

**DIOXIN/FURAN
EVALUATION REPORT FOR PES
PC02326**

EPA/GLP No.

NA

Report date: 09/15/1999

Method: 8290

Lab name: quanterra

Labcode: QUANTER

Case: NA

DAS No. NA

Matrix: SOIL

QC Report No. NA

Sample wt/vol: NA

(g/ml) NA

Water Sample Prep.:

Concentrated Extract Volume: NA (uL)

Injection Volume: NA (uL) %Solids

GC Column: NA ID: NA (mm)

Contract: NA

SDG: AD01

Lab Sample ID: G9G230249-01

Lab File ID: NA

Date sample received: 07/24/1999

Date Extracted: 08/02/1999

Date analyzed: 08/07/1999

Dilution Factor: 1

Comments:

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Concentration Units: ng/Kg (ppt)

PES Compounds Reported

CAS No.	Compound Name	Concentration	Evaluation	Q
1748-01-6	2,3,7,8-TCDD	1.3	Within Limits	
41903-57-5	TOTAL-TCDD	1.3	Within Limits	

**DIOXIN/FURAN
EVALUATION REPORT FOR PES
PC01512**

EPA/CLP No.

NA

Report date: 09/15/1999
 Method: 8290
 Lab name: QUANTERRA
 Labcode: QUANTER Case: NA DAS No. NA
 Matrix: SOIL QC Report No.:NA
 Sample wt/vol: NA (g/ml) NA
 Water Sample Prep.:
 Concentrated Extract Volume: NA (uL)
 Injection Volume: NA (uL) %Solids
 GC Column: NA ID: NA (mm)

Contract: NA
 SDG: AD01
 Lab Sample ID: G9G230249-01
 Lab File ID: NA
 Date sample received: 07/23/1999
 Date Extracted: 08/02/1999
 Date analyzed: 08/23/1999
 Dilution Factor: 1

Comments:

Concentration Units: ng/Kg (ppt)

PES Compounds Reported

CAS No.	Compound Name	Concentration	Evaluation	Q
81207-31-9	2,3,7,8-TCDF	2.9	Within Warning Limits	
65722-27-5	TOTAL-TCDF	4.9	Within Warning Limits	
1746-01-6	2,3,7,8-TCDD	11	Within Warning Limits	
41903-57-5	TOTAL-TCDD	14	Within Warning Limits	
57117-31-4	2,3,4,7,8-PeCDF	7.8	Within Warning Limits	
30402-15-4	TOTAL-PeCDF	7.8	Within Warning Limits	
40321-76-4	1,2,3,7,8-PeCDD	14	Within Warning Limits	
36088-22-9	TOTAL-PeCDD	14	Within Warning Limits	
72918-21-9	1,2,3,7,8,9-HxCDF	24	Within Warning Limits	
60851-34-5	2,3,4,6,7,8-HxCDF	33	Warning High	
55684-04-1	TOTAL-HxCDF	46	Within Warning Limits	
39227-28-6	1,2,3,4,7,8-HxCDD	9	Within Warning Limits	
57653-85-7	1,2,3,6,7,8-HxCDD	28	Within Warning Limits	
18408-74-3	1,2,3,7,8,9-HxCDD	30	Within Warning Limits	
34465-46-8	TOTAL-HxCDD	65	Within Warning Limits	
67562-39-4	1,2,3,4,6,7,8-HpCDF	15	Within Warning Limits	
38998-75-3	TOTAL-HpCDF	15	Within Warning Limits	
35822-46-9	1,2,3,4,6,7,8-HpCDD	100	Within Warning Limits	
37871-00-4	TOTAL-HpCDD	100	Within Warning Limits	
39001-02-0	OCDF	8.3	Within Warning Limits	J
3288-87-9	OCDD	120	Within Warning Limits	

PES Compounds Missed

CAS No	Compound Name	Concentration	Evaluation	Q
87117-44-9	1,2,3,6,7,8-HxCDF		PES Compound Missed	ND

INORGANIC EVALUATION REPORT FOR PES

ICC00744

EPA/CLP No.

