	UD	110000
Naphthalene	110000	UD	110000
4-Chloroaniline	110000	UD	110000
Hexachlorobutadiene	110000	UD	110000
4-Chloro-3-methylphenol	110000	UD	110000
2-Methylnaphthalene	110000	UD	110000
Hexachlorocyclopentadiene	110000	UD	110000
2,4,6-Trichlorophenol	110000	UD	110000
2,4,5-Trichlorophenol	280000	UD	280000
2-Chloronaphthalene	110000	UD	110000
2-Nitroaniline	280000	UD	280000
Dimethylphthalate	110000	UD	110000
Acenaphthylene	110000	UD	110000
2,6-Dinitrotoluene	110000	UD	110000
3-Nitroaniline	280000	UD	280000
Acenaphthene	110000	UD	110000
2,4-Dinitrophenol	280000	UD	280000
4-Nitrophenol	280000	UD	280000
Dibenzofuran	110000	UD	110000
2,4-Dinitrotoluene	110000	UD	110000
Diethylphthalate	110000	UD	110000
4-Chlorophenyl-phenylether	110000	UD	110000
Fluorene	110000	UD	110000
4-Nitroaniline	280000	UD	280000
4,6-Dinitro-2-methylphenol	280000	UD	280000

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EPA METHOD 8270
TCL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Client ID: QD3
Matrix: SOIL

Lab ID (HSN): 25162
Filename: 4163P13

Compounds:	ug/Kg (PPB)			EQL
N-Nitrosodiphenylamine	110000	UD		110000
4-Bromophenyl-phenylether	110000	UD		110000
Hexachlorobenzene	110000	UD		110000
Pentachlorophenol	280000	UD		280000
Phenanthrene	110000	UD		110000
Anthracene	110000	UD		110000
Carbazole	110000	UD		110000
Di-n-butylphthalate	110000	UD		110000
Fluoranthene	110000	UD		110000
Pyrene	110000	UD	Y	110000
Butylbenzylphthalate	110000	UD	Y	110000
3,3'-Dichlorobenzidine	110000	UD	Y	110000
Benz(a)anthracene	110000	UD	Y	110000
Chrysene	110000	UD	Y	110000
bis(2-Ethylhexyl)phthalate	110000	UD	Y	110000
Di-n-octylphthalate	110000	UD	Y	110000
Benzo(b)fluoranthene	110000	UD	Y	110000
Benzo(k)fluoranthene	110000	UD	Y	110000
Benzo(a)pyrene	110000	UD	Y	110000
Indeno(1,2,3-cd)pyrene	110000	UD	Y	110000
Dibenz(a,h)anthracene	110000	UD	Y	110000
Benzo(g,h,i)perylene	110000	UD	Y	110000

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Surrogate Recovery				QC LIMITS
2-Fluorophenol	42%JD			25-121%
Phenol-d5	78%JD			24-113%
2-Chlorophenol-d4	59%JD			20-130%
1,2-Dichlorobenzene-d4	76%JD			20-130%
Nitrobenzene-d5	86%JD			23-120%
2-Fluorobiphenyl	110%JD			30-115%
2,4,6-Tribromophenol	17%JD			19-122%
Terphenyl-d14	169%JD		Y	18-137%

TCL - Target Coumpound List EPA Contract Laboratory Program (OLM01)
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