

AgriQuality New Zealand Limited
Huarangi Aotearoa

Gracefield Road
P.O. Box 31 242
Lower Hutt, New Zealand

Phone: +64 4 570 8800
Facsimile: +64 4 569 4500

02 August 2001

Certificate of Analysis



Client: Taranaki Regional Council
Private Bag 713
Stratford

Attention: Fiona Putt

Date Received: 11 May 2001

Client Reference: 011011, 011013, 011014

AgriQuality Lab. Reference: 01-1932/1,3,4

Sample Type: Shellfish

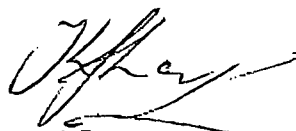
Analysis: **Acid Herbicide**

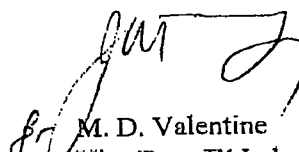
Method:

The sample was isolated by solid phase extraction and the extract derivatised with diazomethane. Measurement was performed using gas chromatography - mass spectrometry. Full details of the methodology are available on request.

Results are reported in milligrams per kilogram (ppm).

Analytical results are for samples as received.


K. J. Lange
UltraTrace™ Laboratory
AgriQuality Environmental


M. D. Valentine
UltraTrace™ Laboratory
AgriQuality Environmental

02 August 2001

SAMPLE DETAILS	
Client Reference	011011, Kawaroa Reef, 08/05/01
AgriQuality Lab. Reference	01-1932/1

RESULTS	
Acid Herbicide	Level (mg/kg)
mecoprop	ND
MCPA	ND
dichlorprop	ND
2,4-D	ND
triclopyr	ND
MCPB	ND
2,4,5-T	ND
2,4-DB	ND
bentazone	ND
fenoprop	ND
picloram	ND

ND The letters ND mean "not detected" above the detection limit of 0.1 mg/kg

02 August 2001

SAMPLE DETAILS	
Client Reference	011013, Waireka 'cavern', 08/05/01
AgriQuality Lab. Reference	01-1932/3

RESULTS	
Acid Herbicide	Level (mg/kg)
mecoprop	ND
MCPA	ND
dichlorprop	ND
2,4-D	ND
triclopyr	ND
MCPB	ND
2,4,5-T	ND
2,4-DB	ND
bentazone	ND
fenoprop	ND
picloram	ND

ND The letters ND mean "not detected" above the detection limit of 0.1 mg/kg

02 August 2001

SAMPLE DETAILS	
Client Reference	011014, Waireka 'control', 08/05/01
AgriQuality Lab Reference	01-1932/4

RESULTS	
Acid Herbicide	Level (mg/kg)
mecoprop	ND
MCPA	ND
dichlorprop	ND
2,4-D	ND
triclopyr	ND
MCPB	ND
2,4,5-T	ND
2,4-DB	ND
bentazone	ND
fenoprop	ND
picloram	ND

ND The letters ND mean "not detected" above the detection limit of 0.1 mg/kg

AgriQuality New Zealand Limited
Huarangi Aotearoa

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23 July 2001

604

Certificate of Analysis



Client: Taranaki Regional Council
Private Bag 713
Stratford

Attention: Gary Bedford

Date Received: 13 July 2001

Client Reference: 4062-4069

HAND DELIVERED

27/7/01

AgriQuality Lab. Reference: 01-2885/1-8

ORIGINAL GIVEN TO

Gary

Sample Type: Aqueous

COPY IN MAIL DATED

30/7/01

Analysis: Acid Herbicide

Key (Signed)

Method:

The sample was isolated by solid phase extraction and the extract derivatised with diazomethane. Measurement was performed using gas chromatography - mass spectrometry. Full details of the methodology and precision are available on request.

Results are reported in micrograms per litre (ppb).

Analytical results are for samples as received.