NA

Handwritten initials

Report date: 09/15/1999

Method: 6010B

Lab name: QUANTERRA

Labcode: QUANTER

Matrix: SOIL

Level: (low/med):

%Solids: NA

Color Before: NA

Color After: NA

Case: NA

QC Report No.: NA

DAS No.: NA

Clarity Before: NA

Clarity After: NA

Contract: NA

SDG: AD01

Lab Sample ID: G9G230249-01

Date sample received: 07/23/1999

Texture: NA

Artifacts: NA

Comments:

NOTE:

All Analytes without a concentration or Qualifier were not analyzed for.

Concentration Units: mg/Kg

PES Analytes Reported

CAS No.	Analyte Name	Concentration	Evaluation	C	Q	M
7440-38-2	Arsenic	12.4	Within Warning Limits		B	
7439-92-1	Lead	435	Within Warning Limits			

PES Analytes Missed

CAS No	Analyte Name	Concentration	Evaluation	C	Q	M
7429-90-5	Aluminum		PES Analyte Missed			
7440-70-2	Calcium		PES Analyte Missed			
7440-47-3	Chromium		PES Analyte Missed			
7440-50-8	Copper		PES Analyte Missed			
7439-89-6	Iron		PES Analyte Missed			
7439-85-4	Magnesium		PES Analyte Missed			
7439-98-5	Manganese		PES Analyte Missed			
7440-82-2	Vanadium		PES Analyte Missed			
7440-66-6	Zinc		PES Analyte Missed			
	Cyanide		PES Analyte Missed			

PES Analytes Not Evaluated

CAS No	Analyte Name	Concentration	Evaluation	C	Q	M
7440-38-0	Antimony		Not Evaluated			
7440-39-3	Barium	10.6	Not Evaluated		B	
7440-41-7	Beryllium		Not Evaluated			
7440-43-9	Cadmium	20.3	Not Evaluated			
7440-48-4	Cobalt		Not Evaluated			
7439-97-6	Mercury		Not Evaluated			
7440-02-0	Nickel		Not Evaluated			
7440-09-7	Potassium		Not Evaluated			
7782-49-2	Selenium		Not Evaluated	ND		
7440-22-4	Silver	0.28	Not Evaluated		B	
7440-23-5	Sodium		Not Evaluated			
7440-28-0	Thallium		Not Evaluated			

EVALUATION REPORT FOR PES
TT05585

EPA/CLP No.

NA

Report date: 09/15/1999

Method: SW846 8082

Lab name: QUANTERRA-WEST SACRAMENTO

Labcode: Case: DAS No.

Matrix: SOIL QC Report No.:

Sample wt/vol: (g/mL)

%Moisture Decanted:(Y/N)

Extraction:

Concentrated Extract Volume: (uL)

Injection Volume: (uL)

GPC Cleanup: (Y/N) pH:

Contract:

SDG: AD01

Lab Sample ID:

Lab File ID:

Date sample received: 07/23/1999

Date Extracted: 08/18/1999

Date analyzed: 08/23/1999

Dilution Factor: 50

Sulfur Cleanup

Comments:

Lot-Sample #. G9G230249-018 Work Order # D0FP1101
Date Sampled 07/19/99 Prep Batch #. 9230276

Concentration Units: ug/Kg

PES Compounds Reported

CAS No.	Compound Name	Concentration	Evaluation	Q
11097-69-1	Aroclor-1254	7300	Within Warning Limits	

PES Compounds Not Evaluated

CAS No	Compound Name	Concentration	Evaluation	Q
56-89-9	gamma-BHC (Lindane)		Not Evaluated	

