Tetra Tech EM Inc. (formerly PRC Environmental Management, Inc.)

Marquis Two Tower ◆ 285 Peachtree Center Avenue, Suite 900 ◆ Atlanta, GA 30303 ◆ (404) 522-2867 ◆ FAX (404) 577-4070

October 2, 1997

Mr. Tillman McAdams
EPA Site Assessment Manager
U.S. Environmental Protection Agency
61 Forsyth Street, SW, 10th Floor
Atlanta, Georgia 30303

Subject: **EPA Contract No. 68-W5-0021**
Technical Directive Document No. 04-9703-0005
Browns Dump
Private Residence Sampling Results

Dear Mr. McAdams:

The purpose of this letter is to inform you of the residential sample results collected July 7, 1997. All samples were collected from a depth of 0-3' below land surface in accordance with U.S. Environmental Protection Agency (EPA) Science and Ecosystem Support Division (SESD) protocal. As we have previously discussed, some of the lead data is flagged with a JN qualifier. The EPA SESD, stated that the data is flagged due to interference from high amounts of aluminum and/or iron. Further, SESD explained that this is a Contract Laboratory Program standard flag, and the data should not be discounted. They recommend further confirmatory sampling, with analysis conducted at EPA SESD.

The Toxic Equivalency Factor for each dioxin sample is also presented below. The analytical data sheets which provide a detailed account of all compounds are attached. Please note that samples shown below represent only the samples which were collected in the school playground area and in residential yards. Other samples were collected on the school property, however, they were located behind the Emergency Response and Removal Branch fencing were not included in this table. A full sample location table and map will be provided in the Expanded Site Investigation.

contains recycled fiber and is recyclable

Residence	Sample Number	Lead Level (mg/kg)	Dioxin TEQ Level (ng/kg)
[redacted]	BD-SS-02	950J mg/kg	15J
[redacted]	BD-SS-03	370J	44J
[redacted]	BD-SS-04	200J	13
[redacted]	BD-SS-05	100J	20J
[redacted]	BD-SS-13	1,900JN	210
[redacted]	BD-SS-14 BD-SS-16	460J 180J	12J 19J
[redacted]	BD-SS-07 BD-SS-08 BD-SS-09 BD-SS-10	150J 380J 5J 51J	11J 17J 0.4J 2

If you have any questions or comments, or if we can provide any additional information, please call me at (404) 225-5507.

Sincerely,

Kristen Lombard

Kristen Lombard
Project Scientist

cc: Doug Thompson, EPA Project Officer
Debbie Davidson, EPA Contracting Officer
Steve Pierce, Tetra Tech Program Manager
Lesley Meador, Tetra Tech Project Manager

DATA QUALIFIER REPORT

Project No.: 97-0293

Site Name: Brown's Dump

Affected Samples	Analyte	Flag Used	Reason
All	Total congeners	J	Assumed Resp. Factors/ Cal. Stds not available for all congeners
10184, 10185, 10186, 10188, 10189, 10190, 10191, 10192, 10193, 10196, 10197, 10198, 10199	TCDD	R	Unacceptable PE Sample performance
10187, 10194, 10195	TCDD	J	Unacceptable PE Sample performance
10184	All-HxCDD, 2,3,4,6,7,8-HxCDF	J	1
10185	OCDF	J	1
10186	HpCDD, 1,2,3,7,8-PeCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, OCDF	J	1
10187	PeCDD, 2,3,4,7,8-PeCDF, 2,3,4,6,7,8-HxCDF	J	1
10188	1,2,3,4,7,8-HxCDD, 2,3,4,7,8-PeCDF	J	1
10189	OCDD	J	2
	PeCDD, 1,2,3,4,7,8-HxCDD	J	1
10190	1,2,3,4,7,8,9-HpCDF	J	1
10191	1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,7,8,9-HpCDF	J	High IS recovery (non-detect in dilution)
	1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD	J	1 (taken from dilution because of IS recovery)
	TCDF	J	Low IS recovery on conf. column