All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

K. J. Lange
Trace Organics Laboratory
AgriQuality Environmental

M. D. Valentine
Trace Organics Laboratory
AgriQuality Environmental

23 July 2001

SAMPLE DETAILS	
Client Name	4062, DAS Bore 21
Sample ID	01-2885/1
Date Sampled	12/07/01
Date Reported	19/07/01
Days of Incubation	7 days

RESULTS	
Anal. Name	Level (µg/L)
mecoprop	ND
MCPA	ND
dichlorprop	ND
2,4-D	ND
triclopyr	ND
MCPB	ND
2,4,5-T	ND
2,4-DB	ND
bentazone	ND
fenoprop	ND
picloram	ND

ND The letters ND mean "not detected" above the detection limit of 0.1 µg/L

23 July 2001

SAMPLE DETAILS	
Location	4063, DAS Bore 43
Agreement No	01-2885/2
Date Collected	12/07/01
Time Collected	19/07/01
Time Between Sampling	7 days

RESULTS	
Acid Herbicide	Conc (µg/L)
mecoprop	ND
MCPA	ND
dichlorprop	ND
2,4-D	ND
triclopyr	ND
MCPB	ND
2,4,5-T	ND
2,4-DB	ND
bentazone	ND
fenoprop	ND
picloram	0.1

ND The letters ND mean "not detected" above the detection limit of 0.1 µg/L

23 July 2001

SAMPLE DETAILS	
Client Reference	4064, DAS Bore 49A
AS/NZS 1045:1996 Reference	01-2885/3
Time Sampled	12/07/01
Time Analyzed	19/07/01
Time Recommended Holding Time	7 days

RESULTS	
Herbicide	Level (µg/L)
mecoprop	ND
MCPA	ND
dichlorprop	ND
2,4-D	ND
triclopyr	ND
MCPB	ND
2,4,5-T	ND
2,4-DB	0.1
bentazone	ND
fenoprop	0.2
picloram	0.6

ND The letters ND means "not detected" above the detection limit of 0.1 µg/L

23 July 2001

SAMPLE DETAILS	
Client Reference	4065, DAS Bore 1
Applicant/Plant Residence	01-2885/4
Date Sampled	12/07/01
Date of Analysis	19/07/01
Pre-analysis Remedial Treatment	7 days

RESULTS	
Acid Herbicides	Concentration
mecoprop	ND
MCPA	ND
dichlorprop	ND
2,4-D	ND
triclopyr	ND
MCPB	ND
2,4,5-T	ND
2,4-DB	ND
bentazone	ND
fenoprop	ND
picloram	ND

ND The letters ND mean "not detected" above the detection limit of 0.1 µg/L

23 July 2001

SAMPLE DETAILS	
Client Reference	4066, DAS Bore 3
Agri Quality File Reference	01-2885/5
Date Sampled	12/07/01
Date Reported	19/07/01
Time of Day (Sunrise to Sunset)	7 days

RESULTS	
Herbicide	Level (µg/L)
meoprop	ND
MCPA	ND
dichlorprop	ND
2,4-D	ND
triclopyr	ND
MCPB	ND
2,4,5-T	ND
2,4-DB	ND
bentazone	ND
fenoprop	ND
picloram	ND

ND The letters ND mean "not detected" above the detection limit of 0.1 µg/L

23 July 2001

SAMPLE DETAILS	
Client Reference	4067, DAS Bore 4
Sample ID / Job Reference	01-2885/6
Time Collected	12/07/01
Date of Analysis	19/07/01
Time of Analysis (from collection)	7 days

RESULTS	
Herbicide	Level (µg/L)
mecoprop	ND
MCPA	ND
dichlorprop	ND
2,4-D	ND
triclopyr	ND
MCPB	ND
2,4,5-T	ND
2,4-DB	ND
bentazone	ND
fenoprop	ND
picloram	ND

ND The letters ND mean "not detected" above the detection limit of 0.1 µg/L

23 July 2001

SAMPLE DETAILS	
Client Reference	4068, DAS Bore 6
AgriQuality Reference	01-2885/7
Date of Sampling	12/07/01
Date of Report	19/07/01
Time Between Sampling and Reporting	7 days

RESULTS	
Acid Herbicide	Level (µg/L)
mecoprop	ND
MCPA	ND
dichlorprop	ND
2,4-D	ND
triclopyr	ND
MCPB	ND
2,4,5-T	ND
2,4-DB	ND
bentazone	ND
fenoprop	ND
picloram	16

ND The letters ND mean "not detected" above the detection limit of 0.1 µg/L

23 July 2001

SAMPLE DETAILS	
Client Reference	4069, DAS Bore 46A
Sample ID (e.g. 01-2885/8)	01-2885/8
Date Collected	12/07/01
Date Analyzed	19/07/01
US EPA Recommended Holding Time	7 days

RESULTS	
Acid Herbicide	µg/L (aq)
mecoprop	0.4
MCPA	1.2
dichlorprop	ND
2,4-D	1.3
triclopyr	ND
MCPB	0.1
2,4,5-T	0.6
2,4-DB	0.6
bentazone	ND
fenoprop	0.4
picloram	11

ND The letters ND mean "not detected" above the detection limit of 0.1 µg/L

AgriQuality New Zealand Limited
Huarangi Aotearoa

Gracefield Road
P.O. Box 31 242
Lower Hutt, New Zealand

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08 August 2001

Certificate of Analysis



Client: Taranaki Regional Council
Private Bag 713
Stratford

Attention: Gary Bedford

Date Received: 13 July 2001

Client Reference: 4068

AgriQuality Lab. Reference: 01-2885/7

Sample Type: Aqueous

Analysis: **Acid Herbicide**

NO DELIVERED
10/8/01
Gary
13/8 01
Key

Method:

The sample was isolated by solid phase extraction and the extract derivatised with diazomethane. Measurement was performed using gas chromatography - mass spectrometry. Full details of the methodology and precision are available on request.

Results are reported in micrograms per litre (ppb).

Analytical results are for samples as received.



All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

[Signature]
K. J. Lange
UltraTrace™ Laboratory
AgriQuality Environmental

[Signature]
M. D. Valentine
UltraTrace™ Laboratory
AgriQuality Environmental

08 August 2001

SAMPLE DETAILS	
Client Reference	4068, DAS Bore 6
AgriQuality Lab. Reference	01-2885/7, repeat extraction
Date Sampled	12/07/01
Date Extracted	01/08/01
USEPA Recommended Holding Time	7 days

RESULTS	
Acid Herbicide	Level (µg/L)
mecoprop	ND
MCPA	ND
dichlorprop	ND
2,4-D	ND
triclopyr	ND
MCPB	ND
2,4,5-T	ND
2,4-DB	ND
benlazole	ND
fenoprop	ND
picloram	9.1

ND The letters ND mean "not detected" above the detection limit of 0.1 µg/L

AgriQuality New Zealand Limited
Huarangi Aotearoa

Gracefield Research Centre
Gracefield Road
PO Box 30 547
Lower Hutt
New Zealand

AgriQuality Environmental
Phone: 64 4 670 8822
Fax: 64 4 569 4500

Email: <allwoodj@agriquality.co.nz>

Facsimile



To: Gary Bedford Fax: 06 765 5097

Company: Taranaki Regional Council Date: June 15, 2001

From: Jacinda Allwood Pages (including this page): 3

Re: Sample for Acid Herbicide analysis and 2378-TCDD analysis (01-1545).

This message is intended for the person or organisation named above. It contains confidential and perhaps legally privileged information. If you have received it in error, please notify the sender and destroy this document. If you are not the intended recipient, you are notified that any use, distribution or reproduction is prohibited.

Dear Gary,

Please find following the analytical report for the 2378-TCDD analysis your aqueous sample received by AgriQuality Environmental on the 18th April 2001. The sample was analysed for 2378-TCDD and Acid Herbicides (AHs), which you were faxed the results on the 30th May.

The top copies of the two certificates and the invoice relating to this work will follow shortly by post.

If you have any queries please do not hesitate to contact me.

Kind regards

Jacinda Allwood
Team Leader
UltraTrace™ Laboratory
AgriQuality Environmental

HAND DELIVERED 15/6/01

ORIGINAL GIVEN TO Gary

DATE IN MAIL DATED 18/6/01

Kay (Signed)

AgriQuality New Zealand Limited
Huarangi Aotearoa

Gracefield Road
P.O. Box 31 242
Lower Hutt, New Zealand

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Facsimile: +64 4 569 4500

15 June 2001

Certificate of Analysis

Client: Taranaki Regional Council
Private Bag 713
Stratford
New Zealand



Attention: Gary Bedford
Date Received: 18 April 2001
Laboratory Reference: 01-1545
Sample Type: Aqueous
Analysis: 2378 Tetrachlorodibenzo-*p*-dioxin (TCDD)
Method: Based on USEPA Method 1613 (Isotope Dilution)

The sample was spiked with isotopically labelled surrogate standards and extracted with organic solvent. The extract was purified by chemical treatment and solid phase chromatographic techniques. Measurement was performed using high resolution gas chromatography and high resolution electron impact mass spectrometry.