AD01	PE	ICC00744	6010B	0	Arsenic	12.4	B	mg/kg	30.0	12.4	-----EPA scored-----			
AD01	PE	ICC00744	6010B	0	Barium	10.6	B	mg/kg	20.0	10.6	-----EPA scored-----			
AD01	PE	ICC00744	6010B	0	Cadmium	1.1		mg/kg	0.50	1.1	-----EPA scored-----			
AD01	PE	ICC00744	6010B	0	Chromium	20.3		mg/kg	1.0	20.3	-----EPA scored-----			
AD01	PE	ICC00744	6010B	0	Lead	435		mg/kg	10.0	435	-----EPA scored-----			
AD01	PE	ICC00744	6010B	0	Selenium	ND		mg/kg	25.0		-----EPA scored-----			
AD01	PE	ICC00744	6010B	0	Silver	0.28	B	mg/kg	1.0	0.28	-----EPA scored-----			
AD01	PE	LOT354-Y	8081A	0	4,4'-DDD	210		ug/kg	34	210	93.5	264	216	OK
AD01	PE	LOT354-Y	8081A	0	4,4'-DDE	160		ug/kg	34	160	92.7	235	190	OK
AD01	PE	LOT354-Y	8081A	0	4,4'-DDT	330		ug/kg	34	330	114	465	382	OK
AD01	PE	LOT354-Y	8081A	0	Aldrin	280		ug/kg	17	280	146	459	360	OK
AD01	PE	LOT354-Y	8081A	0	alpha-BHC	220	Q	ug/kg	17	220	81.9	304	265	OK
AD01	PE	LOT354-Y	8081A	0	alpha-Chlordane	300		ug/kg	17	300	146	434	356	OK
AD01	PE	LOT354-Y	8081A	0	beta-BHC	110		ug/kg	17	110	45.2	192	154	OK
AD01	PE	LOT354-Y	8081A	0	delta-BHC	ND		ug/kg	17					OK
AD01	PE	LOT354-Y	8081A	0	Dieldrin	290		ug/kg	34	290	120	360	238	OK
AD01	PE	LOT354-Y	8081A	0	Endosulfan I	ND		ug/kg	17					OK
AD01	PE	LOT354-Y	8081A	0	Endosulfan II	ND		ug/kg	34					OK
AD01	PE	LOT354-Y	8081A	0	Endosulfan sulfate	ND		ug/kg	34					OK
AD01	PE	LOT354-Y	8081A	0	Endrin	240		ug/kg	34	240	115	293	238	OK
AD01	PE	LOT354-Y	8081A	0	Endrin aldehyde	ND		ug/kg	34					OK
AD01	PE	LOT354-Y	8081A	0	Endrin ketone	11	J	ug/kg	34	11				HIGH
AD01	PE	LOT354-Y	8081A	0	gamma-BHC (Lindane)	300		ug/kg	17	300	118	495	382	OK
AD01	PE	LOT354-Y	8081A	0	gamma-Chlordane	ND		ug/kg	17					OK
AD01	PE	LOT354-Y	8081A	0	Heptachlor	120		ug/kg	17	120	65	189	150	OK
AD01	PE	LOT354-Y	8081A	0	Heptachlor epoxide	270		ug/kg	17	270	135	422	343	OK
AD01	PE	LOT354-Y	8081A	0	Methoxychlor	160	J	ug/kg	170	160	59.4	251	193	OK
AD01	PE	LOT354-Y	8081A	0	Toxaphene	ND		ug/kg	670					OK
AD01	PE	LOT354-Y	8270C	0	2-Methylnaphthalene	ND		ug/kg	660					OK
AD01	PE	LOT354-Y	8270C	0	Acenaphthene	ND		ug/kg	660					OK
AD01	PE	LOT354-Y	8270C	0	Acenaphthylene	ND		ug/kg	660					OK
AD01	PE	LOT354-Y	8270C	0	Anthracene	2600		ug/kg	660	2600	802	4660	4440	OK
AD01	PE	LOT354-Y	8270C	0	Benzo(a)pyrene	ND		ug/kg	660					OK
AD01	PE	LOT354-Y	8270C	0	Benzo(b)fluoranthene	ND		ug/kg	660					OK
AD01	PE	LOT354-Y	8270C	0	Benzo(ghi)perylene	ND		ug/kg	660					OK
AD01	PE	LOT354-Y	8270C	0	Benzo(k)fluoranthene	3800		ug/kg	660	3800	2170	5800	5170	OK
AD01	PE	LOT354-Y	8270C	0	Chrysene	1300		ug/kg	660	1300	674	1840	1660	OK
AD01	PE	LOT354-Y	8270C	0	Dibenz(a,h)anthracene	ND		ug/kg	660					OK
AD01	PE	LOT354-Y	8270C	0	Fluoranthene	8300		ug/kg	660	8300	3750	12800	11500	OK
AD01	PE	LOT354-Y	8270C	0	Fluorene	ND		ug/kg	660					OK
AD01	PE	LOT354-Y	8270C	0	Indeno(1,2,3-cd)pyrene	ND		ug/kg	660					OK
AD01	PE	LOT354-Y	8270C	0	Naphthalene	5000	Q	ug/kg	660	5000	1440	10300	9770	OK