DATA QUALIFIER REPORT

Project No.: 97-0293

Site Name: Brown's Dump

Affected Samples	Analyte	Flag Used	Reason
10193	OCDF	J	1
10194	OCDD	J	2
	2,3,4,7,8-PeCDF	J	1
10196	TCDF	UJ	low IS recovery, conf. column
	PeCDD, 1,2,3,4,7,8-HxCDD, 2,3,4,7,8-PeCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,4,7,8,9-HpCDF	J	1
10197	OCDD	J	2
	TCDF	J	Primary column result not confirmed by second column
	PeCDD, 1,2,3,4,7,8-HxCDD, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8,9-HpCDF	J	1
10198	PeCDD, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8,9-HpCDF	J	1
10199	OCDD	J	2
	1,2,3,7,8,9-HxCDD, 2,3,4,6,7,8-HxCDF	J	1

TEQ's : The Toxic Equivalent (TEQ) represents a summation of values from the individual equivalents that are calculated for each of the 2,3,7,8 containing isomers. If 10% or greater of the TEQ value was from data considered to be estimated, then the TEQ is reported as estimated (J flag).

Abbreviation Key:

TCDD = Tetrachlorodibenzodioxin TCDF = Tetrachlorodibenzofuran
PeCDD = Pentachlorodibenzodioxin PeCDF = Pentachlorodibenzofuran
HxCDD = Hexachlorodibenzodioxin HxCDF = Hexachlorodibenzofuran
HpCDD = Heptachlorodibenzodioxin HpCDF = Heptachlorodibenzofuran
OCDD = Octachlorodibenzodioxin OCDF = Octachlorodibenzofuran
IS = Internal Standard

Reason Codes:

1. Results lower than the minimum quantitation limit
2. Results higher than the maximum calibration limit

Sample 10185 FY 1997 Project: 97-0293

DIOXIN SCAN

Facility: BROWN'S DUMP JACKSONVILLE, FL

Program: NSF

Id/Station: BDSS10

Media: SOIL D Number: SS10

SAS Number: DIOX

Org Contractor: SWOK

Printed by: John McConney

Collected By:

Beginning: 07/08/97 11:10

Ending:

RESULTS	UNITS	ANALYTE
2.1UR	NG/KG	2,3,7,8-TETRACHLORODIBENZODIOXIN
12J	NG/KG	TETRACHLORODIBENZODIOXIN (TOTAL)
5.3U	NG/KG	1,2,3,7,8-PENTACHLORODIBENZODIOXIN
5.3UJ	NG/KG	PENTACHLORODIBENZODIOXIN (TOTAL)
5.3U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZODIOXIN
5.3U	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZODIOXIN
5.3U	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZODIOXIN
5.3UJ	NG/KG	HEXACHLORODIBENZODIOXIN (TOTAL)
25	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN
54J	NG/KG	HEPTACHLORODIBENZODIOXIN (TOTAL)
170	NG/KG	OCTACHLORODIBENZODIOXIN
2.1U	NG/KG	2,3,7,8-TETRACHLORODIBENZOFURAN
51J	NG/KG	TETRACHLORODIBENZOFURAN (TOTAL)
31	NG/KG	1,2,3,7,8-PENTACHLORODIBENZOFURAN
5.3U	NG/KG	2,3,4,7,8-PENTACHLORODIBENZOFURAN
160J	NG/KG	PENTACHLORODIBENZOFURAN (TOTAL)
5.3U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN
10U	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN
5.3U	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN
5.3U	NG/KG	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN
57J	NG/KG	HEXACHLORODIBENZOFURAN (TOTAL)
20U	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN
5.3U	NG/KG	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN
5.3UJ	NG/KG	HEPTACHLORODIBENZOFURAN (TOTAL)
9.1J	NG/KG	OCTACHLORODIBENZOFURAN
2.0	NG/KG	TEQ (TOXIC. EQUIV. VALUE, FROM I-TEF/89)
6	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 10186 FY 1997 Project: 97-0293

DIOXIN SCAN

Facility: BROWN'S DUMP JACKSONVILLE, FL

Program: NSF

Id/Station: BDSS09

Media: SOIL D Number: SS09

SAS Number:DIOX

Org Contractor: SWOK

Printed by: John McConney

Collected By:

Beginning: 07/08/97 12:10

Ending:

RESULTS	UNITS	ANALYTE
2.3UR	NG/KG	2,3,7,8-TETRACHLORODIBENZODIOXIN
2.3UJ	NG/KG	TETRACHLORODIBENZODIOXIN (TOTAL)
5.7J	NG/KG	1,2,3,7,8-PENTACHLORODIBENZODIOXIN
5.7UJ	NG/KG	PENTACHLORODIBENZODIOXIN (TOTAL)
5.7U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZODIOXIN
5.7U	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZODIOXIN
5.7U	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZODIOXIN
5.7UJ	NG/KG	HEXACHLORODIBENZODIOXIN (TOTAL)
4.9J	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN
11J	NG/KG	HEPTACHLORODIBENZODIOXIN (TOTAL)
24	NG/KG	OCTACHLORODIBENZODIOXIN
2.3U	NG/KG	2,3,7,8-TETRACHLORODIBENZOFURAN
1.2J	NG/KG	TETRACHLORODIBENZOFURAN (TOTAL)
2.7J	NG/KG	1,2,3,7,8-PENTACHLORODIBENZOFURAN
5.7U	NG/KG	2,3,4,7,8-PENTACHLORODIBENZOFURAN
13J	NG/KG	PENTACHLORODIBENZOFURAN (TOTAL)
5.7U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN
1.2J	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN
5.7U	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN
5.7U	NG/KG	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN
5.3J	NG/KG	HEXACHLORODIBENZOFURAN (TOTAL)
2.3J	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN
5.7U	NG/KG	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN
3.5J	NG/KG	HEPTACHLORODIBENZOFURAN (TOTAL)
3.1J	NG/KG	OCTACHLORODIBENZOFURAN
0.4J	NG/KG	TEQ (TOXIC. EQUIV. VALUE, FROM I-TEF/89)
12	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 10187 FY 1997 Project: 97-0293

DIOXIN SCAN

Facility: BROWN'S DUMP JACKSONVILLE, FL

Program: NSF SAS Number:DIOX

Id/Station: BDSS07

Media: SOIL D Number: SS07 Org Contractor: SWOK

Printed by: John McConney

Collected By:

Beginning: 07/08/97 12:30

Ending:

RESULTS	UNITS	ANALYTE
1.9J	NG/KG	2,3,7,8-TETRACHLORODIBENZODIOXIN
9.7J	NG/KG	TETRACHLORODIBENZODIOXIN (TOTAL)
4.8J	NG/KG	1,2,3,7,8-PENTACHLORODIBENZODIOXIN
9.5J	NG/KG	PENTACHLORODIBENZODIOXIN (TOTAL)
5.5U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZODIOXIN
8.2	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZODIOXIN
5.5U	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZODIOXIN
28J	NG/KG	HEXACHLORODIBENZODIOXIN (TOTAL)
99	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN
200J	NG/KG	HEPTACHLORODIBENZODIOXIN (TOTAL)
530	NG/KG	OCTACHLORODIBENZODIOXIN
3.6	NG/KG	2,3,7,8-TETRACHLORODIBENZOFURAN
38J	NG/KG	TETRACHLORODIBENZOFURAN (TOTAL)
19	NG/KG	1,2,3,7,8-PENTACHLORODIBENZOFURAN
1.2J	NG/KG	2,3,4,7,8-PENTACHLORODIBENZOFURAN
99J	NG/KG	PENTACHLORODIBENZOFURAN (TOTAL)
20U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN
16	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN
5.5U	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN
2.9J	NG/KG	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN
49J	NG/KG	HEXACHLORODIBENZOFURAN (TOTAL)
44	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN
5.5U	NG/KG	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN
68J	NG/KG	HEPTACHLORODIBENZOFURAN (TOTAL)
40	NG/KG	OCTACHLORODIBENZOFURAN
11J	NG/KG	TEQ (TOXIC. EQUIV. VALUE, FROM I-TEF/89)
10	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 10188 FY 1997 Project: 97-0293

DIOXIN SCAN

Facility: BROWN'S DUMP JACKSONVILLE, FL

Program: NSF

Id/Station: BDSS04

Media: SOIL D Number: SS04

SAS Number: DIOX

Org Contractor: SWOK

Printed by: John McConney

Collected By:

Beginning: 07/09/97 10:45

Ending:

RESULTS	UNITS	ANALYTE
2.3UR	NG/KG	2,3,7,8-TETRACHLORODIBENZODIOXIN
4.3J	NG/KG	TETRACHLORODIBENZODIOXIN (TOTAL)
5.7U	NG/KG	1,2,3,7,8-PENTACHLORODIBENZODIOXIN
5.7U	NG/KG	PENTACHLORODIBENZODIOXIN (TOTAL)
2.7J	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZODIOXIN
14	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZODIOXIN
10	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZODIOXIN
140J	NG/KG	HEXACHLORODIBENZODIOXIN (TOTAL)
270	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN
540J	NG/KG	HEPTACHLORODIBENZODIOXIN (TOTAL)
1700	NG/KG	OCTACHLORODIBENZODIOXIN
4.6	NG/KG	2,3,7,8-TETRACHLORODIBENZOFURAN
38J	NG/KG	TETRACHLORODIBENZOFURAN (TOTAL)
17	NG/KG	1,2,3,7,8-PENTACHLORODIBENZOFURAN
1.9J	NG/KG	2,3,4,7,8-PENTACHLORODIBENZOFURAN
170J	NG/KG	PENTACHLORODIBENZOFURAN (TOTAL)
60U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN
15	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN
5.7U	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN
9.6	NG/KG	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN
110J	NG/KG	HEXACHLORODIBENZOFURAN (TOTAL)
97	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN
5.7U	NG/KG	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN
98J	NG/KG	HEPTACHLORODIBENZOFURAN (TOTAL)
100	NG/KG	OCTACHLORODIBENZOFURAN
13	NG/KG	TEQ (TOXIC. EQUIV. VALUE, FROM I-TEF/89)
12	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 10189 FY 1997 Project: 97-0293

DIOXIN SCAN

Facility: BROWN'S DUMP JACKSONVILLE, FL

Program: NSF

Id/Station: BDSS08

Media: SOIL D Number: SS08

SAS Number: DIOX

Org Contractor: SWOK

Printed by: John McConney

Collected By:

Beginning: 07/09/97 11:00

Ending:

RESULTS	UNITS	ANALYTE
2.1UR	NG/KG	2,3,7,8-TETRACHLORODIBENZODIOXIN
14J	NG/KG	TETRACHLORODIBENZODIOXIN (TOTAL)
3.0J	NG/KG	1,2,3,7,8-PENTACHLORODIBENZODIOXIN
11J	NG/KG	PENTACHLORODIBENZODIOXIN (TOTAL)
3.1J	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZODIOXIN
16	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZODIOXIN
11	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZODIOXIN
150J	NG/KG	HEXACHLORODIBENZODIOXIN (TOTAL)
350	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN
710J	NG/KG	HEPTACHLORODIBENZODIOXIN (TOTAL)
2500J	NG/KG	OCTACHLORODIBENZODIOXIN
5.7	NG/KG	2,3,7,8-TETRACHLORODIBENZOFURAN
51J	NG/KG	TETRACHLORODIBENZOFURAN (TOTAL)
22	NG/KG	1,2,3,7,8-PENTACHLORODIBENZOFURAN
5.8	NG/KG	2,3,4,7,8-PENTACHLORODIBENZOFURAN
230J	NG/KG	PENTACHLORODIBENZOFURAN (TOTAL)
70U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN
20U	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN
5.3U	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN
11	NG/KG	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN
89J	NG/KG	HEXACHLORODIBENZOFURAN (TOTAL)
120	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN
5.3U	NG/KG	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN
190J	NG/KG	HEPTACHLORODIBENZOFURAN (TOTAL)
76	NG/KG	OCTACHLORODIBENZOFURAN
17J	NG/KG	TEQ (TOXIC. EQUIV. VALUE, FROM I-TEF/89)
6	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 10194 FY 1997 Project: 97-0293

DIOXIN SCAN

Facility: BROWN'S DUMP JACKSONVILLE, FL

Program: NSF

Id/Station: BDSS03

Media: SOIL D Number: SS03

SAS Number: DIOX

Org Contractor: SWOK

Printed by: John McConney

Collected By:

Beginning: 07/09/97 15:50

Ending:

RESULTS	UNITS	ANALYTE
4.2J	NG/KG	2,3,7,8-TETRACHLORODIBENZODIOXIN
57J	NG/KG	TETRACHLORODIBENZODIOXIN (TOTAL)
12	NG/KG	1,2,3,7,8-PENTACHLORODIBENZODIOXIN
82J	NG/KG	PENTACHLORODIBENZODIOXIN (TOTAL)
13	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZODIOXIN
41	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZODIOXIN
47	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZODIOXIN
580J	NG/KG	HEXACHLORODIBENZODIOXIN (TOTAL)
1000	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN
2200J	NG/KG	HEPTACHLORODIBENZODIOXIN (TOTAL)
7300J	NG/KG	OCTACHLORODIBENZODIOXIN
14	NG/KG	2,3,7,8-TETRACHLORODIBENZOFURAN
130J	NG/KG	TETRACHLORODIBENZOFURAN (TOTAL)
6.4U	NG/KG	1,2,3,7,8-PENTACHLORODIBENZOFURAN
4.5J	NG/KG	2,3,4,7,8-PENTACHLORODIBENZOFURAN
240J	NG/KG	PENTACHLORODIBENZOFURAN (TOTAL)
6.4U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN
20U	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN
6.4U	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN
8.1	NG/KG	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN
130J	NG/KG	HEXACHLORODIBENZOFURAN (TOTAL)
140	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN
6.4U	NG/KG	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN
360J	NG/KG	HEPTACHLORODIBENZOFURAN (TOTAL)
390	NG/KG	OCTACHLORODIBENZOFURAN
44J	NG/KG	TEQ (TOXIC. EQUIV. VALUE, FROM I-TEF/89)
22	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 10195 FY 1997 Project: 97-0293

DIOXIN SCAN

Facility: BROWN'S DUMP JACKSONVILLE, FL

Program: NSF

Id/Station: BDSS13

Media: SOIL D Number: SS13

SAS Number: DIOX

Org Contractor: SWOK

Printed by: John McConney

Collected By:

Beginning: 07/09/97 15:15

Ending:

RESULTS	UNITS	ANALYTE
7.0J	NG/KG	2,3,7,8-TETRACHLORODIBENZODIOXIN
300J	NG/KG	TETRACHLORODIBENZODIOXIN (TOTAL)
51	NG/KG	1,2,3,7,8-PENTACHLORODIBENZODIOXIN
350J	NG/KG	PENTACHLORODIBENZODIOXIN (TOTAL)
110	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZODIOXIN
200	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZODIOXIN
240	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZODIOXIN
1900J	NG/KG	HEXACHLORODIBENZODIOXIN (TOTAL)
3300	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN
6000J	NG/KG	HEPTACHLORODIBENZODIOXIN (TOTAL)
23000	NG/KG	OCTACHLORODIBENZODIOXIN
41	NG/KG	2,3,7,8-TETRACHLORODIBENZOFURAN
650J	NG/KG	TETRACHLORODIBENZOFURAN (TOTAL)
230	NG/KG	1,2,3,7,8-PENTACHLORODIBENZOFURAN
59	NG/KG	2,3,4,7,8-PENTACHLORODIBENZOFURAN
1200J	NG/KG	PENTACHLORODIBENZOFURAN (TOTAL)
240U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN
6.2U	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN
6.2U	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN
39	NG/KG	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN
930J	NG/KG	HEXACHLORODIBENZOFURAN (TOTAL)
1100	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN
54	NG/KG	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN
1100J	NG/KG	HEPTACHLORODIBENZOFURAN (TOTAL)
2900	NG/KG	OCTACHLORODIBENZOFURAN
210	NG/KG	TEQ (TOXIC. EQUIV. VALUE, FROM I-TEF/89)
19	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 10196 FY 1997 Project: 97-0293

DIOXIN SCAN

Facility: BROWN'S DUMP JACKSONVILLE, FL

Program: NSF

Id/Station: BDSS14

Media: SOIL D Number: SS14

SAS Number: DIOX

Org Contractor: SWOK

Printed by: John McConney

Collected By:

Beginning: 07/09/97 14:15

Ending:

RESULTS	UNITS	ANALYTE
2.3UR	NG/KG	2,3,7,8-TETRACHLORODIBENZODIOXIN
8.9J	NG/KG	TETRACHLORODIBENZODIOXIN (TOTAL)
1.5J	NG/KG	1,2,3,7,8-PENTACHLORODIBENZODIOXIN
6.1J	NG/KG	PENTACHLORODIBENZODIOXIN (TOTAL)
3.5J	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZODIOXIN
9.1	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZODIOXIN
7.7	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZODIOXIN
63J	NG/KG	HEXACHLORODIBENZODIOXIN (TOTAL)
230	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN
390J	NG/KG	HEPTACHLORODIBENZODIOXIN (TOTAL)
1500	NG/KG	OCTACHLORODIBENZODIOXIN
3UJ	NG/KG	2,3,7,8-TETRACHLORODIBENZOFURAN
13J	NG/KG	TETRACHLORODIBENZOFURAN (TOTAL)
8.5	NG/KG	1,2,3,7,8-PENTACHLORODIBENZOFURAN
3.1J	NG/KG	2,3,4,7,8-PENTACHLORODIBENZOFURAN
85J	NG/KG	PENTACHLORODIBENZOFURAN (TOTAL)
20U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN
3.6J	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN
5.8U	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN
5.8	NG/KG	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN
99J	NG/KG	HEXACHLORODIBENZOFURAN (TOTAL)
220	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN
2.8J	NG/KG	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN
220J	NG/KG	HEPTACHLORODIBENZOFURAN (TOTAL)
130	NG/KG	OCTACHLORODIBENZOFURAN
12J	NG/KG	TEQ (TOXIC. EQUIV. VALUE, FROM I-TEF/89)
13	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 10197 FY 1997 Project: 97-0293

DIOXIN SCAN

Facility: BROWN'S DUMP JACKSONVILLE, FL

Program: NSF

Id/Station: BDSS16

Media: SOIL D Number: SS16

SAS Number: DIOX

Org Contractor: SWOK

Printed by: John McConney

Collected By:

Beginning: 07/09/97 16:10

Ending:

RESULTS	UNITS	ANALYTE
2.4UR	NG/KG	2,3,7,8-TETRACHLORODIBENZODIOXIN
14J	NG/KG	TETRACHLORODIBENZODIOXIN (TOTAL)
1.8J	NG/KG	1,2,3,7,8-PENTACHLORODIBENZODIOXIN
9.1J	NG/KG	PENTACHLORODIBENZODIOXIN (TOTAL)
4.6J	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZODIOXIN
16	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZODIOXIN
10	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZODIOXIN
100J	NG/KG	HEXACHLORODIBENZODIOXIN (TOTAL)
440	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN
770J	NG/KG	HEPTACHLORODIBENZODIOXIN (TOTAL)
3500J	NG/KG	OCTACHLORODIBENZODIOXIN
5.2J	NG/KG	2,3,7,8-TETRACHLORODIBENZOFURAN
32J	NG/KG	TETRACHLORODIBENZOFURAN (TOTAL)
9.2	NG/KG	1,2,3,7,8-PENTACHLORODIBENZOFURAN
2.5J	NG/KG	2,3,4,7,8-PENTACHLORODIBENZOFURAN
95J	NG/KG	PENTACHLORODIBENZOFURAN (TOTAL)
30U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN
7.7	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN
6.0U	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN
6.4	NG/KG	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN
120J	NG/KG	HEXACHLORODIBENZOFURAN (TOTAL)
290	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN
3.7J	NG/KG	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN
290J	NG/KG	HEPTACHLORODIBENZOFURAN (TOTAL)
200	NG/KG	OCTACHLORODIBENZOFURAN
19J	NG/KG	TEQ (TOXIC. EQUIV. VALUE, FROM I-TEF/89)
17	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 10198 FY 1997 Project: 97-0293