Results are reported in picograms per litre (pg/L), equivalent to ppq, on an as received basis to two significant figures. Results have been corrected for recoveries.

S V Leathem
UltraTrace™ Laboratory
AgriQuality Environmental

M L Mackey
UltraTrace™ Laboratory
AgriQuality Environmental



All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

THIS REPORT MUST ONLY BE REPRODUCED IN ITS ENTIRETY

15 June 2001

Results

Laboratory Reference	Sample Identification	Sample Type	TCDD pg/L	¹³ C ₁₂ RE %
01-1545/1	010904, Wairaka Point Rock Pool	Aqueous	< 8	75

† = Results are reported on an as received basis.

Abbreviations:

CDD = chlorodibenzo-*p*-dioxin


T = tetra

¹³C₁₂ RE = recovery of ¹³C₁₂ surrogate standard

pg/L = picograms per litre (equivalent to ppq)

ppq = parts per quadrillion

< = less than limit of detection (LOD)


01-1545 todd

THIS REPORT MUST ONLY BE REPRODUCED IN ITS ENTIRETY

Page 2 of 2

AgriQuality New Zealand Limited
Huarangi Aotearoa

Gracefield Research Centre
Gracefield Road
PO Box 30 547
Lower Hutt
New Zealand

AgriQuality Environmental
Phone: 64 4 570 8810
Fax: 64 4 569 4500

Email: <mackeyin@agriquality.co.nz>

Facsimile



To: Gary Bedford

Fax: 06 765 5097

Company: Taranaki Regional Council

Date: August 15, 2001

From: Moana Mackey

Pages (including this page): 3

This message is intended for the person or organisation named above. It contains confidential and perhaps legally privileged information. If you have received it in error, please notify the sender and destroy this document. If you are not the intended recipient, you are notified that any use, distribution or reproduction is prohibited.

Dear Gary,

Please find following the results for your soil sample, received by AgriQuality on the 14th of June 2001, and analysed for 2378-TCDD.

Results are reported as picograms per gram (pg/g), equivalent to ppt, on an as received basis.

You should receive the top copy of the analytical certificate shortly by post.

If you have any queries please do not hesitate to contact me.

Kind regards

Moana Mackey
UltraTrace™ Laboratory
AgriQuality Environmental

16 8 01
Gary
16 8 01

Kay

Certificate of Analysis

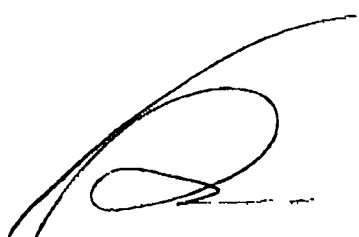
Client: Taranaki Regional Council
Private Bag 713
Stratford
New Zealand

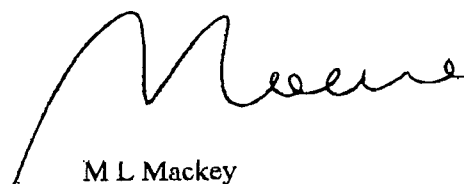


Attention: Gary Bedford
Date Received: 14 June 2001
Laboratory Reference: 01-2454
Sample Type: Soil
Analysis: 2378 Tetrachlorodibenzo-p-dioxin (TCDD)
Method: Based on USEPA Method 1613A (Isotope Dilution)

The sample was spiked with isotopically labelled surrogate standards and extracted with organic solvent. The extract was purified by chemical treatment and solid phase chromatographic techniques. Measurement was performed using high resolution gas chromatography and high resolution electron impact mass spectrometry.

Results are reported in picograms per gram (pg/g), equivalent to ppt to two significant figures, on a dry weight basis. Results have been corrected for recoveries.


S V Leathem
UltraTrace™ Laboratory
AgriQuality Environmental


M L Mackey
UltraTrace™ Laboratory
AgriQuality Environmental



All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

Results

01-2454/8	4043 - Belt Road Soil 2	Soil	< 9	98
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† = Results are reported on a dry weight basis.

Abbreviations:

CDD = chlorodibenzo-*p*-dioxin
T = tetra
¹³C₁₂ RE = recovery of ¹³C₁₂ surrogate standard

pg/g = picograms per gram (equivalent to ppt)
ppt = parts per trillion
< = less than limit of detection (LOD)

AgriQuality New Zealand Limited
Huarangi Aotearoa

Gracefield Research Centre
Gracefield Road
PO Box 30 547
Lower Hutt
New Zealand

AgriQuality Environmental
Phone: 64 4 570 8810
Fax: 64 4 569 4500

Email: <mackeym@agriquality.co.nz>

Facsimile



To: John Williams

Fax: 06 765 5097

Company: Taranaki Regional Council

Date: August 15, 2001

From: Moana Mackey

Pages (Including this page): 3

This message is intended for the person or organisation named above. It contains confidential and perhaps legally privileged information. If you have received it in error, please notify the sender and destroy this document. If you are not the intended recipient, you are notified that any use, distribution or reproduction is prohibited.

Dear Gary,

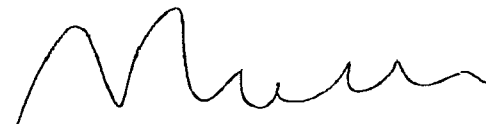
Please find following the results for your eight aqueous samples, received by AgriQuality on the 13th of July 2001, and analysed for 2378-TCDD.

Results are reported as picograms per litre (pg/L), equivalent to ppq, on an as received basis.

You should receive the top copy of the analytical certificate shortly by post.

If you have any queries please do not hesitate to contact me.

Kind regards


Moana Mackey
UltraTrace™ Laboratory
AgriQuality Environmental

15/8/01
John W
16/8/01



15 August 2001

Certificate of Analysis


Client: Taranaki Regional Council
Private Bag 713
Stratford
New Zealand

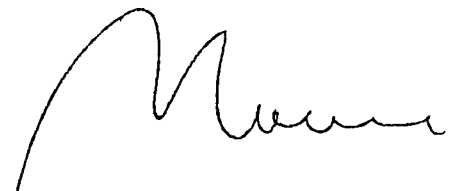


Attention: John Williams
Date Received: 13 July 2001
Laboratory Reference: 01-2885
Sample Type: Aqueous
Analysis: 2378 Tetrachlorodibenzo-*p*-dioxin (TCDD)
Method: Based on USEPA Method 1613 (Isotope Dilution)

The samples were spiked with isotopically labelled surrogate standards and extracted with organic solvent. The extracts were purified by chemical treatment and solid phase chromatographic techniques. Measurement was performed using high resolution gas chromatography and high resolution electron impact mass spectrometry.

Results are reported in picograms per litre (pg/L), equivalent to ppq to two significant figures, on as received basis. Results have been corrected for recoveries.


S V Leatham
UltraTrace™ Laboratory
AgriQuality Environmental


M L Mackey
UltraTrace™ Laboratory
AgriQuality Environmental



All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

Results

Sample No.	Sample Description	Matrix	Concentration	Recovery (%)
01-2885/1	4062-DAS Bore 21	Aqueous	< 3	87
01-2885/2	4063-DAS Bore 43	Aqueous	< 3	76
01-2885/3	4064-DAS Bore 49A	Aqueous	< 20	58
01-2885/4	4065-DAS Bore 1	Aqueous	< 9	38
01-2885/5	4066-DAS Bore 3	Aqueous	< 4	89
01-2885/6	4067-DAS Bore 4	Aqueous	< 2	98
01-2885/7	4068-DAS Bore 6	Aqueous	< 2	95
01-2885/8	4069-DAS Bore 46A	Aqueous	< 10	42

† = Results are reported on an as received basis.

Abbreviations:

CDD = chlorodibenzo-*p*-dioxin


T = tetra

¹³C₁₂ RE = recovery of ¹³C₁₂ surrogate standard

pg/L = picograms per litre (equivalent to ppq)

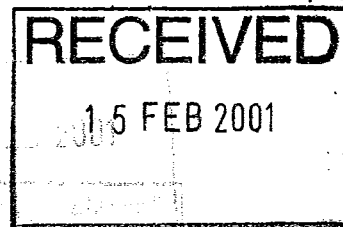
ppq = parts per quadrillion

< = less than limit of detection (LOD)


01-2885 todd

THIS REPORT MUST ONLY BE REPRODUCED IN ITS ENTIRETY

Page 2 of 2



14 February 2001

Client Ref: 16288B
AgriQuality Ref: 01-0124

New Plymouth District Council
Works and Services Department
Private Bag 2025
New Plymouth



Attention: Graham Morris

Dear Graham

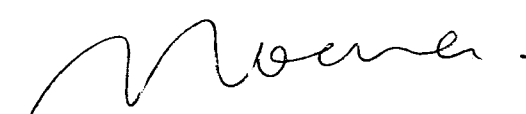
Please find enclosed the top copy of the analytical certificate for your aqueous sample, received by AgriQuality Environmental on the 12th of January 2001, and analysed for polychlorinated dibenzo-*p*-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs).

Results are reported as picograms per litre (pg/L), equivalent to ppq, on an as received basis. The total toxic equivalence (I-TEQ) was calculated using international toxic equivalency factors (I-TEFs).

Also enclosed for your attention is the invoice for this work.

If you have any queries or require any additional information, please do not hesitate to contact us.

Kind regards


Moana Mackey
UltraTrace™ Laboratory
AgriQuality Environmental

Certificate of Analysis



Client: New Plymouth District Council
Works and Services Department
Private Bag 2025
NEW PLYMOUTH 4620

Attention: Graham Morris

Date Received: 12 January 2001

Laboratory Reference: 01-0124

Sample Type: Aqueous

Analysis: Polychlorinated dibenzo-*p*-dioxins (PCDDs)
Polychlorinated dibenzofurans (PCDFs)

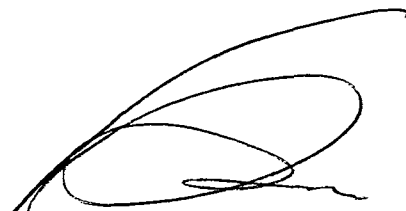
Method: Based on USEPA Method 1613 (Isotope Dilution)

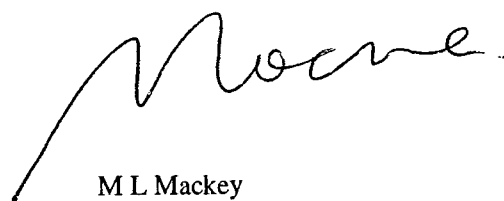
The samples were spiked with isotopically labelled surrogate standards and extracted with organic solvent. The extracts were purified by chemical treatment and solid phase chromatographic techniques. Measurement was performed using high resolution gas chromatography with high resolution electron impact mass spectrometry.

Results are reported in picograms per litre (pg/L), equivalent to ppq, on an as received basis to two significant figures. Results have been corrected for recoveries. The sum of PCDDs and PCDFs is calculated and reported both excluding limit of detection (LOD) values and including half the LOD values to three significant figures.

The total toxic equivalency (I-TEQ) was calculated for each sample using international toxic equivalency factors (I-TEFs). For non-detected congeners, half the value of the level is used in the I-TEQ calculation. The total I-TEQ level is reported both excluding LOD values and including half the LOD values to three significant figures.

IANZ endorsement applies only to the application of an approved analytical method for the determination of PCDDs and PCDFs in these samples.


S V Leathem
UltraTrace™ Laboratory
AgriQuality Environmental


M L Mackey
UltraTrace™ Laboratory
AgriQuality Environmental



All tests reported
herein have been
performed in accordance
with the laboratory's
scope of accreditation

THIS REPORT MUST ONLY BE REPRODUCED IN ITS ENTIRETY

Sample Details:

Sample Identification	Laboratory Reference	Sample Type
1, Colson Road Landfill Leachate	01-0124/1	Aqueous
2, Cook Street Landfill Leachate	01-0124/2	Aqueous

Abbreviations:

CDD	= chlorodibenzo- <i>p</i> -dioxin	I-TEF	= International toxic equivalency factor
CDF	= chlorodibenzofuran	I-TEQ	= International toxic equivalence
T	= tetra	¹³ C ₁₂ RE	= recovery of ¹³ C ₁₂ surrogate standard
Pe	= penta	pg/L	= picograms per litre (equivalent to ppq)
Hx	= hexa	ppq	= parts per quadrillion
Hp	= hepta	<	= less than limit of detection (LOD)
O	= octa		

Results

Laboratory Reference: 01-0124/1

Sample Identification: 1, Colson Road Landfill Leachate

PCDD/PCDF Congener	Level [†] pg/L	I-TEF	I-TEQ pg/L	¹³ C ₁₂ RE %
2378 TCDF	< 2	0.1	0.1	75
Non 2378 TCDF	< 6	0	0	
2378 TCDD	< 2	1	1	77
Non 2378 TCDD	< 4	0	0	
12378 PeCDF	< 1	0.05	0.025	75
23478 PeCDF	< 1	0.5	0.25	72
Non 2378 PeCDF	< 2	0	0	
12378 PeCDD	< 3	0.5	0.75	68
Non 2378 PeCDD	< 3	0	0	
123478 HxCDF	< 1	0.1	0.05	69
123678 HxCDF	< 1	0.1	0.05	70
234678 HxCDF	< 1	0.1	0.05	81
123789 HxCDF	< 1	0.1	0.05	78
Non 2378 HxCDF	< 1	0	0	
123478 HxCDD	< 2	0.1	0.1	90
123678 HxCDD	< 2	0.1	0.1	85
123789 HxCDD	< 2	0.1	0.1	
Non 2378 HxCDD	< 2	0	0	
1234678 HpCDF	< 3	0.01	0.015	61
1234789 HpCDF	< 1	0.01	0.005	81
Non 2378 HpCDF	< 4	0	0	
1234678 HpCDD	< 6	0.01	0.03	72
Non 2378 HpCDD	< 10	0	0	
OCDF	< 5	0.001	0.0025	
OCDD	< 7	0.001	0.0035	85
Sum of PCDD and PCDF congeners:	Excluding LOD values	0	pg/L	
	Including half LOD values	36.5	pg/L	
Total I-TEQ:	Excluding LOD values	0	pg/L	
	Including half LOD values	2.68	pg/L	

† = Results are reported on an as received basis.

Results

Laboratory Reference: 01-0124/2

Sample Identification: 2, Cook Street Landfill Leachate

PCDD/PCDF Congener	Level† pg/L	I-TEF	I-TEQ pg/L	¹³ C ₁₂ RE %
2378 TCDF	< 0.9	0.1	0.045	76
Non 2378 TCDF	< 4	0	0	
2378 TCDD	< 2	1	1	87
Non 2378 TCDD	9.3	0	0	
12378 PeCDF	< 0.9	0.05	0.0225	88
23478 PeCDF	< 1	0.5	0.25	82
Non 2378 PeCDF	< 1	0	0	
12378 PeCDD	< 2	0.5	0.5	85
Non 2378 PeCDD	< 2	0	0	
123478 HxCDF	< 1	0.1	0.05	89
123678 HxCDF	< 1	0.1	0.05	87
234678 HxCDF	< 1	0.1	0.05	93
123789 HxCDF	< 1	0.1	0.05	91
Non 2378 HxCDF	< 1	0	0	
123478 HxCDD	< 2	0.1	0.1	106
123678 HxCDD	< 2	0.1	0.1	95
123789 HxCDD	< 2	0.1	0.1	
Non 2378 HxCDD	< 2	0	0	
1234678 HpCDF	< 2	0.01	0.01	68
1234789 HpCDF	< 1	0.01	0.005	74
Non 2378 HpCDF	< 2	0	0	
1234678 HpCDD	< 4	0.01	0.02	73
Non 2378 HpCDD	< 4	0	0	
OCDF	< 4	0.001	0.002	
OCDD	< 20	0.001	0.01	73
Sum of PCDD and PCDF congeners:	Excluding LOD values		9.30	pg/L
	Including half LOD values		41.2	pg/L
Total I-TEQ:	Excluding LOD values		0	pg/L
	Including half LOD values		2.36	pg/L

† = Results are reported on an as received basis.