AD01	PE	LOT354-Y	8270C	0	Phenanthrene	4800		ug/kg	660	4800	2390	6570	6150	OK	
AD01	PE	LOT354-Y	8270C	0	Pyrene	4500		ug/kg	660	4500	2130	7320	6580	OK	
AD01	PE	TT05585	8082	1	Aroclor 1016	ND	Q	ug/kg	1600		-----EPA scored-----				
AD01	PE	TT05585	8082	2	Aroclor 1221	ND		ug/kg	1600		-----EPA scored-----				
AD01	PE	TT05585	8082	3	Aroclor 1232	ND		ug/kg	1600		-----EPA scored-----				
AD01	PE	TT05585	8082	4	Aroclor 1242	ND		ug/kg	1600		-----EPA scored-----				
AD01	PE	TT05585	8082	5	Aroclor 1248	ND		ug/kg	2500		-----EPA scored-----				
AD01	PE	TT05585	8082	6	Aroclor 1254	7300		ug/kg	1600	7300	-----EPA scored-----				
AD01	PE	TT05585	8082	7	Aroclor 1260	ND		ug/kg	1600		-----EPA scored-----				

**PESTICIDE
EVALUATION REPORT FOR PES
TT05595**

EPA/CLP No.

NA

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Report date: 11/04/1999
 Method: SW-846 8082
 Lab name: Quanterra
 Labcode: Case: DAS No.
 Matrix: SOIL QC Report No.:
 Sample wt/vol: (g/mL)
 %Moisture Decanted (Y/N)
 Extraction:
 Concentrated Extract Volume: (uL)
 Injection Volume: (uL)
 GPC Cleanup: (Y/N) pH:

Contract:
 SDG: AP01
 Lab Sample ID:
 Lab File ID:
 Date sample received 10/01/1999
 Date Extracted: 10/05/1999
 Date analyzed: 10/12/1999
 Dilution Factor: 100
 Sulfur Cleanup

Comments:

Lot-Sample #: G9J010251-019
 Work Order #: D38ED101
 Date Sampled: 09/29/99
 Prep Batch #: 9278204

Concentration Units: ug/Kg

PES Compounds Reported

CAS No.	Compound Name	Concentration	Evaluation	Q
37-69-1	Aroclor-1254	8700	Within Warning Limits	

PES Compounds Not Evaluated

CAS No	Compound Name	Concentration	Evaluation	Q
56-89-9	gamma-BHC (Lindane)		Not Evaluated	

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DIOXINS/FURANS
Method 8280

PES SAMPLE NUMBER: MXC628
EPA SAMPLE NUMBER: NA

Lab Name: QUANTERRA
Lab Code: QUANT Case No: NA
Lab Sample ID: G9J010251018
Lab File ID: NA

Contract: NA
DAS No: NA SDG No: AP01
Date Received: 10/01/99
Date Analyzed: 10/08/99

TCL HITS

2,3,7,8-TCDD

WITHIN WARNING LIMITS

0.850

TCL MISSES

None

TCL CONTAMINANTS

None

TIC HITS

None

TIC MISSES

None

TIC CONTAMINANTS

None

SPIKED INTERFERENTS (concentrations not evaluated)

None

Handwritten mark

DIOXINS/FURANS
Method 8280

PES SAMPLE NUMBER: PCDD00279
EPA SAMPLE NUMBER:

Lab Name: QUANTERRA
Lab Code: QUANT Case No: NA
Lab Sample ID: G9J020187-07
Lab File ID: NA

Contract: NA
DAS No: NA SDG No: AP02
Date Received: 10/02/99
Date Analyzed: 10/09/99

TCL HITS

2,3,7,8-TCDD

ACTION LOW

0.053

J

TCL MISSES

- 1,2,3,6,7,8-HxCDF
- 2,3,4,6,7,8-HxCDF
- 1,2,3,4,7,8-HxCDD
- 1,2,3,6,7,8-HxCDD
- TOTAL-HxCDD
- 1,2,3,4,6,7,8-HpCDF
- 1,2,3,4,7,8,9-HpCDF
- 1,2,3,4,6,7,8-HpCDD
- TOTAL-HpCDD
- OCDF
- OCDD
- TOTAL-TCDD
- 1,2,3,7,8-PeCDF
- 2,3,4,7,8-PeCDF
- 1,2,3,7,8-PeCDD
- TOTAL-PeCDD

*Not Analyzed for
11/4/99*

TCL CONTAMINANTS

None

TIC HITS

None

TIC MISSES

None

TIC CONTAMINANTS

None

SPIKED INTERFERENTS (concentrations not evaluated)

None

Handwritten initials

DIOXINS/FURANS
Method 8280

PES SAMPLE NUMBER: ZHF828
EPA SAMPLE NUMBER: NA

Lab Name: QUANTERRA
Lab Code: QUANT Case No: NA
Lab Sample ID: G9J020187019
Lab File ID: NA

Contract: NA
DAS No: NA SDG No: AP02
Date Received: 10/02/99
Date Analyzed: 10/13/99

TCL HITS

2,3,7,8-TCDD

~~ACTION LOW~~ @ 11/4/99

0.000 ND

TCL MISSES

None

TCL CONTAMINANTS

None

TIC HITS

None

TIC MISSES

None

TIC CONTAMINANTS

None

SPIKED INTERFERENTS (concentrations not evaluated)

None

**PESTICIDE
EVALUATION REPORT FOR PES
TT05567**

EPA/CLP No.

NA (RUN 1)

Report date: 11/04/1999

Method: SW846 8082

Lab name: Quanterra

Labcode:

Case:

DAS No.

Matrix: SOIL

QC Report No.:

Sample wt/vol:

(g/mL)

%Moisture

Decanted:(Y/N)

Extraction:

Concentrated Extract Volume:

(uL)

Injection Volume:

(uL)

GPC Cleanup: (Y/N)

pH:

Contract:

SDG: AP02

Lab Sample ID:

Lab File ID:

Date sample received: 10/02/1999

Date Extracted: 10/05/1999

Date analyzed: 10/12/1999

Dilution Factor: 200

Sulfur Cleanup

Comments:

Lot-Sample #: G9J020187-018

Work Order #: D37L0101

Date Sampled: 10/01/99

Prep Batch # 9278213

Concentration Units: ug/Kg

PES Compounds Reported

CAS No.	Compound Name	Concentration	Evaluation	Q
7-89-1	Aroclor-1254	37000	Within Warning Limits	

PES Compounds Not Evaluated

CAS No	Compound Name	Concentration	Evaluation	Q
58-89-9	gamma-BHC (Lindane)		Not Evaluated	

**PESTICIDE
EVALUATION REPORT FOR PES
TT05587**

GPA/CLP No

NA (RUN 2)

Report date: 11/04/1999

Method: SW846 8082

Lab name: Quanterra

Labcode:

Case:

DAS No.

Matrix: SOIL

QC Report No.:

Sample w/vol:

(g/mL)

%Moisture

Decanted:(Y/N)

Extraction:

Concentrated Extract Volume:

(uL)

Injection Volume:

(uL)

GPC Cleanup: (Y/N)

pH

Contract:

SDG: AP02

Lab Sample ID:

Lab File ID:

Date sample received: 10/02/1999

Date Extracted: 10/13/1999

Date analyzed: 10/20/1999

Dilution Factor: 100

Sulfur Cleanup

Comments:

Lot-Sample #: G0J020187-018
Work Order #: 037L0201
Date Sampled: 10/01/99
Prop Batch #: 9288394

Concentration Units: ug/Kg

PES Compounds Reported

CAS No.	Compound Name	Concentration	Evaluation	Q
11097-89-1	Aroclor-1254	49000	Within Warning Limits	

PES Compounds Not Evaluated

CAS No	Compound Name	Concentration	Evaluation	Q
56-89-8	gamma-BHC (Lindane)		Not Evaluated	