DIOXIN SCAN

Facility: BROWN'S DUMP JACKSONVILLE, FL

Program: NSF

Id/Station: BDSS02

Media: SOIL D Number: SS02

SAS Number: DIOX

Org Contractor: SWOK

Printed by: John McConney

Collected By:

Beginning: 07/09/97 16:40

Ending:

RESULTS	UNITS	ANALYTE
2.2UR	NG/KG	2,3,7,8-TETRACHLORODIBENZODIOXIN
9.0J	NG/KG	TETRACHLORODIBENZODIOXIN (TOTAL)
2.5J	NG/KG	1,2,3,7,8-PENTACHLORODIBENZODIOXIN
11J	NG/KG	PENTACHLORODIBENZODIOXIN (TOTAL)
6U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZODIOXIN
18	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZODIOXIN
15	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZODIOXIN
150J	NG/KG	HEXACHLORODIBENZODIOXIN (TOTAL)
310	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN
580J	NG/KG	HEPTACHLORODIBENZODIOXIN (TOTAL)
1600	NG/KG	OCTACHLORODIBENZODIOXIN
4.5	NG/KG	2,3,7,8-TETRACHLORODIBENZOFURAN
80J	NG/KG	TETRACHLORODIBENZOFURAN (TOTAL)
10U	NG/KG	1,2,3,7,8-PENTACHLORODIBENZOFURAN
3.4J	NG/KG	2,3,4,7,8-PENTACHLORODIBENZOFURAN
240J	NG/KG	PENTACHLORODIBENZOFURAN (TOTAL)
50U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN
8.5	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN
5.6U	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN
14	NG/KG	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN
220J	NG/KG	HEXACHLORODIBENZOFURAN (TOTAL)
110	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN
3.7J	NG/KG	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN
110J	NG/KG	HEPTACHLORODIBENZOFURAN (TOTAL)
120	NG/KG	OCTACHLORODIBENZOFURAN
15J	NG/KG	TEQ (TOXIC. EQUIV. VALUE, FROM I-TEF/89)
11	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 10199 FY 1997 Project: 97-0293

DIOXIN SCAN

Facility: BROWN'S DUMP JACKSONVILLE, FL

Program: NSF

Id/Station: BDSS05

Media: SOIL D Number: SS05

SAS Number: DIOX

Org Contractor: SWOK

Printed by: John McConney

Collected By:

Beginning: 07/09/97 17:00

Ending:

RESULTS	UNITS	ANALYTE
2.2UR	NG/KG	2,3,7,8-TETRACHLORODIBENZODIOXIN
2.9J	NG/KG	TETRACHLORODIBENZODIOXIN (TOTAL)
5.4U	NG/KG	1,2,3,7,8-PENTACHLORODIBENZODIOXIN
1.3J	NG/KG	PENTACHLORODIBENZODIOXIN (TOTAL)
5.4U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZODIOXIN
15	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZODIOXIN
5.3J	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZODIOXIN
49J	NG/KG	HEXACHLORODIBENZODIOXIN (TOTAL)
410	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN
1200J	NG/KG	HEPTACHLORODIBENZODIOXIN (TOTAL)
11000J	NG/KG	OCTACHLORODIBENZODIOXIN
4U	NG/KG	2,3,7,8-TETRACHLORODIBENZOFURAN
16J	NG/KG	TETRACHLORODIBENZOFURAN (TOTAL)
11	NG/KG	1,2,3,7,8-PENTACHLORODIBENZOFURAN
5.4U	NG/KG	2,3,4,7,8-PENTACHLORODIBENZOFURAN
84J	NG/KG	PENTACHLORODIBENZOFURAN (TOTAL)
30U	NG/KG	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN
6.9	NG/KG	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN
5.4U	NG/KG	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN
3.2J	NG/KG	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN
48J	NG/KG	HEXACHLORODIBENZOFURAN (TOTAL)
80	NG/KG	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN
5.4U	NG/KG	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN
380J	NG/KG	HEPTACHLORODIBENZOFURAN (TOTAL)
180	NG/KG	OCTACHLORODIBENZOFURAN
20J	NG/KG	TEQ (TOXIC. EQUIV. VALUE, FROM I-TEF/89)
7	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane