Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R1-RR-other

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:00
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-14
Sample Size:	16.9 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_137 S: 13** **DX82_242 S: 7**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD		0.044	0.0153	1	4.40e-02	4.40e-02	
1,2,3,7,8-PECDD		0.055	0.0118	1	5.50e-02	5.50e-02	
1,2,3,4,7,8-HXCDD		0.047	0.0151	0.1	4.70e-03	4.70e-03	
1,2,3,6,7,8-HXCDD	U		0.0151	0.1	0.00e+00	7.55e-04	
1,2,3,7,8,9-HXCDD	U		0.0151	0.1	0.00e+00	7.55e-04	
1,2,3,4,6,7,8-HPCDD		0.251	0.0096	0.01	2.51e-03	2.51e-03	
OCDD		1.02	0.0166	0.0003	3.06e-04	3.06e-04	
2,3,7,8-TCDF	U		0.0872	0.1	0.00e+00	4.36e-03	
1,2,3,7,8-PECDF	U		0.0091	0.03	0.00e+00	1.37e-04	
2,3,4,7,8-PECDF		0.043	0.0091	0.3	1.29e-02	1.29e-02	
1,2,3,4,7,8-HXCDF	U		0.0127	0.1	0.00e+00	6.35e-04	
1,2,3,6,7,8-HXCDF	U		0.0127	0.1	0.00e+00	6.35e-04	
1,2,3,7,8,9-HXCDF	U		0.0127	0.1	0.00e+00	6.35e-04	
2,3,4,6,7,8-HXCDF	U		0.0127	0.1	0.00e+00	6.35e-04	
1,2,3,4,6,7,8-HPCDF	U		0.0102	0.01	0.00e+00	5.10e-05	
1,2,3,4,7,8,9-HPCDF	U		0.0102	0.01	0.00e+00	5.10e-05	
OCDF		0.051	0.0067	0.0003	1.53e-05	1.53e-05	
			TOTAL TEQ		0.119	0.128	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: TEQ.xsl; Created: 21-Jul-2008 13:57:58; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613-TEQ_L11328-14_TEQ_SJ881935.html; Workgroup: WG25699; Design ID: 883]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R1-RR-tissue
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-15
Matrix:	TISSUE	**Sample Size:**	25.6 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 02:17:15	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_242 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_240B S: 4
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	NEED
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	83.1
		% Lipid:	0.14

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.032	0.0096	0.48	1.000
1,2,3,7,8-PECDD [3]	J	0.019	0.0079	0.68	1.000
1,2,3,4,7,8-HXCDD	U		0.0135		
1,2,3,6,7,8-HXCDD	J	0.048	0.0135	1.34	1.000
1,2,3,7,8,9-HXCDD	K J	0.019	0.0135	0.93	1.010
1,2,3,4,6,7,8-HPCDD	K J	0.056	0.0074	1.40	1.000
OCDD	J	0.108	0.0130	1.02	1.000
2,3,7,8-TCDF	J	0.039	0.0082	0.81	1.001
1,2,3,7,8-PECDF	U		0.0072		
2,3,4,7,8-PECDF	K J	0.022	0.0072	1.23	1.000
1,2,3,4,7,8-HXCDF	U		0.0111		
1,2,3,6,7,8-HXCDF	U		0.0111		
1,2,3,7,8,9-HXCDF	U		0.0111		
2,3,4,6,7,8-HXCDF	U		0.0111		
1,2,3,4,6,7,8-HPCDF	K J	0.027	0.0059	1.82	1.000
1,2,3,4,7,8,9-HPCDF	K J	0.009	0.0059	1.47	1.001
OCDF	J	0.046	0.0052	1.02	1.002
TOTAL TETRA-DIOXINS		0.011	0.0096		
TOTAL PENTA-DIOXINS		0.044	0.0079		
TOTAL HEXA-DIOXINS		0.087	0.0135		
TOTAL HEPTA-DIOXINS		0.027	0.0074		
TOTAL TETRA-FURANS		0.194	0.0082		
TOTAL PENTA-FURANS	U		0.0072		
TOTAL HEXA-FURANS	U		0.0111		
TOTAL HEPTA-FURANS	U		0.0059		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-15_Form1A_DX82_242S8_SJ881397.html; Workgroup: WG25699; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R1-RR-tissue
Sample Collection:
23-Jun-2008 14:00

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-15
Matrix:	TISSUE	**Sample Size:**	25.6 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 02:17:15	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_242 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_240B S: 4
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	NEED
Concentration Units:	pg absolute	**% Moisture:**	83.1
		% Lipid:	0.14

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	851	42.5	0.81	1.015
13C-1,2,3,7,8-PECDD [4]		2000	962	48.1	0.63	1.388
13C-1,2,3,4,7,8-HXCDD		2000	928	46.4	1.27	0.987
13C-1,2,3,6,7,8-HXCDD		2000	968	48.4	1.26	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	964	48.2	1.05	1.094
13C-OCDD		4000	1770	44.2	0.90	1.178
13C-2,3,7,8-TCDF		2000	976	48.8	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	831	41.6	1.56	1.290
13C-2,3,4,7,8-PECDF		2000	1010	50.5	1.58	1.358
13C-1,2,3,4,7,8-HXCDF		2000	753	37.6	0.52	0.955
13C-1,2,3,6,7,8-HXCDF		2000	795	39.8	0.53	0.959
13C-1,2,3,7,8,9-HXCDF		2000	869	43.5	0.52	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1000	50.1	0.52	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	702	35.1	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	806	40.3	0.44	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	111	55.3		1.017

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 21-Jul-2008 13:55:44; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613DB5_L11328-15_Form2_DX82_242S8_SJ881397.html; Workgroup: WG25699; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R1-RR-tissue
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-15
Matrix:	TISSUE	**Sample Size:**	25.6 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 03:15:20	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_137 S: 14**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_135 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_137 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	83.1 0.14

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	U		0.0610		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-15_Form1A_DB83_137S14_SJ881936.html; Workgroup: WG25699; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R1-RR-tissue

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:00
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-15
Sample Size:	25.6 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_137 S: 14** **DX82_242 S: 8**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0096	1	0.00e+00	4.80e-03	
1,2,3,7,8-PECDD		0.019	0.0079	1	1.90e-02	1.90e-02	
1,2,3,4,7,8-HXCDD	U		0.0135	0.1	0.00e+00	6.75e-04	
1,2,3,6,7,8-HXCDD		0.048	0.0135	0.1	4.80e-03	4.80e-03	
1,2,3,7,8,9-HXCDD	U		0.0135	0.1	0.00e+00	6.75e-04	
1,2,3,4,6,7,8-HPCDD	U		0.0074	0.01	0.00e+00	3.70e-05	
OCDD		0.108	0.0130	0.0003	3.24e-05	3.24e-05	
2,3,7,8-TCDF	U		0.0610	0.1	0.00e+00	3.05e-03	
1,2,3,7,8-PECDF	U		0.0072	0.03	0.00e+00	1.08e-04	
2,3,4,7,8-PECDF	U		0.0072	0.3	0.00e+00	1.08e-03	
1,2,3,4,7,8-HXCDF	U		0.0111	0.1	0.00e+00	5.55e-04	
1,2,3,6,7,8-HXCDF	U		0.0111	0.1	0.00e+00	5.55e-04	
1,2,3,7,8,9-HXCDF	U		0.0111	0.1	0.00e+00	5.55e-04	
2,3,4,6,7,8-HXCDF	U		0.0111	0.1	0.00e+00	5.55e-04	
1,2,3,4,6,7,8-HPCDF	U		0.0059	0.01	0.00e+00	2.95e-05	
1,2,3,4,7,8,9-HPCDF	U		0.0059	0.01	0.00e+00	2.95e-05	
OCDF		0.046	0.0052	0.0003	1.38e-05	1.38e-05	
			TOTAL TEQ		0.0238	0.0366	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-15_TEQ_SJ881936.html; Workgroup: WG25699; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-hepato
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-16
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 03:11:38	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_242 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_242 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	77.1 15.1

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD		1.57	0.0198	0.77	1.001
1,2,3,7,8-PECDD [3]		3.86	0.0515	0.62	1.001
1,2,3,4,7,8-HXCDD		1.40	0.0793	1.29	1.000
1,2,3,6,7,8-HXCDD		9.04	0.0793	1.22	1.000
1,2,3,7,8,9-HXCDD		2.38	0.0793	1.25	1.010
1,2,3,4,6,7,8-HPCDD		5.45	0.0444	1.03	1.000
OCDD		3.43	0.134	0.89	1.000
2,3,7,8-TCDF		31.3	0.116	0.77	1.001
1,2,3,7,8-PECDF		1.00	0.0404	1.52	1.000
2,3,4,7,8-PECDF		2.60	0.0404	1.55	1.000
1,2,3,4,7,8-HXCDF		1.02	0.0369	1.20	1.000
1,2,3,6,7,8-HXCDF		0.644	0.0369	1.22	1.000
1,2,3,7,8,9-HXCDF	U		0.0369		
2,3,4,6,7,8-HXCDF	J	0.468	0.0369	1.23	1.000
1,2,3,4,6,7,8-HPCDF		1.64	0.0508	1.05	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0508		
OCDF	J	0.155	0.0393	0.78	1.002
TOTAL TETRA-DIOXINS		7.79	0.0198		
TOTAL PENTA-DIOXINS		14.9	0.0515		
TOTAL HEXA-DIOXINS		35.6	0.0793		
TOTAL HEPTA-DIOXINS		13.1	0.0444		
TOTAL TETRA-FURANS		53.0	0.116		
TOTAL PENTA-FURANS		19.8	0.0404		
TOTAL HEXA-FURANS		10.9	0.0369		
TOTAL HEPTA-FURANS		2.12	0.0508		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-16_Form1A_DX82_242S9_SJ881172.html; Workgroup: WG25701; Design ID: 883]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-hepato
Sample Collection:
23-Jun-2008 14:00

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-16
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 03:11:38	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_242 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_242 S: 1
Concentration Units:	pg absolute	**% Moisture:**	77.1
		% Lipid:	15.1

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1120	55.9	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1190	59.7	0.63	1.388
13C-1,2,3,4,7,8-HXCDD		2000	1090	54.6	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1160	58.2	1.26	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1050	52.3	1.05	1.094
13C-OCDD		4000	1860	46.4	0.90	1.178
13C-2,3,7,8-TCDF		2000	1170	58.6	0.78	0.968
13C-1,2,3,7,8-PECDF		2000	1130	56.4	1.56	1.289
13C-2,3,4,7,8-PECDF		2000	1130	56.3	1.57	1.357
13C-1,2,3,4,7,8-HXCDF		2000	1110	55.6	0.51	0.955
13C-1,2,3,6,7,8-HXCDF		2000	1140	57.0	0.52	0.959
13C-1,2,3,7,8,9-HXCDF		2000	1050	52.6	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1040	51.9	0.52	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1030	51.7	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1010	50.6	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	107	53.6		1.017

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 22-Jul-2008 09:09:26; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613DB5_L11328-16_Form2_DX82_242S9_SJ881172.html; Workgroup: WG25701; Design ID: 883]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-hepato
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-16
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	08-Jul-2008 **Time:** 12:18:33	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_134A S: 8**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_134A S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	77.1 15.1

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		27.0	0.0469	0.79	1.000

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-16_Form1A_DB83_134AS8_SJ881638.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-hepato

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:00
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-16
Sample Size:	25.2 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_134A S: 8** **DX82_242 S: 9**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD		1.57	0.0198	1	1.57e+00	1.57e+00	
1,2,3,7,8-PECDD		3.86	0.0515	1	3.86e+00	3.86e+00	
1,2,3,4,7,8-HXCDD		1.40	0.0793	0.1	1.40e-01	1.40e-01	
1,2,3,6,7,8-HXCDD		9.04	0.0793	0.1	9.04e-01	9.04e-01	
1,2,3,7,8,9-HXCDD		2.38	0.0793	0.1	2.38e-01	2.38e-01	
1,2,3,4,6,7,8-HPCDD		5.45	0.0444	0.01	5.45e-02	5.45e-02	
OCDD		3.43	0.134	0.0003	1.03e-03	1.03e-03	
2,3,7,8-TCDF		27.0	0.0469	0.1	2.70e+00	2.70e+00	
1,2,3,7,8-PECDF		1.00	0.0404	0.03	3.00e-02	3.00e-02	
2,3,4,7,8-PECDF		2.60	0.0404	0.3	7.80e-01	7.80e-01	
1,2,3,4,7,8-HXCDF		1.02	0.0369	0.1	1.02e-01	1.02e-01	
1,2,3,6,7,8-HXCDF		0.644	0.0369	0.1	6.44e-02	6.44e-02	
1,2,3,7,8,9-HXCDF	U		0.0369	0.1	0.00e+00	1.85e-03	
2,3,4,6,7,8-HXCDF		0.468	0.0369	0.1	4.68e-02	4.68e-02	
1,2,3,4,6,7,8-HPCDF		1.64	0.0508	0.01	1.64e-02	1.64e-02	
1,2,3,4,7,8,9-HPCDF	U		0.0508	0.01	0.00e+00	2.54e-04	
OCDF		0.155	0.0393	0.0003	4.65e-05	4.65e-05	
			TOTAL TEQ		10.5	10.5	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: TEQ.xsl; Created: 22-Jul-2008 09:11:43; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613-TEQ_L11328-16_TEQ_SJ881638.html; Workgroup: WG25701; Design ID: 883]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-tissue
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-17 (A)
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 04:06:01	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_242 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_242 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	79.6
		% Lipid:	0.26

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.044	0.0199	0.49	1.001
1,2,3,7,8-PECDD [3]	J	0.068	0.0518	0.65	1.000
1,2,3,4,7,8-HXCDD	U		0.0796		
1,2,3,6,7,8-HXCDD	J	0.168	0.0796	1.24	1.000
1,2,3,7,8,9-HXCDD	U		0.0796		
1,2,3,4,6,7,8-HPCDD	J	0.137	0.0446	1.12	1.000
OCDD	J	0.186	0.134	0.94	1.000
2,3,7,8-TCDF		0.255	0.0199	0.78	1.001
1,2,3,7,8-PECDF	U		0.0406		
2,3,4,7,8-PECDF	J	0.042	0.0406	1.63	1.001
1,2,3,4,7,8-HXCDF	U		0.0370		
1,2,3,6,7,8-HXCDF	U		0.0370		
1,2,3,7,8,9-HXCDF	U		0.0370		
2,3,4,6,7,8-HXCDF	U		0.0370		
1,2,3,4,6,7,8-HPCDF	U		0.0510		
1,2,3,4,7,8,9-HPCDF	U		0.0510		
OCDF	U		0.0394		
TOTAL TETRA-DIOXINS		0.296	0.0199		
TOTAL PENTA-DIOXINS		0.068	0.0518		
TOTAL HEXA-DIOXINS		0.696	0.0796		
TOTAL HEPTA-DIOXINS		0.300	0.0446		
TOTAL TETRA-FURANS		0.767	0.0199		
TOTAL PENTA-FURANS		0.293	0.0406		
TOTAL HEXA-FURANS		0.125	0.0370		
TOTAL HEPTA-FURANS	U		0.0510		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-17_Form1A_DX82_242S10_SJ881173.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-tissue
Sample Collection:
23-Jun-2008 14:00

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-17 (A)
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 04:06:01	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_242 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_242 S: 1
Concentration Units:	pg absolute	**% Moisture:**	79.6
		% Lipid:	0.26

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1260	62.8	0.80	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1390	69.7	0.63	1.388
13C-1,2,3,4,7,8-HXCDD		2000	1310	65.5	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1360	68.2	1.24	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1290	64.5	1.02	1.094
13C-OCDD		4000	2400	60.1	0.90	1.178
13C-2,3,7,8-TCDF		2000	1290	64.3	0.79	0.969
13C-1,2,3,7,8-PECDF		2000	1360	68.2	1.55	1.290
13C-2,3,4,7,8-PECDF		2000	1310	65.7	1.57	1.358
13C-1,2,3,4,7,8-HXCDF		2000	1270	63.7	0.52	0.955
13C-1,2,3,6,7,8-HXCDF		2000	1350	67.6	0.52	0.959
13C-1,2,3,7,8,9-HXCDF		2000	1220	60.9	0.52	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1260	63.0	0.52	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1200	59.9	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1160	58.1	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	156	78.2		1.017

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-17_Form2_DX82_242S10_SJ881173.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-tissue
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-17 (A)
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	08-Jul-2008 **Time:** 12:54:09	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_134A S: 9**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_134A S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	79.6 0.26

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		0.185	0.0224	0.77	1.000

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-17_Form1A_DB83_134AS9_SJ881639.html; Workgroup: WG25701; Design ID: 883]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-tissue

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:00
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-17 (A)
Sample Size:	25.1 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_134A S: 9** **DX82_242 S: 10**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0199	1	0.00e+00	9.95e-03	
1,2,3,7,8-PECDD		0.068	0.0518	1	6.80e-02	6.80e-02	
1,2,3,4,7,8-HXCDD	U		0.0796	0.1	0.00e+00	3.98e-03	
1,2,3,6,7,8-HXCDD		0.168	0.0796	0.1	1.68e-02	1.68e-02	
1,2,3,7,8,9-HXCDD	U		0.0796	0.1	0.00e+00	3.98e-03	
1,2,3,4,6,7,8-HPCDD		0.137	0.0446	0.01	1.37e-03	1.37e-03	
OCDD		0.186	0.134	0.0003	5.58e-05	5.58e-05	
2,3,7,8-TCDF		0.185	0.0224	0.1	1.85e-02	1.85e-02	
1,2,3,7,8-PECDF	U		0.0406	0.03	0.00e+00	6.09e-04	
2,3,4,7,8-PECDF		0.042	0.0406	0.3	1.26e-02	1.26e-02	
1,2,3,4,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,6,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,7,8,9-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
2,3,4,6,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,4,6,7,8-HPCDF	U		0.0510	0.01	0.00e+00	2.55e-04	
1,2,3,4,7,8,9-HPCDF	U		0.0510	0.01	0.00e+00	2.55e-04	
OCDF	U		0.0394	0.0003	0.00e+00	5.91e-06	
			TOTAL TEQ		0.117	0.144	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: TEQ.xsl; Created: 22-Jul-2008 09:11:43; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613-TEQ_L11328-17_TEQ_SJ881639.html; Workgroup: WG25701; Design ID: 883]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-tissue (Duplicate)
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	WG25701-103 (DUP L11328-17)
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 05:00:24	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_242 S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_242 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	79.7
		% Lipid:	0.25

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.051	0.0198	0.40	1.000
1,2,3,7,8-PECDD [3]	J	0.067	0.0514	0.60	1.000
1,2,3,4,7,8-HXCDD	U		0.0791		
1,2,3,6,7,8-HXCDD	J	0.187	0.0791	1.27	1.000
1,2,3,7,8,9-HXCDD	U		0.0791		
1,2,3,4,6,7,8-HPCDD	J	0.133	0.0443	1.02	1.000
OCDD	J	0.152	0.133	0.97	1.000
2,3,7,8-TCDF		0.273	0.0198	0.78	1.001
1,2,3,7,8-PECDF	U		0.0403		
2,3,4,7,8-PECDF	U		0.0403		
1,2,3,4,7,8-HXCDF	U		0.0368		
1,2,3,6,7,8-HXCDF	U		0.0368		
1,2,3,7,8,9-HXCDF	U		0.0368		
2,3,4,6,7,8-HXCDF	U		0.0368		
1,2,3,4,6,7,8-HPCDF	U		0.0506		
1,2,3,4,7,8,9-HPCDF	U		0.0506		
OCDF	U		0.0392		
TOTAL TETRA-DIOXINS		0.301	0.0198		
TOTAL PENTA-DIOXINS		0.287	0.0514		
TOTAL HEXA-DIOXINS		0.741	0.0791		
TOTAL HEPTA-DIOXINS		0.305	0.0443		
TOTAL TETRA-FURANS		0.891	0.0198		
TOTAL PENTA-FURANS		0.134	0.0403		
TOTAL HEXA-FURANS		0.086	0.0368		
TOTAL HEPTA-FURANS	U		0.0506		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_WG25701-103_Form1A_DX82_242S11_SJ881174.html; Workgroup: WG25701; Design ID: 883]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-tissue (Duplicate)
Sample Collection:
23-Jun-2008 14:00

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	WG25701-103 (DUP L11328-17)
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 05:00:24	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_242 S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_242 S: 1
Concentration Units:	pg absolute	**% Moisture:**	79.7
		% Lipid:	0.25

LABELED COMPOUND	LAB FLAG [1]	SPIKE CONC.	CONC. FOUND	R(%) [2]	ION ABUND. RATIO [3]	RRT [3]
13C-2,3,7,8-TCDD		2000	1340	67.0	0.80	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1510	75.7	0.62	1.388
13C-1,2,3,4,7,8-HXCDD		2000	1400	70.1	1.25	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1440	72.2	1.24	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1390	69.4	1.04	1.094
13C-OCDD		4000	2550	63.6	0.89	1.178
13C-2,3,7,8-TCDF		2000	1350	67.4	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	1410	70.7	1.57	1.289
13C-2,3,4,7,8-PECDF		2000	1420	71.2	1.56	1.358
13C-1,2,3,4,7,8-HXCDF		2000	1360	67.8	0.53	0.955
13C-1,2,3,6,7,8-HXCDF		2000	1420	71.2	0.53	0.959
13C-1,2,3,7,8,9-HXCDF		2000	1340	67.0	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1340	66.8	0.52	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1300	65.1	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1300	65.2	0.44	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	155	77.3		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_WG25701-103_Form2_DX82_242S11_SJ881174.html; Workgroup: WG25701; Design ID: 883]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-tissue (Duplicate)
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	WG25701-103 (DUP L11328-17)
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	08-Jul-2008 **Time:** 13:29:43	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_134A S: 10**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_134A S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	79.7 0.25

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	K	0.161	0.0279	0.57	1.001

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_WG25701-103_Form1A_DB83_134AS10_SJ881640.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

PCDD/PCDF ANALYSIS TEQ DATA REPORT

CLIENT SAMPLE NO.
A2R2-DC-tissue (Duplicate)

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Sample Collection: 23-Jun-2008 14:00

Contract No.: 4406

Project No. FIDALGO BAY TISSUE INVESTIGATION

Matrix: TISSUE

Lab Sample I.D.: WG25701-103 (DUP L11328-17)

Sample Size: 25.2 g (wet)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (wet weight basis)

Sample Data Filenames: **DB83_134A S: 10**
DX82_242 S: 11

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0198	1	0.00e+00	9.90e-03	
1,2,3,7,8-PECDD		0.067	0.0514	1	6.70e-02	6.70e-02	
1,2,3,4,7,8-HXCDD	U		0.0791	0.1	0.00e+00	3.96e-03	
1,2,3,6,7,8-HXCDD		0.187	0.0791	0.1	1.87e-02	1.87e-02	
1,2,3,7,8,9-HXCDD	U		0.0791	0.1	0.00e+00	3.96e-03	
1,2,3,4,6,7,8-HPCDD		0.133	0.0443	0.01	1.33e-03	1.33e-03	
OCDD		0.152	0.133	0.0003	4.56e-05	4.56e-05	
2,3,7,8-TCDF	U		0.0279	0.1	0.00e+00	1.40e-03	
1,2,3,7,8-PECDF	U		0.0403	0.03	0.00e+00	6.05e-04	
2,3,4,7,8-PECDF	U		0.0403	0.3	0.00e+00	6.05e-03	
1,2,3,4,7,8-HXCDF	U		0.0368	0.1	0.00e+00	1.84e-03	
1,2,3,6,7,8-HXCDF	U		0.0368	0.1	0.00e+00	1.84e-03	
1,2,3,7,8,9-HXCDF	U		0.0368	0.1	0.00e+00	1.84e-03	
2,3,4,6,7,8-HXCDF	U		0.0368	0.1	0.00e+00	1.84e-03	
1,2,3,4,6,7,8-HPCDF	U		0.0506	0.01	0.00e+00	2.53e-04	
1,2,3,4,7,8,9-HPCDF	U		0.0506	0.01	0.00e+00	2.53e-04	
OCDF	U		0.0392	0.0003	0.00e+00	5.88e-06	
			TOTAL TEQ		0.0871	0.121	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_WG25701-103_TEQ_SJ881640.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

PCDD/PCDF ANALYSIS REPORT
RELATIVE PERCENT DIFFERENCE

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Project No. FIDALGO BAY TISSUE INVESTIGATION

Contract No.: 4406

Client ID: A2R2-DC-tissue

Concentration Units: pg/g (wet weight basis)

COMPOUND	L11328-17 (A) LAB FLAG [1]	L11328-17 (A) CONC. FOUND	WG25701-103 LAB FLAG [1]	WG25701-103 CONC. FOUND	MEAN	RELATIVE PERCENT DIFFERENCE
2,3,7,8-TCDD	K J	0.044	K J	0.051		
1,2,3,7,8-PECDD	J	0.068	J	0.067	0.067	1.70
1,2,3,4,7,8-HXCDD	U		U			
1,2,3,6,7,8-HXCDD	J	0.168	J	0.187	0.177	10.4
1,2,3,7,8,9-HXCDD	U		U			
1,2,3,4,6,7,8-HPCDD	J	0.137	J	0.133	0.135	3.35
OCDD	J	0.186	J	0.152	0.169	19.8
2,3,7,8-TCDF		0.185	K	0.161		
1,2,3,7,8-PECDF	U		U			
2,3,4,7,8-PECDF	J	0.042	U			
1,2,3,4,7,8-HXCDF	U		U			
1,2,3,6,7,8-HXCDF	U		U			
1,2,3,7,8,9-HXCDF	U		U			
2,3,4,6,7,8-HXCDF	U		U			
1,2,3,4,6,7,8-HPCDF	U		U			
1,2,3,4,7,8,9-HPCDF	U		U			
OCDF	U		U			

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: RPD_DIOXINS_1613-RPD_WG25701-103_L11328-17_.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-other
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-18
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 05:54:47	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_242 S: 12**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_242 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	85.1
		% Lipid:	1.03

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K	0.134	0.0199	0.60	1.001
1,2,3,7,8-PECDD [3]	J	0.233	0.0517	0.59	1.000
1,2,3,4,7,8-HXCDD	U		0.0795		
1,2,3,6,7,8-HXCDD	J	0.486	0.0795	1.24	1.000
1,2,3,7,8,9-HXCDD	J	0.156	0.0795	1.13	1.010
1,2,3,4,6,7,8-HPCDD	J	0.363	0.0445	1.00	1.000
OCDD	J	0.499	0.134	0.94	1.000
2,3,7,8-TCDF		1.54	0.0262	0.76	1.001
1,2,3,7,8-PECDF	J	0.072	0.0406	1.43	1.000
2,3,4,7,8-PECDF	K J	0.140	0.0406	1.24	1.001
1,2,3,4,7,8-HXCDF	J	0.077	0.0370	1.16	1.000
1,2,3,6,7,8-HXCDF	J	0.048	0.0370	1.10	1.000
1,2,3,7,8,9-HXCDF	U		0.0370		
2,3,4,6,7,8-HXCDF	U		0.0370		
1,2,3,4,6,7,8-HPCDF	J	0.126	0.0509	1.05	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0509		
OCDF	U		0.0394		
TOTAL TETRA-DIOXINS		1.06	0.0199		
TOTAL PENTA-DIOXINS		0.769	0.0517		
TOTAL HEXA-DIOXINS		1.88	0.0795		
TOTAL HEPTA-DIOXINS		0.800	0.0445		
TOTAL TETRA-FURANS		3.51	0.0262		
TOTAL PENTA-FURANS		0.968	0.0406		
TOTAL HEXA-FURANS		0.558	0.0370		
TOTAL HEPTA-FURANS		0.126	0.0509		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-18_Form1A_DX82_242S12_SJ881175.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-other
Sample Collection:
23-Jun-2008 14:00

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-18
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 05:54:47	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_242 S: 12**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_242 S: 1
Concentration Units:	pg absolute	**% Moisture:**	85.1
		% Lipid:	1.03

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1230	61.6	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1370	68.5	0.63	1.388
13C-1,2,3,4,7,8-HXCDD		2000	1300	64.8	1.25	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1320	65.8	1.24	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1260	62.9	1.02	1.094
13C-OCDD		4000	2300	57.6	0.90	1.178
13C-2,3,7,8-TCDF		2000	1300	65.0	0.78	0.968
13C-1,2,3,7,8-PECDF		2000	1290	64.5	1.54	1.289
13C-2,3,4,7,8-PECDF		2000	1330	66.5	1.55	1.357
13C-1,2,3,4,7,8-HXCDF		2000	1300	65.1	0.52	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1310	65.5	0.52	0.959
13C-1,2,3,7,8,9-HXCDF		2000	1250	62.5	0.52	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1260	63.0	0.52	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1210	60.6	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1220	61.2	0.44	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	162	81.2		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-18_Form2_DX82_242S12_SJ881175.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-other
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-18
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	08-Jul-2008 **Time:** 14:05:22	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_134A S: 11**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_134A S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	85.1 1.03

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		1.30	0.0306	0.86	1.002

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-18_Form1A_DB83_134AS11_SJ881641.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-DC-other

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:00
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-18
Sample Size:	25.1 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_134A S: 11** **DX82_242 S: 12**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0199	1	0.00e+00	9.95e-03	
1,2,3,7,8-PECDD		0.233	0.0517	1	2.33e-01	2.33e-01	
1,2,3,4,7,8-HXCDD	U		0.0795	0.1	0.00e+00	3.98e-03	
1,2,3,6,7,8-HXCDD		0.486	0.0795	0.1	4.86e-02	4.86e-02	
1,2,3,7,8,9-HXCDD		0.156	0.0795	0.1	1.56e-02	1.56e-02	
1,2,3,4,6,7,8-HPCDD		0.363	0.0445	0.01	3.63e-03	3.63e-03	
OCDD		0.499	0.134	0.0003	1.50e-04	1.50e-04	
2,3,7,8-TCDF		1.30	0.0306	0.1	1.30e-01	1.30e-01	
1,2,3,7,8-PECDF		0.072	0.0406	0.03	2.16e-03	2.16e-03	
2,3,4,7,8-PECDF	U		0.0406	0.3	0.00e+00	6.09e-03	
1,2,3,4,7,8-HXCDF		0.077	0.0370	0.1	7.70e-03	7.70e-03	
1,2,3,6,7,8-HXCDF		0.048	0.0370	0.1	4.80e-03	4.80e-03	
1,2,3,7,8,9-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
2,3,4,6,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,4,6,7,8-HPCDF		0.126	0.0509	0.01	1.26e-03	1.26e-03	
1,2,3,4,7,8,9-HPCDF	U		0.0509	0.01	0.00e+00	2.55e-04	
OCDF	U		0.0394	0.0003	0.00e+00	5.91e-06	
			TOTAL TEQ		0.447	0.471	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-18_TEQ_SJ881641.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-DC-hepato
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-19
Matrix:	TISSUE	**Sample Size:**	24.8 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 13:24:01	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_243A S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_243A S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	81.4
		% Lipid:	8.29

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD		0.600	0.0202	0.76	1.001
1,2,3,7,8-PECDD [3]		2.27	0.0525	0.61	1.001
1,2,3,4,7,8-HXCDD		1.08	0.0808	1.24	1.000
1,2,3,6,7,8-HXCDD		7.14	0.0808	1.23	1.000
1,2,3,7,8,9-HXCDD		2.06	0.0808	1.25	1.010
1,2,3,4,6,7,8-HPCDD		3.88	0.0453	1.08	1.000
OCDD		2.51	0.136	0.87	1.000
2,3,7,8-TCDF		7.77	0.0411	0.77	1.001
1,2,3,7,8-PECDF		0.703	0.0412	1.57	1.001
2,3,4,7,8-PECDF		1.55	0.0412	1.54	1.000
1,2,3,4,7,8-HXCDF		0.911	0.0395	1.24	1.000
1,2,3,6,7,8-HXCDF		0.518	0.0395	1.29	1.000
1,2,3,7,8,9-HXCDF	U		0.0395		
2,3,4,6,7,8-HXCDF	J	0.363	0.0395	1.24	1.000
1,2,3,4,6,7,8-HPCDF		1.22	0.0517	1.07	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0517		
OCDF	J	0.089	0.0400	0.86	1.002
TOTAL TETRA-DIOXINS		4.65	0.0202		
TOTAL PENTA-DIOXINS		10.6	0.0525		
TOTAL HEXA-DIOXINS		28.0	0.0808		
TOTAL HEPTA-DIOXINS		7.84	0.0453		
TOTAL TETRA-FURANS		24.5	0.0411		
TOTAL PENTA-FURANS		15.9	0.0412		
TOTAL HEXA-FURANS		8.31	0.0395		
TOTAL HEPTA-FURANS		1.48	0.0517		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-19_Form1A_DX82_243AS5_SJ881176.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-DC-hepato
Sample Collection:
23-Jun-2008 14:00

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-19
Matrix:	TISSUE	**Sample Size:**	24.8 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 13:24:01	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_243A S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_243A S: 1
Concentration Units:	pg absolute	**% Moisture:**	81.4
		% Lipid:	8.29

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1440	71.8	0.80	1.014
13C-1,2,3,7,8-PECDD [4]		2000	1510	75.5	0.62	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1530	76.6	1.27	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1550	77.5	1.25	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1450	72.5	1.04	1.094
13C-OCDD		4000	2590	64.6	0.89	1.178
13C-2,3,7,8-TCDF		2000	1500	75.2	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	1460	72.9	1.57	1.288
13C-2,3,4,7,8-PECDF		2000	1450	72.3	1.54	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1550	77.7	0.53	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1540	76.9	0.54	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1480	74.2	0.54	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1530	76.4	0.54	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1440	72.0	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1440	71.8	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	155	77.6		1.015

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-19_Form2_DX82_243AS5_SJ881176.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-DC-hepato
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-19
Matrix:	TISSUE	**Sample Size:**	24.8 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	08-Jul-2008 **Time:** 14:41:00	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_134A S: 12**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_134A S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	81.4 8.29

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		5.92	0.0427	0.79	1.001

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-19_Form1A_DB83_134AS12_SJ881642.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-DC-hepato

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:00
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-19
Sample Size:	24.8 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_134A S: 12** **DX82_243A S: 5**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD		0.600	0.0202	1	6.00e-01	6.00e-01	
1,2,3,7,8-PECDD		2.27	0.0525	1	2.27e+00	2.27e+00	
1,2,3,4,7,8-HXCDD		1.08	0.0808	0.1	1.08e-01	1.08e-01	
1,2,3,6,7,8-HXCDD		7.14	0.0808	0.1	7.14e-01	7.14e-01	
1,2,3,7,8,9-HXCDD		2.06	0.0808	0.1	2.06e-01	2.06e-01	
1,2,3,4,6,7,8-HPCDD		3.88	0.0453	0.01	3.88e-02	3.88e-02	
OCDD		2.51	0.136	0.0003	7.53e-04	7.53e-04	
2,3,7,8-TCDF		5.92	0.0427	0.1	5.92e-01	5.92e-01	
1,2,3,7,8-PECDF		0.703	0.0412	0.03	2.11e-02	2.11e-02	
2,3,4,7,8-PECDF		1.55	0.0412	0.3	4.65e-01	4.65e-01	
1,2,3,4,7,8-HXCDF		0.911	0.0395	0.1	9.11e-02	9.11e-02	
1,2,3,6,7,8-HXCDF		0.518	0.0395	0.1	5.18e-02	5.18e-02	
1,2,3,7,8,9-HXCDF	U		0.0395	0.1	0.00e+00	1.98e-03	
2,3,4,6,7,8-HXCDF		0.363	0.0395	0.1	3.63e-02	3.63e-02	
1,2,3,4,6,7,8-HPCDF		1.22	0.0517	0.01	1.22e-02	1.22e-02	
1,2,3,4,7,8,9-HPCDF	U		0.0517	0.01	0.00e+00	2.59e-04	
OCDF		0.089	0.0400	0.0003	2.67e-05	2.67e-05	
			TOTAL TEQ		5.21	5.21	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-19_TEQ_SJ881642.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-DC-tissue
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-20
Matrix:	TISSUE	**Sample Size:**	25.4 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 14:18:22	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_243A S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_243A S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	79.7
		% Lipid:	0.13

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.031	0.0197	0.37	1.000
1,2,3,7,8-PECDD [3]	K J	0.064	0.0511	0.84	1.000
1,2,3,4,7,8-HXCDD	U		0.0787		
1,2,3,6,7,8-HXCDD	J	0.123	0.0787	1.29	1.000
1,2,3,7,8,9-HXCDD	U		0.0787		
1,2,3,4,6,7,8-HPCDD	J	0.098	0.0441	1.12	1.000
OCDD	J	0.153	0.133	0.78	1.000
2,3,7,8-TCDF		0.178	0.0231	0.72	1.001
1,2,3,7,8-PECDF	U		0.0401		
2,3,4,7,8-PECDF	U		0.0401		
1,2,3,4,7,8-HXCDF	U		0.0366		
1,2,3,6,7,8-HXCDF	U		0.0366		
1,2,3,7,8,9-HXCDF	U		0.0366		
2,3,4,6,7,8-HXCDF	U		0.0366		
1,2,3,4,6,7,8-HPCDF	U		0.0504		
1,2,3,4,7,8,9-HPCDF	U		0.0504		
OCDF	U		0.0389		
TOTAL TETRA-DIOXINS		0.168	0.0197		
TOTAL PENTA-DIOXINS	U		0.0511		
TOTAL HEXA-DIOXINS		0.411	0.0787		
TOTAL HEPTA-DIOXINS		0.175	0.0441		
TOTAL TETRA-FURANS		0.612	0.0231		
TOTAL PENTA-FURANS		0.208	0.0401		
TOTAL HEXA-FURANS		0.068	0.0366		
TOTAL HEPTA-FURANS	U		0.0504		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-20_Form1A_DX82_243AS6_SJ881177.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-DC-tissue
Sample Collection:
23-Jun-2008 14:00

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-20
Matrix:	TISSUE	**Sample Size:**	25.4 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 14:18:22	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_243A S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_243A S: 1
Concentration Units:	pg absolute	**% Moisture:**	79.7
		% Lipid:	0.13

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	926	46.3	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1030	51.7	0.62	1.386
13C-1,2,3,4,7,8-HXCDD		2000	1080	54.0	1.24	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1120	55.8	1.24	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1180	58.9	1.05	1.094
13C-OCDD		4000	2150	53.7	0.90	1.178
13C-2,3,7,8-TCDF		2000	971	48.5	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	946	47.3	1.56	1.288
13C-2,3,4,7,8-PECDF		2000	924	46.2	1.55	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1060	53.1	0.53	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1110	55.5	0.54	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1080	53.8	0.54	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1090	54.7	0.52	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1060	52.8	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1090	54.7	0.46	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	144	72.2		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-20_Form2_DX82_243AS6_SJ881177.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-DC-tissue
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-20
Matrix:	TISSUE	**Sample Size:**	25.4 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	08-Jul-2008 **Time:** 15:16:39	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_134A S: 13**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_134A S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	79.7 0.13

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		0.128	0.0293	0.68	1.002

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-20_Form1A_DB83_134AS13_SJ881643.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-DC-tissue

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:00
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-20
Sample Size:	25.4 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_134A S: 13** **DX82_243A S: 6**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0197	1	0.00e+00	9.85e-03	
1,2,3,7,8-PECDD	U		0.0511	1	0.00e+00	2.56e-02	
1,2,3,4,7,8-HXCDD	U		0.0787	0.1	0.00e+00	3.94e-03	
1,2,3,6,7,8-HXCDD		0.123	0.0787	0.1	1.23e-02	1.23e-02	
1,2,3,7,8,9-HXCDD	U		0.0787	0.1	0.00e+00	3.94e-03	
1,2,3,4,6,7,8-HPCDD		0.098	0.0441	0.01	9.80e-04	9.80e-04	
OCDD		0.153	0.133	0.0003	4.59e-05	4.59e-05	
2,3,7,8-TCDF		0.128	0.0293	0.1	1.28e-02	1.28e-02	
1,2,3,7,8-PECDF	U		0.0401	0.03	0.00e+00	6.02e-04	
2,3,4,7,8-PECDF	U		0.0401	0.3	0.00e+00	6.02e-03	
1,2,3,4,7,8-HXCDF	U		0.0366	0.1	0.00e+00	1.83e-03	
1,2,3,6,7,8-HXCDF	U		0.0366	0.1	0.00e+00	1.83e-03	
1,2,3,7,8,9-HXCDF	U		0.0366	0.1	0.00e+00	1.83e-03	
2,3,4,6,7,8-HXCDF	U		0.0366	0.1	0.00e+00	1.83e-03	
1,2,3,4,6,7,8-HPCDF	U		0.0504	0.01	0.00e+00	2.52e-04	
1,2,3,4,7,8,9-HPCDF	U		0.0504	0.01	0.00e+00	2.52e-04	
OCDF	U		0.0389	0.0003	0.00e+00	5.84e-06	
			TOTAL TEQ		0.0261	0.0838	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-DC-other
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-21
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 15:12:44	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_243A S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_243A S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	85.4
		% Lipid:	1.22

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.100	0.0199	0.56	1.000
1,2,3,7,8-PECDD [3]	J	0.296	0.0518	0.64	1.000
1,2,3,4,7,8-HXCDD	J	0.120	0.0796	1.18	1.000
1,2,3,6,7,8-HXCDD		0.760	0.0796	1.34	1.000
1,2,3,7,8,9-HXCDD	J	0.243	0.0796	1.23	1.010
1,2,3,4,6,7,8-HPCDD		0.620	0.0446	1.08	1.000
OCDD		1.60	0.134	0.89	1.000
2,3,7,8-TCDF		1.11	0.0199	0.79	1.002
1,2,3,7,8-PECDF	K J	0.091	0.0406	1.28	1.000
2,3,4,7,8-PECDF	J	0.178	0.0406	1.61	1.000
1,2,3,4,7,8-HXCDF	J	0.102	0.0370	1.17	1.000
1,2,3,6,7,8-HXCDF	J	0.063	0.0370	1.38	1.000
1,2,3,7,8,9-HXCDF	U		0.0370		
2,3,4,6,7,8-HXCDF	J	0.037	0.0370	1.31	1.000
1,2,3,4,6,7,8-HPCDF	J	0.184	0.0510	1.14	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0510		
OCDF	J	0.102	0.0394	0.83	1.002
TOTAL TETRA-DIOXINS		1.08	0.0199		
TOTAL PENTA-DIOXINS		1.02	0.0518		
TOTAL HEXA-DIOXINS		3.04	0.0796		
TOTAL HEPTA-DIOXINS		1.42	0.0446		
TOTAL TETRA-FURANS		3.83	0.0199		
TOTAL PENTA-FURANS		1.61	0.0406		
TOTAL HEXA-FURANS		0.868	0.0370		
TOTAL HEPTA-FURANS		0.285	0.0510		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-DC-other
Sample Collection:
23-Jun-2008 14:00

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-21
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 15:12:44	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_243A S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_243A S: 1
Concentration Units:	pg absolute	**% Moisture:**	85.4
		% Lipid:	1.22

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1440	72.0	0.80	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1440	71.8	0.64	1.386
13C-1,2,3,4,7,8-HXCDD		2000	1450	72.7	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1480	74.1	1.26	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1490	74.3	1.05	1.094
13C-OCDD		4000	2620	65.6	0.88	1.178
13C-2,3,7,8-TCDF		2000	1530	76.4	0.78	0.968
13C-1,2,3,7,8-PECDF		2000	1410	70.6	1.57	1.288
13C-2,3,4,7,8-PECDF		2000	1430	71.7	1.57	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1510	75.4	0.53	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1530	76.5	0.53	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1480	73.8	0.54	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1510	75.6	0.54	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1430	71.5	0.46	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1460	72.9	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	155	77.7		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-DC-other
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-21
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	08-Jul-2008 **Time:** 15:52:13	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_134A S: 14**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_134A S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	85.4 1.22

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		0.786	0.0387	0.83	1.001

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-DC-other

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:00
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-21
Sample Size:	25.1 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_134A S: 14** **DX82_243A S: 7**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0199	1	0.00e+00	9.95e-03	
1,2,3,7,8-PECDD		0.296	0.0518	1	2.96e-01	2.96e-01	
1,2,3,4,7,8-HXCDD		0.120	0.0796	0.1	1.20e-02	1.20e-02	
1,2,3,6,7,8-HXCDD		0.760	0.0796	0.1	7.60e-02	7.60e-02	
1,2,3,7,8,9-HXCDD		0.243	0.0796	0.1	2.43e-02	2.43e-02	
1,2,3,4,6,7,8-HPCDD		0.620	0.0446	0.01	6.20e-03	6.20e-03	
OCDD		1.60	0.134	0.0003	4.80e-04	4.80e-04	
2,3,7,8-TCDF		0.786	0.0387	0.1	7.86e-02	7.86e-02	
1,2,3,7,8-PECDF	U		0.0406	0.03	0.00e+00	6.09e-04	
2,3,4,7,8-PECDF		0.178	0.0406	0.3	5.34e-02	5.34e-02	
1,2,3,4,7,8-HXCDF		0.102	0.0370	0.1	1.02e-02	1.02e-02	
1,2,3,6,7,8-HXCDF		0.063	0.0370	0.1	6.30e-03	6.30e-03	
1,2,3,7,8,9-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
2,3,4,6,7,8-HXCDF		0.037	0.0370	0.1	3.70e-03	3.70e-03	
1,2,3,4,6,7,8-HPCDF		0.184	0.0510	0.01	1.84e-03	1.84e-03	
1,2,3,4,7,8,9-HPCDF	U		0.0510	0.01	0.00e+00	2.55e-04	
OCDF		0.102	0.0394	0.0003	3.06e-05	3.06e-05	
			TOTAL TEQ		0.569	0.582	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-DC-other
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-22
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 16:07:13	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_243A S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_243A S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	86.0
		% Lipid:	1.12

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K	0.113	0.0200	0.61	1.001
1,2,3,7,8-PECDD [3]	J	0.171	0.0519	0.66	1.000
1,2,3,4,7,8-HXCDD	U		0.0798		
1,2,3,6,7,8-HXCDD	J	0.419	0.0798	1.08	1.000
1,2,3,7,8,9-HXCDD	J	0.178	0.0798	1.28	1.010
1,2,3,4,6,7,8-HPCDD		0.846	0.0447	1.12	1.000
OCDD		2.10	0.135	0.88	1.000
2,3,7,8-TCDF		0.728	0.0200	0.77	1.001
1,2,3,7,8-PECDF	K J	0.057	0.0407	1.08	1.000
2,3,4,7,8-PECDF	J	0.101	0.0407	1.46	1.000
1,2,3,4,7,8-HXCDF	J	0.085	0.0371	1.13	1.000
1,2,3,6,7,8-HXCDF	J	0.042	0.0371	1.29	1.000
1,2,3,7,8,9-HXCDF	U		0.0371		
2,3,4,6,7,8-HXCDF	U		0.0371		
1,2,3,4,6,7,8-HPCDF	J	0.268	0.0511	1.15	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0511		
OCDF	J	0.161	0.0395	0.95	1.002
TOTAL TETRA-DIOXINS		0.986	0.0200		
TOTAL PENTA-DIOXINS		0.618	0.0519		
TOTAL HEXA-DIOXINS		1.94	0.0798		
TOTAL HEPTA-DIOXINS		1.94	0.0447		
TOTAL TETRA-FURANS		2.59	0.0200		
TOTAL PENTA-FURANS		1.15	0.0407		
TOTAL HEXA-FURANS		0.745	0.0371		
TOTAL HEPTA-FURANS		0.416	0.0511		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-22_Form1A_DX82_243AS8_SJ881179.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-DC-other
Sample Collection:
23-Jun-2008 14:00

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-22
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 16:07:13	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_243A S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_243A S: 1
Concentration Units:	pg absolute	**% Moisture:**	86.0
		% Lipid:	1.12

LABELED COMPOUND	LAB FLAG [1]	SPIKE CONC.	CONC. FOUND	R(%) [2]	ION ABUND. RATIO [3]	RRT [3]
13C-2,3,7,8-TCDD		2000	1380	68.9	0.82	1.014
13C-1,2,3,7,8-PECDD [4]		2000	1550	77.6	0.62	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1540	77.0	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1590	79.3	1.25	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1540	77.2	1.03	1.094
13C-OCDD		4000	2800	70.0	0.89	1.178
13C-2,3,7,8-TCDF		2000	1520	76.2	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	1460	73.0	1.57	1.288
13C-2,3,4,7,8-PECDF		2000	1470	73.5	1.56	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1600	80.1	0.51	0.955
13C-1,2,3,6,7,8-HXCDF		2000	1640	82.1	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1500	75.1	0.54	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1580	79.1	0.53	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1490	74.3	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1500	75.2	0.44	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	180	89.9		1.015

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-22_Form2_DX82_243AS8_SJ881179.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-DC-other
Sample Collection:
23-Jun-2008 14:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-22
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	08-Jul-2008 **Time:** 16:27:47	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_134A S: 15**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_134A S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	86.0 1.12

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		0.508	0.0410	0.87	1.001

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-22_Form1A_DB83_134AS15_SJ881645.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-DC-other

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:00
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-22
Sample Size:	25.1 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_134A S: 15** **DX82_243A S: 8**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0200	1	0.00e+00	1.00e-02	
1,2,3,7,8-PECDD		0.171	0.0519	1	1.71e-01	1.71e-01	
1,2,3,4,7,8-HXCDD	U		0.0798	0.1	0.00e+00	3.99e-03	
1,2,3,6,7,8-HXCDD		0.419	0.0798	0.1	4.19e-02	4.19e-02	
1,2,3,7,8,9-HXCDD		0.178	0.0798	0.1	1.78e-02	1.78e-02	
1,2,3,4,6,7,8-HPCDD		0.846	0.0447	0.01	8.46e-03	8.46e-03	
OCDD		2.10	0.135	0.0003	6.30e-04	6.30e-04	
2,3,7,8-TCDF		0.508	0.0410	0.1	5.08e-02	5.08e-02	
1,2,3,7,8-PECDF	U		0.0407	0.03	0.00e+00	6.11e-04	
2,3,4,7,8-PECDF		0.101	0.0407	0.3	3.03e-02	3.03e-02	
1,2,3,4,7,8-HXCDF		0.085	0.0371	0.1	8.50e-03	8.50e-03	
1,2,3,6,7,8-HXCDF		0.042	0.0371	0.1	4.20e-03	4.20e-03	
1,2,3,7,8,9-HXCDF	U		0.0371	0.1	0.00e+00	1.86e-03	
2,3,4,6,7,8-HXCDF	U		0.0371	0.1	0.00e+00	1.86e-03	
1,2,3,4,6,7,8-HPCDF		0.268	0.0511	0.01	2.68e-03	2.68e-03	
1,2,3,4,7,8,9-HPCDF	U		0.0511	0.01	0.00e+00	2.56e-04	
OCDF		0.161	0.0395	0.0003	4.83e-05	4.83e-05	
			TOTAL TEQ		0.336	0.355	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-22_TEQ_SJ881645.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-DC-hepato
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-23
Matrix:	TISSUE	**Sample Size:**	25.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 17:01:34	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_243A S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_243A S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	82.7
		% Lipid:	6.50

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD		0.350	0.0199	0.79	1.001
1,2,3,7,8-PECDD [3]		1.09	0.0519	0.62	1.001
1,2,3,4,7,8-HXCDD		0.617	0.0798	1.28	1.000
1,2,3,6,7,8-HXCDD		3.43	0.0798	1.25	1.000
1,2,3,7,8,9-HXCDD		1.02	0.0798	1.26	1.010
1,2,3,4,6,7,8-HPCDD		4.74	0.0447	1.11	1.000
OCDD		4.51	0.134	0.87	1.000
2,3,7,8-TCDF		3.85	0.0674	0.79	1.001
1,2,3,7,8-PECDF	J	0.348	0.0407	1.58	1.000
2,3,4,7,8-PECDF		0.713	0.0407	1.51	1.000
1,2,3,4,7,8-HXCDF	J	0.536	0.0371	1.30	1.000
1,2,3,6,7,8-HXCDF	J	0.310	0.0371	1.34	1.000
1,2,3,7,8,9-HXCDF	U		0.0371		
2,3,4,6,7,8-HXCDF	J	0.247	0.0371	1.27	1.000
1,2,3,4,6,7,8-HPCDF		1.56	0.0511	1.06	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0511		
OCDF	J	0.330	0.0395	0.90	1.002
TOTAL TETRA-DIOXINS		2.72	0.0199		
TOTAL PENTA-DIOXINS		4.61	0.0519		
TOTAL HEXA-DIOXINS		14.8	0.0798		
TOTAL HEPTA-DIOXINS		9.75	0.0447		
TOTAL TETRA-FURANS		12.3	0.0674		
TOTAL PENTA-FURANS		8.72	0.0407		
TOTAL HEXA-FURANS		6.62	0.0371		
TOTAL HEPTA-FURANS		2.18	0.0511		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-23_Form1A_DX82_243AS9_SJ881180.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-DC-hepato
Sample Collection:
23-Jun-2008 14:40

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-23
Matrix:	TISSUE	**Sample Size:**	25.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 17:01:34	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_243A S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_243A S: 1
Concentration Units:	pg absolute	**% Moisture:**	82.7
		% Lipid:	6.50

LABELED COMPOUND	LAB FLAG [1]	SPIKE CONC.	CONC. FOUND	R(%) [2]	ION ABUND. RATIO [3]	RRT [3]
13C-2,3,7,8-TCDD		2000	1240	62.2	0.80	1.014
13C-1,2,3,7,8-PECDD [4]		2000	1390	69.7	0.63	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1320	65.8	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1320	66.0	1.25	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1190	59.7	1.03	1.094
13C-OCDD		4000	2020	50.5	0.90	1.178
13C-2,3,7,8-TCDF		2000	1280	64.2	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	1260	63.2	1.57	1.288
13C-2,3,4,7,8-PECDF		2000	1290	64.4	1.56	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1330	66.7	0.53	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1320	65.9	0.53	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1290	64.6	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1280	63.9	0.53	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1230	61.6	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1200	60.2	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	157	78.6		1.015

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-23_Form2_DX82_243AS9_SJ881180.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-DC-hepato
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-23
Matrix:	TISSUE	**Sample Size:**	25.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	08-Jul-2008 **Time:** 17:03:20	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_134A S: 16**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_134A S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	82.7 6.50

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		2.94	0.0571	0.72	1.001

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-23_Form1A_DB83_134AS16_SJ881646.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-DC-hepato

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:40
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-23
Sample Size:	25.0 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_134A S: 16** **DX82_243A S: 9**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD		0.350	0.0199	1	3.50e-01	3.50e-01	
1,2,3,7,8-PECDD		1.09	0.0519	1	1.09e+00	1.09e+00	
1,2,3,4,7,8-HXCDD		0.617	0.0798	0.1	6.17e-02	6.17e-02	
1,2,3,6,7,8-HXCDD		3.43	0.0798	0.1	3.43e-01	3.43e-01	
1,2,3,7,8,9-HXCDD		1.02	0.0798	0.1	1.02e-01	1.02e-01	
1,2,3,4,6,7,8-HPCDD		4.74	0.0447	0.01	4.74e-02	4.74e-02	
OCDD		4.51	0.134	0.0003	1.35e-03	1.35e-03	
2,3,7,8-TCDF		2.94	0.0571	0.1	2.94e-01	2.94e-01	
1,2,3,7,8-PECDF		0.348	0.0407	0.03	1.04e-02	1.04e-02	
2,3,4,7,8-PECDF		0.713	0.0407	0.3	2.14e-01	2.14e-01	
1,2,3,4,7,8-HXCDF		0.536	0.0371	0.1	5.36e-02	5.36e-02	
1,2,3,6,7,8-HXCDF		0.310	0.0371	0.1	3.10e-02	3.10e-02	
1,2,3,7,8,9-HXCDF	U		0.0371	0.1	0.00e+00	1.86e-03	
2,3,4,6,7,8-HXCDF		0.247	0.0371	0.1	2.47e-02	2.47e-02	
1,2,3,4,6,7,8-HPCDF		1.56	0.0511	0.01	1.56e-02	1.56e-02	
1,2,3,4,7,8,9-HPCDF	U		0.0511	0.01	0.00e+00	2.56e-04	
OCDF		0.330	0.0395	0.0003	9.90e-05	9.90e-05	
			TOTAL TEQ		2.64	2.64	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-23_TEQ_SJ881646.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-DC-tissue
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-24
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 17:55:56	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_243A S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_243A S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	79.1
		% Lipid:	0.069

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.033	0.0199	0.29	1.001
1,2,3,7,8-PECDD [3]	U		0.0517		
1,2,3,4,7,8-HXCDD	U		0.0795		
1,2,3,6,7,8-HXCDD	U		0.0795		
1,2,3,7,8,9-HXCDD	U		0.0795		
1,2,3,4,6,7,8-HPCDD	K J	0.099	0.0445	1.44	1.000
OCDD	J	0.198	0.134	0.88	1.000
2,3,7,8-TCDF		0.117	0.0199	0.82	1.002
1,2,3,7,8-PECDF	U		0.0406		
2,3,4,7,8-PECDF	U		0.0406		
1,2,3,4,7,8-HXCDF	U		0.0370		
1,2,3,6,7,8-HXCDF	U		0.0370		
1,2,3,7,8,9-HXCDF	U		0.0370		
2,3,4,6,7,8-HXCDF	U		0.0370		
1,2,3,4,6,7,8-HPCDF	U		0.0509		
1,2,3,4,7,8,9-HPCDF	U		0.0509		
OCDF	U		0.0394		
TOTAL TETRA-DIOXINS		0.080	0.0199		
TOTAL PENTA-DIOXINS	U		0.0517		
TOTAL HEXA-DIOXINS		0.124	0.0795		
TOTAL HEPTA-DIOXINS	U		0.0445		
TOTAL TETRA-FURANS		0.309	0.0199		
TOTAL PENTA-FURANS		0.052	0.0406		
TOTAL HEXA-FURANS		0.048	0.0370		
TOTAL HEPTA-FURANS	U		0.0509		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-24_Form1A_DX82_243AS10_SJ881181.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-DC-tissue
Sample Collection:
23-Jun-2008 14:40

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-24
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 17:55:56	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_243A S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_243A S: 1
Concentration Units:	pg absolute	**% Moisture:**	79.1
		% Lipid:	0.069

LABELED COMPOUND	LAB FLAG [1]	SPIKE CONC.	CONC. FOUND	R(%) [2]	ION ABUND. RATIO [3]	RRT [3]
13C-2,3,7,8-TCDD		2000	952	47.6	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1090	54.5	0.62	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1080	54.0	1.28	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1150	57.3	1.25	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1070	53.5	1.04	1.094
13C-OCDD		4000	1870	46.8	0.90	1.178
13C-2,3,7,8-TCDF		2000	937	46.8	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	1010	50.6	1.56	1.288
13C-2,3,4,7,8-PECDF		2000	979	48.9	1.59	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1090	54.6	0.51	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1130	56.3	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1110	55.5	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1070	53.3	0.54	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1040	52.1	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1060	53.0	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	159	79.4		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-24_Form2_DX82_243AS10_SJ881181.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-DC-tissue
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-24
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	08-Jul-2008 **Time:** 17:38:55	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_134A S: 17**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_134A S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	79.1 0.069

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	K J	0.064	0.0430	0.62	1.000

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-24_Form1A_DB83_134AS17_SJ881647.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-DC-tissue

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:40
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-24
Sample Size:	25.1 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_134A S: 17** **DX82_243A S: 10**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0199	1	0.00e+00	9.95e-03	
1,2,3,7,8-PECDD	U		0.0517	1	0.00e+00	2.59e-02	
1,2,3,4,7,8-HXCDD	U		0.0795	0.1	0.00e+00	3.98e-03	
1,2,3,6,7,8-HXCDD	U		0.0795	0.1	0.00e+00	3.98e-03	
1,2,3,7,8,9-HXCDD	U		0.0795	0.1	0.00e+00	3.98e-03	
1,2,3,4,6,7,8-HPCDD	U		0.0445	0.01	0.00e+00	2.23e-04	
OCDD		0.198	0.134	0.0003	5.94e-05	5.94e-05	
2,3,7,8-TCDF	U		0.0430	0.1	0.00e+00	2.15e-03	
1,2,3,7,8-PECDF	U		0.0406	0.03	0.00e+00	6.09e-04	
2,3,4,7,8-PECDF	U		0.0406	0.3	0.00e+00	6.09e-03	
1,2,3,4,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,6,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,7,8,9-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
2,3,4,6,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,4,6,7,8-HPCDF	U		0.0509	0.01	0.00e+00	2.55e-04	
1,2,3,4,7,8,9-HPCDF	U		0.0509	0.01	0.00e+00	2.55e-04	
OCDF	U		0.0394	0.0003	0.00e+00	5.91e-06	
			TOTAL TEQ		0.0000594	0.0648	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-24_TEQ_SJ881647.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-DC-other
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-25
Matrix:	TISSUE	**Sample Size:**	25.3 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 00:36:20	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_244 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_244 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	86.5
		% Lipid:	1.10

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.080	0.0197	0.70	1.001
1,2,3,7,8-PECDD [3]	J	0.145	0.0513	0.65	1.000
1,2,3,4,7,8-HXCDD	U		0.0789		
1,2,3,6,7,8-HXCDD	J	0.288	0.0789	1.16	1.000
1,2,3,7,8,9-HXCDD	J	0.103	0.0789	1.22	1.010
1,2,3,4,6,7,8-HPCDD	J	0.375	0.0442	1.11	1.000
OCDD	J	0.684	0.133	0.88	1.000
2,3,7,8-TCDF		0.583	0.0259	0.76	1.001
1,2,3,7,8-PECDF	J	0.043	0.0403	1.59	1.000
2,3,4,7,8-PECDF	K J	0.085	0.0403	1.15	1.000
1,2,3,4,7,8-HXCDF	J	0.062	0.0367	1.14	1.000
1,2,3,6,7,8-HXCDF	U		0.0367		
1,2,3,7,8,9-HXCDF	U		0.0367		
2,3,4,6,7,8-HXCDF	U		0.0367		
1,2,3,4,6,7,8-HPCDF	K J	0.118	0.0505	1.30	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0505		
OCDF	J	0.049	0.0391	0.88	1.002
TOTAL TETRA-DIOXINS		0.878	0.0197		
TOTAL PENTA-DIOXINS		0.295	0.0513		
TOTAL HEXA-DIOXINS		1.09	0.0789		
TOTAL HEPTA-DIOXINS		0.800	0.0442		
TOTAL TETRA-FURANS		1.90	0.0259		
TOTAL PENTA-FURANS		0.580	0.0403		
TOTAL HEXA-FURANS		0.402	0.0367		
TOTAL HEPTA-FURANS	U		0.0505		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-DC-other
Sample Collection:
23-Jun-2008 14:40

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-25
Matrix:	TISSUE	**Sample Size:**	25.3 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 00:36:20	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_244 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_244 S: 1
Concentration Units:	pg absolute	**% Moisture:**	86.5
		% Lipid:	1.10

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1090	54.4	0.78	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1110	55.6	0.62	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1150	57.6	1.24	0.986
13C-1,2,3,6,7,8-HXCDD		2000	1200	60.2	1.23	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1150	57.3	1.04	1.094
13C-OCDD		4000	2020	50.4	0.91	1.178
13C-2,3,7,8-TCDF		2000	1110	55.6	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	1060	52.8	1.55	1.288
13C-2,3,4,7,8-PECDF		2000	1060	52.9	1.57	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1140	57.1	0.53	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1210	60.5	0.54	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1130	56.4	0.54	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1140	57.0	0.54	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1110	55.6	0.46	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1080	53.9	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	127	63.7		1.015

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-25_Form2_DX82_244S6_SJ881184.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-DC-other
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-25
Matrix:	TISSUE	**Sample Size:**	25.3 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	08-Jul-2008 **Time:** 18:14:32	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_134A S: 18**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_134A S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	86.5 1.10

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		0.441	0.0323	0.75	1.001

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-25_Form1A_DB83_134AS18_SJ881648.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-DC-other

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Sample Collection: 23-Jun-2008 14:40

Contract No.: 4406

Project No. FIDALGO BAY TISSUE INVESTIGATION

Matrix: TISSUE

Lab Sample I.D.: L11328-25

Sample Size: 25.3 g (wet)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (wet weight basis)

Sample Data Filenames: **DB83_134A S: 18**
DX82_244 S: 6

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD		0.080	0.0197	1	8.00e-02	8.00e-02	
1,2,3,7,8-PECDD		0.145	0.0513	1	1.45e-01	1.45e-01	
1,2,3,4,7,8-HXCDD	U		0.0789	0.1	0.00e+00	3.95e-03	
1,2,3,6,7,8-HXCDD		0.288	0.0789	0.1	2.88e-02	2.88e-02	
1,2,3,7,8,9-HXCDD		0.103	0.0789	0.1	1.03e-02	1.03e-02	
1,2,3,4,6,7,8-HPCDD		0.375	0.0442	0.01	3.75e-03	3.75e-03	
OCDD		0.684	0.133	0.0003	2.05e-04	2.05e-04	
2,3,7,8-TCDF		0.441	0.0323	0.1	4.41e-02	4.41e-02	
1,2,3,7,8-PECDF		0.043	0.0403	0.03	1.29e-03	1.29e-03	
2,3,4,7,8-PECDF	U		0.0403	0.3	0.00e+00	6.05e-03	
1,2,3,4,7,8-HXCDF		0.062	0.0367	0.1	6.20e-03	6.20e-03	
1,2,3,6,7,8-HXCDF	U		0.0367	0.1	0.00e+00	1.84e-03	
1,2,3,7,8,9-HXCDF	U		0.0367	0.1	0.00e+00	1.84e-03	
2,3,4,6,7,8-HXCDF	U		0.0367	0.1	0.00e+00	1.84e-03	
1,2,3,4,6,7,8-HPCDF	U		0.0505	0.01	0.00e+00	2.53e-04	
1,2,3,4,7,8,9-HPCDF	U		0.0505	0.01	0.00e+00	2.53e-04	
OCDF		0.049	0.0391	0.0003	1.47e-05	1.47e-05	
			TOTAL TEQ		0.320	0.336	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: TEQ.xsl; Created: 22-Jul-2008 09:11:43; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613-TEQ_L11328-25_TEQ_SJ881648.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-DC-hepato
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-26
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 06:02:43	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_244 S: 12**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_244 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	84.3
		% Lipid:	11.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD		0.416	0.0199	0.75	1.001
1,2,3,7,8-PECDD [3]		1.27	0.0518	0.64	1.001
1,2,3,4,7,8-HXCDD		0.711	0.0797	1.27	1.000
1,2,3,6,7,8-HXCDD		3.25	0.0797	1.22	1.000
1,2,3,7,8,9-HXCDD		1.08	0.0797	1.26	1.011
1,2,3,4,6,7,8-HPCDD		4.28	0.0446	1.02	1.000
OCDD		4.14	0.134	0.91	1.000
2,3,7,8-TCDF		4.46	0.0506	0.78	1.001
1,2,3,7,8-PECDF	J	0.328	0.0406	1.55	1.000
2,3,4,7,8-PECDF		0.761	0.0406	1.48	1.000
1,2,3,4,7,8-HXCDF	J	0.472	0.0399	1.20	1.000
1,2,3,6,7,8-HXCDF	J	0.321	0.0399	1.33	1.001
1,2,3,7,8,9-HXCDF	U		0.0399		
2,3,4,6,7,8-HXCDF	J	0.250	0.0399	1.27	1.000
1,2,3,4,6,7,8-HPCDF		1.33	0.0510	1.04	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0510		
OCDF	J	0.271	0.0394	0.90	1.002
TOTAL TETRA-DIOXINS		2.89	0.0199		
TOTAL PENTA-DIOXINS		4.72	0.0518		
TOTAL HEXA-DIOXINS		13.1	0.0797		
TOTAL HEPTA-DIOXINS		8.49	0.0446		
TOTAL TETRA-FURANS		13.9	0.0506		
TOTAL PENTA-FURANS		8.19	0.0406		
TOTAL HEXA-FURANS		5.69	0.0399		
TOTAL HEPTA-FURANS		1.83	0.0510		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-26_Form1A_DX82_244S12_SJ881190.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-DC-hepato
Sample Collection:
23-Jun-2008 14:40

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-26
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 06:02:43	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_244 S: 12**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_244 S: 1
Concentration Units:	pg absolute	**% Moisture:**	84.3
		% Lipid:	11.4

LABELED COMPOUND	LAB FLAG [1]	SPIKE CONC.	CONC. FOUND	R(%) [2]	ION ABUND. RATIO [3]	RRT [3]
13C-2,3,7,8-TCDD		2000	1330	66.7	0.80	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1400	69.9	0.62	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1380	69.1	1.23	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1450	72.6	1.23	0.989
13C-1,2,3,4,6,7,8-HPCDD		2000	1360	68.0	1.04	1.094
13C-OCDD		4000	2490	62.2	0.90	1.178
13C-2,3,7,8-TCDF		2000	1350	67.5	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	1250	62.3	1.59	1.288
13C-2,3,4,7,8-PECDF		2000	1260	63.2	1.57	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1390	69.4	0.53	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1440	71.9	0.53	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1350	67.6	0.54	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1350	67.7	0.53	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1330	66.6	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1340	66.8	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	134	66.8		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-26_Form2_DX82_244S12_SJ881190.html; Workgroup: WG25730; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-DC-hepato
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-26
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 10:22:37	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_138 S: 6**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_138 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	84.3 11.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		3.38	0.0879	0.79	1.001

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-26_Form1A_DB83_138S6_SJ881718.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-DC-hepato

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:40
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-26
Sample Size:	25.1 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_138 S: 6** **DX82_244 S: 12**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD		0.416	0.0199	1	4.16e-01	4.16e-01	
1,2,3,7,8-PECDD		1.27	0.0518	1	1.27e+00	1.27e+00	
1,2,3,4,7,8-HXCDD		0.711	0.0797	0.1	7.11e-02	7.11e-02	
1,2,3,6,7,8-HXCDD		3.25	0.0797	0.1	3.25e-01	3.25e-01	
1,2,3,7,8,9-HXCDD		1.08	0.0797	0.1	1.08e-01	1.08e-01	
1,2,3,4,6,7,8-HPCDD		4.28	0.0446	0.01	4.28e-02	4.28e-02	
OCDD		4.14	0.134	0.0003	1.24e-03	1.24e-03	
2,3,7,8-TCDF		3.38	0.0879	0.1	3.38e-01	3.38e-01	
1,2,3,7,8-PECDF		0.328	0.0406	0.03	9.84e-03	9.84e-03	
2,3,4,7,8-PECDF		0.761	0.0406	0.3	2.28e-01	2.28e-01	
1,2,3,4,7,8-HXCDF		0.472	0.0399	0.1	4.72e-02	4.72e-02	
1,2,3,6,7,8-HXCDF		0.321	0.0399	0.1	3.21e-02	3.21e-02	
1,2,3,7,8,9-HXCDF	U		0.0399	0.1	0.00e+00	2.00e-03	
2,3,4,6,7,8-HXCDF		0.250	0.0399	0.1	2.50e-02	2.50e-02	
1,2,3,4,6,7,8-HPCDF		1.33	0.0510	0.01	1.33e-02	1.33e-02	
1,2,3,4,7,8,9-HPCDF	U		0.0510	0.01	0.00e+00	2.55e-04	
OCDF		0.271	0.0394	0.0003	8.13e-05	8.13e-05	
			TOTAL TEQ		2.93	2.93	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-26_TEQ_SJ881718.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-DC-tissue
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-27
Matrix:	TISSUE	**Sample Size:**	26.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 10:46:00	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_245 S: 4**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_245 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	80.6
		% Lipid:	0.25

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.039	0.0193	0.52	1.001
1,2,3,7,8-PECDD [3]	J	0.052	0.0501	0.65	1.000
1,2,3,4,7,8-HXCDD	U		0.0770		
1,2,3,6,7,8-HXCDD	J	0.126	0.0770	1.30	1.000
1,2,3,7,8,9-HXCDD	U		0.0770		
1,2,3,4,6,7,8-HPCDD	K J	0.186	0.0431	1.21	1.000
OCDD	K J	0.214	0.130	1.07	1.000
2,3,7,8-TCDF		0.133	0.0193	0.75	1.001
1,2,3,7,8-PECDF	U		0.0393		
2,3,4,7,8-PECDF	U		0.0393		
1,2,3,4,7,8-HXCDF	K J	0.039	0.0358	1.57	1.000
1,2,3,6,7,8-HXCDF	U		0.0358		
1,2,3,7,8,9-HXCDF	U		0.0358		
2,3,4,6,7,8-HXCDF	U		0.0358		
1,2,3,4,6,7,8-HPCDF	K J	0.078	0.0493	1.69	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0493		
OCDF	J	0.070	0.0381	0.90	1.002
TOTAL TETRA-DIOXINS		0.155	0.0193		
TOTAL PENTA-DIOXINS		0.052	0.0501		
TOTAL HEXA-DIOXINS		0.126	0.0770		
TOTAL HEPTA-DIOXINS		0.152	0.0431		
TOTAL TETRA-FURANS		0.401	0.0193		
TOTAL PENTA-FURANS		0.087	0.0393		
TOTAL HEXA-FURANS	U		0.0358		
TOTAL HEPTA-FURANS	U		0.0493		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-27_Form1A_DX82_245S4_SJ881203.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-DC-tissue
Sample Collection:
23-Jun-2008 14:40

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-27
Matrix:	TISSUE	**Sample Size:**	26.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 10:46:00	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_245 S: 4**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_245 S: 1
Concentration Units:	pg absolute	**% Moisture:**	80.6
		% Lipid:	0.25

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	908	45.4	0.82	1.015
13C-1,2,3,7,8-PECDD [4]		2000	938	46.9	0.63	1.385
13C-1,2,3,4,7,8-HXCDD		2000	848	42.4	1.25	0.987
13C-1,2,3,6,7,8-HXCDD		2000	912	45.6	1.26	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	809	40.4	1.04	1.094
13C-OCDD		4000	1520	38.0	0.90	1.178
13C-2,3,7,8-TCDF		2000	981	49.0	0.78	0.968
13C-1,2,3,7,8-PECDF		2000	861	43.1	1.60	1.288
13C-2,3,4,7,8-PECDF		2000	869	43.4	1.54	1.355
13C-1,2,3,4,7,8-HXCDF		2000	855	42.7	0.53	0.955
13C-1,2,3,6,7,8-HXCDF		2000	904	45.2	0.53	0.959
13C-1,2,3,7,8,9-HXCDF		2000	892	44.6	0.54	1.005
13C-2,3,4,6,7,8-HXCDF		2000	841	42.1	0.55	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	783	39.2	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	805	40.3	0.46	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	174	86.9		1.015

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 22-Jul-2008 13:33:43; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613DB5_L11328-27_Form2_DX82_245S4_SJ881203.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-DC-tissue
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-27
Matrix:	TISSUE	**Sample Size:**	26.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 10:58:12	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_138 S: 7**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_138 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	80.6 0.25

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.110	0.0813	0.74	1.001

(1) Where applicable, custom lab flags have been used on this report; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-27_Form1A_DB83_138S7_SJ881719.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-DC-tissue

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Sample Collection: 23-Jun-2008 14:40

Contract No.: 4406

Project No. FIDALGO BAY TISSUE INVESTIGATION

Matrix: TISSUE

Lab Sample I.D.: L11328-27

Sample Size: 26.0 g (wet)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (wet weight basis)

Sample Data Filenames: **DB83_138 S: 7**
DX82_245 S: 4

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0193	1	0.00e+00	9.65e-03	
1,2,3,7,8-PECDD		0.052	0.0501	1	5.20e-02	5.20e-02	
1,2,3,4,7,8-HXCDD	U		0.0770	0.1	0.00e+00	3.85e-03	
1,2,3,6,7,8-HXCDD		0.126	0.0770	0.1	1.26e-02	1.26e-02	
1,2,3,7,8,9-HXCDD	U		0.0770	0.1	0.00e+00	3.85e-03	
1,2,3,4,6,7,8-HPCDD	U		0.0431	0.01	0.00e+00	2.16e-04	
OCDD	U		0.130	0.0003	0.00e+00	1.95e-05	
2,3,7,8-TCDF		0.110	0.0813	0.1	1.10e-02	1.10e-02	
1,2,3,7,8-PECDF	U		0.0393	0.03	0.00e+00	5.90e-04	
2,3,4,7,8-PECDF	U		0.0393	0.3	0.00e+00	5.90e-03	
1,2,3,4,7,8-HXCDF	U		0.0358	0.1	0.00e+00	1.79e-03	
1,2,3,6,7,8-HXCDF	U		0.0358	0.1	0.00e+00	1.79e-03	
1,2,3,7,8,9-HXCDF	U		0.0358	0.1	0.00e+00	1.79e-03	
2,3,4,6,7,8-HXCDF	U		0.0358	0.1	0.00e+00	1.79e-03	
1,2,3,4,6,7,8-HPCDF	U		0.0493	0.01	0.00e+00	2.47e-04	
1,2,3,4,7,8,9-HPCDF	U		0.0493	0.01	0.00e+00	2.47e-04	
OCDF		0.070	0.0381	0.0003	2.10e-05	2.10e-05	
			TOTAL TEQ		0.0756	0.107	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: TEQ.xsl; Created: 22-Jul-2008 13:35:21; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613-TEQ_L11328-27_TEQ_SJ881719.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-RR-tissue
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-28 i
Matrix:	TISSUE	**Sample Size:**	25.4 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	18-Jul-2008 **Time:** 03:10:48	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_256 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_256 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	80.5
		% Lipid:	0.21

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.048	0.0197	0.24	1.001
1,2,3,7,8-PECDD [3]	J	0.083	0.0512	0.65	1.000
1,2,3,4,7,8-HXCDD	J	0.100	0.0787	1.09	1.000
1,2,3,6,7,8-HXCDD	K J	0.506	0.0787	1.47	1.000
1,2,3,7,8,9-HXCDD	J	0.193	0.0787	1.24	1.010
1,2,3,4,6,7,8-HPCDD		2.42	0.0441	1.04	1.000
OCDD		4.91	0.133	0.90	1.000
2,3,7,8-TCDF	J	0.058	0.0233	0.86	1.001
1,2,3,7,8-PECDF	U		0.0402		
2,3,4,7,8-PECDF	J	0.047	0.0402	1.34	1.000
1,2,3,4,7,8-HXCDF	K J	0.052	0.0366	0.99	1.000
1,2,3,6,7,8-HXCDF	U		0.0366		
1,2,3,7,8,9-HXCDF	U		0.0366		
2,3,4,6,7,8-HXCDF	U		0.0366		
1,2,3,4,6,7,8-HPCDF	J	0.197	0.0504	1.18	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0504		
OCDF	U		0.0390		
TOTAL TETRA-DIOXINS		0.170	0.0197		
TOTAL PENTA-DIOXINS		0.083	0.0512		
TOTAL HEXA-DIOXINS		0.959	0.0787		
TOTAL HEPTA-DIOXINS		5.51	0.0441		
TOTAL TETRA-FURANS		0.320	0.0233		
TOTAL PENTA-FURANS		0.152	0.0402		
TOTAL HEXA-FURANS		0.305	0.0366		
TOTAL HEPTA-FURANS		0.197	0.0504		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-28_Form1A_DX82_256S7_SJ881630.html; Workgroup: WG25730; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-RR-tissue
Sample Collection:
23-Jun-2008 14:40

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-28 i
Matrix:	TISSUE	**Sample Size:**	25.4 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	18-Jul-2008 **Time:** 03:10:48	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_256 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_256 S: 1
Concentration Units:	pg absolute	**% Moisture:**	80.5
		% Lipid:	0.21

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	741	37.0	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	752	37.6	0.63	1.387
13C-1,2,3,4,7,8-HXCDD	V	2000	627	31.4	1.32	0.987
13C-1,2,3,6,7,8-HXCDD		2000	658	32.9	1.19	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	602	30.1	1.03	1.094
13C-OCDD		4000	1030	25.8	0.89	1.178
13C-2,3,7,8-TCDF		2000	759	37.9	0.78	0.968
13C-1,2,3,7,8-PECDF		2000	656	32.8	1.53	1.289
13C-2,3,4,7,8-PECDF		2000	691	34.5	1.56	1.357
13C-1,2,3,4,7,8-HXCDF		2000	609	30.5	0.52	0.954
13C-1,2,3,6,7,8-HXCDF		2000	649	32.5	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		2000	677	33.9	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		2000	622	31.1	0.52	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	582	29.1	0.46	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	595	29.8	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	170	85.2		1.016

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-RR-tissue
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-28
Matrix:	TISSUE	**Sample Size:**	25.4 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 11:33:51	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_138 S: 8**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_138 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	80.5 0.21

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	U		0.0916		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-28_Form1A_DB83_138S8_SJ881720.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-RR-tissue

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:40
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-28
Sample Size:	25.4 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_138 S: 8** **DX82_256 S: 7**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0197	1	0.00e+00	9.85e-03	
1,2,3,7,8-PECDD		0.083	0.0512	1	8.30e-02	8.30e-02	
1,2,3,4,7,8-HXCDD		0.100	0.0787	0.1	1.00e-02	1.00e-02	
1,2,3,6,7,8-HXCDD	U		0.0787	0.1	0.00e+00	3.94e-03	
1,2,3,7,8,9-HXCDD		0.193	0.0787	0.1	1.93e-02	1.93e-02	
1,2,3,4,6,7,8-HPCDD		2.42	0.0441	0.01	2.42e-02	2.42e-02	
OCDD		4.91	0.133	0.0003	1.47e-03	1.47e-03	
2,3,7,8-TCDF	U		0.0916	0.1	0.00e+00	4.58e-03	
1,2,3,7,8-PECDF	U		0.0402	0.03	0.00e+00	6.03e-04	
2,3,4,7,8-PECDF		0.047	0.0402	0.3	1.41e-02	1.41e-02	
1,2,3,4,7,8-HXCDF	U		0.0366	0.1	0.00e+00	1.83e-03	
1,2,3,6,7,8-HXCDF	U		0.0366	0.1	0.00e+00	1.83e-03	
1,2,3,7,8,9-HXCDF	U		0.0366	0.1	0.00e+00	1.83e-03	
2,3,4,6,7,8-HXCDF	U		0.0366	0.1	0.00e+00	1.83e-03	
1,2,3,4,6,7,8-HPCDF		0.197	0.0504	0.01	1.97e-03	1.97e-03	
1,2,3,4,7,8,9-HPCDF	U		0.0504	0.01	0.00e+00	2.52e-04	
OCDF	U		0.0390	0.0003	0.00e+00	5.85e-06	
			TOTAL TEQ		0.154	0.181	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-28_TEQ_SJ881720.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-RR-hepato
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-29
Matrix:	TISSUE	**Sample Size:**	14.3 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 12:34:46	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_245 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_245 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	76.7
		% Lipid:	13.6

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.221	0.0348	0.66	1.001
1,2,3,7,8-PECDD [3]		1.69	0.0904	0.64	1.000
1,2,3,4,7,8-HXCDD		2.55	0.139	1.16	1.000
1,2,3,6,7,8-HXCDD		17.4	0.139	1.24	1.000
1,2,3,7,8,9-HXCDD		5.03	0.139	1.29	1.010
1,2,3,4,6,7,8-HPCDD		132	0.0779	1.07	1.000
OCDD		324	0.234	0.90	1.000
2,3,7,8-TCDF		1.14	0.0459	0.77	1.001
1,2,3,7,8-PECDF	J	0.461	0.0709	1.68	1.000
2,3,4,7,8-PECDF	J	0.763	0.0709	1.39	1.000
1,2,3,4,7,8-HXCDF		1.49	0.0717	1.28	1.000
1,2,3,6,7,8-HXCDF	J	0.711	0.0717	1.32	1.000
1,2,3,7,8,9-HXCDF	U		0.0717		
2,3,4,6,7,8-HXCDF		1.12	0.0717	1.19	1.000
1,2,3,4,6,7,8-HPCDF		8.38	0.0890	1.00	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0890		
OCDF	J	0.407	0.0688	0.79	1.002
TOTAL TETRA-DIOXINS		3.31	0.0348		
TOTAL PENTA-DIOXINS		4.60	0.0904		
TOTAL HEXA-DIOXINS		54.7	0.139		
TOTAL HEPTA-DIOXINS		287	0.0779		
TOTAL TETRA-FURANS		6.21	0.0459		
TOTAL PENTA-FURANS		6.26	0.0709		
TOTAL HEXA-FURANS		15.5	0.0717		
TOTAL HEPTA-FURANS		8.61	0.0890		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 22-Jul-2008 13:33:43; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613DB5_L11328-29_Form1A_DX82_245S6_SJ881205.html; Workgroup: WG25730; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-RR-hepato
Sample Collection:
23-Jun-2008 14:40

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-29
Matrix:	TISSUE	**Sample Size:**	14.3 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 12:34:46	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_245 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_245 S: 1
Concentration Units:	pg absolute	**% Moisture:**	76.7
		% Lipid:	13.6

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1290	64.5	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1390	69.3	0.62	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1300	65.2	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1350	67.6	1.23	0.989
13C-1,2,3,4,6,7,8-HPCDD		2000	1260	63.1	1.04	1.094
13C-OCDD		4000	2380	59.5	0.91	1.178
13C-2,3,7,8-TCDF		2000	1310	65.3	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	1240	61.9	1.57	1.288
13C-2,3,4,7,8-PECDF		2000	1250	62.3	1.58	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1290	64.5	0.54	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1290	64.7	0.54	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1340	67.1	0.54	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1310	65.3	0.54	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1270	63.7	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1240	61.9	0.46	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	127	63.5		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-29_Form2_DX82_245S6_SJ881205.html; Workgroup: WG25730; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-RR-hepato
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-29
Matrix:	TISSUE	**Sample Size:**	14.3 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 12:09:30	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_138 S: 9**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_138 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	76.7 13.6

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		0.846	0.102	0.75	1.000

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-29_Form1A_DB83_138S9_SJ881721.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-RR-hepato

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:40
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-29
Sample Size:	14.3 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_138 S: 9** **DX82_245 S: 6**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD		0.221	0.0348	1	2.21e-01	2.21e-01	
1,2,3,7,8-PECDD		1.69	0.0904	1	1.69e+00	1.69e+00	
1,2,3,4,7,8-HXCDD		2.55	0.139	0.1	2.55e-01	2.55e-01	
1,2,3,6,7,8-HXCDD		17.4	0.139	0.1	1.74e+00	1.74e+00	
1,2,3,7,8,9-HXCDD		5.03	0.139	0.1	5.03e-01	5.03e-01	
1,2,3,4,6,7,8-HPCDD		132	0.0779	0.01	1.32e+00	1.32e+00	
OCDD		324	0.234	0.0003	9.72e-02	9.72e-02	
2,3,7,8-TCDF		0.846	0.102	0.1	8.46e-02	8.46e-02	
1,2,3,7,8-PECDF		0.461	0.0709	0.03	1.38e-02	1.38e-02	
2,3,4,7,8-PECDF		0.763	0.0709	0.3	2.29e-01	2.29e-01	
1,2,3,4,7,8-HXCDF		1.49	0.0717	0.1	1.49e-01	1.49e-01	
1,2,3,6,7,8-HXCDF		0.711	0.0717	0.1	7.11e-02	7.11e-02	
1,2,3,7,8,9-HXCDF	U		0.0717	0.1	0.00e+00	3.59e-03	
2,3,4,6,7,8-HXCDF		1.12	0.0717	0.1	1.12e-01	1.12e-01	
1,2,3,4,6,7,8-HPCDF		8.38	0.0890	0.01	8.38e-02	8.38e-02	
1,2,3,4,7,8,9-HPCDF	U		0.0890	0.01	0.00e+00	4.45e-04	
OCDF		0.407	0.0688	0.0003	1.22e-04	1.22e-04	
			TOTAL TEQ		6.57	6.57	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-29_TEQ_SJ881721.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-RR-other
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-30
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 13:29:09	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_245 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_245 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	84.3
		% Lipid:	1.08

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.074	0.0198	0.71	1.001
1,2,3,7,8-PECDD [3]	J	0.430	0.0515	0.67	1.001
1,2,3,4,7,8-HXCDD		0.699	0.0793	1.23	1.000
1,2,3,6,7,8-HXCDD		3.91	0.0793	1.23	1.000
1,2,3,7,8,9-HXCDD		0.970	0.0793	1.20	1.010
1,2,3,4,6,7,8-HPCDD		26.7	0.0444	1.07	1.000
OCDD		169	0.134	0.89	1.000
2,3,7,8-TCDF		0.208	0.0307	0.75	1.001
1,2,3,7,8-PECDF	J	0.092	0.0404	1.43	1.000
2,3,4,7,8-PECDF	J	0.128	0.0404	1.56	1.000
1,2,3,4,7,8-HXCDF	J	0.288	0.0369	1.21	1.000
1,2,3,6,7,8-HXCDF	J	0.168	0.0369	1.17	1.000
1,2,3,7,8,9-HXCDF	U		0.0369		
2,3,4,6,7,8-HXCDF	J	0.259	0.0369	1.23	1.000
1,2,3,4,6,7,8-HPCDF		2.28	0.0507	1.02	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0507		
OCDF	J	0.202	0.0393	0.99	1.002
TOTAL TETRA-DIOXINS		0.962	0.0198		
TOTAL PENTA-DIOXINS		0.548	0.0515		
TOTAL HEXA-DIOXINS		9.07	0.0793		
TOTAL HEPTA-DIOXINS		53.8	0.0444		
TOTAL TETRA-FURANS		1.84	0.0307		
TOTAL PENTA-FURANS		1.19	0.0404		
TOTAL HEXA-FURANS		3.05	0.0369		
TOTAL HEPTA-FURANS		2.39	0.0507		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-30_Form1A_DX82_245S7_SJ881206.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-RR-other
Sample Collection:
23-Jun-2008 14:40

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-30
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 13:29:09	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_245 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_245 S: 1
Concentration Units:	pg absolute	**% Moisture:**	84.3
		% Lipid:	1.08

LABELED COMPOUND	LAB FLAG [1]	SPIKE CONC.	CONC. FOUND	R(%) [2]	ION ABUND. RATIO [3]	RRT [3]
13C-2,3,7,8-TCDD		2000	1570	78.5	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1580	79.1	0.63	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1640	81.9	1.24	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1660	82.8	1.22	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1550	77.3	1.05	1.094
13C-OCDD		4000	2910	72.8	0.90	1.178
13C-2,3,7,8-TCDF		2000	1610	80.6	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	1500	75.1	1.57	1.288
13C-2,3,4,7,8-PECDF		2000	1500	74.8	1.56	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1650	82.3	0.52	0.955
13C-1,2,3,6,7,8-HXCDF		2000	1660	83.0	0.53	0.959
13C-1,2,3,7,8,9-HXCDF		2000	1630	81.7	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1580	78.8	0.53	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1540	77.0	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1530	76.6	0.46	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	152	75.8		1.015

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-30_Form2_DX82_245S7_SJ881206.html; Workgroup: WG25730; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-RR-other
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-30
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 12:45:05	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_138 S: 10**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_138 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	84.3 1.08

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		0.145	0.0366	0.66	0.999

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-30_Form1A_DB83_138S10_SJ881722.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-RR-other

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:40
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-30
Sample Size:	25.2 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_138 S: 10** **DX82_245 S: 7**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD		0.074	0.0198	1	7.40e-02	7.40e-02	
1,2,3,7,8-PECDD		0.430	0.0515	1	4.30e-01	4.30e-01	
1,2,3,4,7,8-HXCDD		0.699	0.0793	0.1	6.99e-02	6.99e-02	
1,2,3,6,7,8-HXCDD		3.91	0.0793	0.1	3.91e-01	3.91e-01	
1,2,3,7,8,9-HXCDD		0.970	0.0793	0.1	9.70e-02	9.70e-02	
1,2,3,4,6,7,8-HPCDD		26.7	0.0444	0.01	2.67e-01	2.67e-01	
OCDD		169	0.134	0.0003	5.07e-02	5.07e-02	
2,3,7,8-TCDF		0.145	0.0366	0.1	1.45e-02	1.45e-02	
1,2,3,7,8-PECDF		0.092	0.0404	0.03	2.76e-03	2.76e-03	
2,3,4,7,8-PECDF		0.128	0.0404	0.3	3.84e-02	3.84e-02	
1,2,3,4,7,8-HXCDF		0.288	0.0369	0.1	2.88e-02	2.88e-02	
1,2,3,6,7,8-HXCDF		0.168	0.0369	0.1	1.68e-02	1.68e-02	
1,2,3,7,8,9-HXCDF	U		0.0369	0.1	0.00e+00	1.85e-03	
2,3,4,6,7,8-HXCDF		0.259	0.0369	0.1	2.59e-02	2.59e-02	
1,2,3,4,6,7,8-HPCDF		2.28	0.0507	0.01	2.28e-02	2.28e-02	
1,2,3,4,7,8,9-HPCDF	U		0.0507	0.01	0.00e+00	2.54e-04	
OCDF		0.202	0.0393	0.0003	6.06e-05	6.06e-05	
			TOTAL TEQ		1.53	1.53	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-30_TEQ_SJ881722.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R2-RR-other
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-32
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 15:17:54	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_245 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_245 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	84.0
		% Lipid:	1.26

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.111	0.0199	0.75	1.000
1,2,3,7,8-PECDD [3]	J	0.213	0.0517	0.59	1.001
1,2,3,4,7,8-HXCDD	J	0.276	0.0795	1.13	1.000
1,2,3,6,7,8-HXCDD		1.67	0.0795	1.16	1.000
1,2,3,7,8,9-HXCDD	J	0.515	0.0795	1.41	1.010
1,2,3,4,6,7,8-HPCDD		10.7	0.0445	1.03	1.000
OCDD		30.6	0.134	0.87	1.000
2,3,7,8-TCDF		0.418	0.0542	0.78	1.001
1,2,3,7,8-PECDF	J	0.075	0.0405	1.54	1.000
2,3,4,7,8-PECDF	J	0.148	0.0405	1.69	1.001
1,2,3,4,7,8-HXCDF	J	0.211	0.0370	1.12	1.000
1,2,3,6,7,8-HXCDF	J	0.073	0.0370	1.18	1.000
1,2,3,7,8,9-HXCDF	U		0.0370		
2,3,4,6,7,8-HXCDF	J	0.088	0.0370	1.34	1.000
1,2,3,4,6,7,8-HPCDF	J	0.575	0.0509	1.07	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0509		
OCDF	J	0.357	0.0394	0.90	1.002
TOTAL TETRA-DIOXINS		1.24	0.0199		
TOTAL PENTA-DIOXINS		0.829	0.0517		
TOTAL HEXA-DIOXINS		4.20	0.0795		
TOTAL HEPTA-DIOXINS		19.5	0.0445		
TOTAL TETRA-FURANS		3.11	0.0542		
TOTAL PENTA-FURANS		1.30	0.0405		
TOTAL HEXA-FURANS		1.19	0.0370		
TOTAL HEPTA-FURANS		0.874	0.0509		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-32_Form1A_DX82_245S9_SJ881208.html; Workgroup: WG25730; Design ID: 883]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R2-RR-other
Sample Collection:
23-Jun-2008 14:40

Form 2

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-32
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 15:17:54	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_245 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_245 S: 1
Concentration Units:	pg absolute	**% Moisture:**	84.0
		% Lipid:	1.26

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1540	77.2	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1660	83.1	0.62	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1600	79.8	1.24	0.986
13C-1,2,3,6,7,8-HXCDD		2000	1650	82.7	1.22	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1490	74.4	1.02	1.094
13C-OCDD		4000	2670	66.7	0.90	1.178
13C-2,3,7,8-TCDF		2000	1640	81.9	0.78	0.968
13C-1,2,3,7,8-PECDF		2000	1460	73.2	1.57	1.288
13C-2,3,4,7,8-PECDF		2000	1500	74.8	1.56	1.354
13C-1,2,3,4,7,8-HXCDF		2000	1620	80.8	0.53	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1660	82.9	0.53	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1600	80.1	0.54	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1600	80.2	0.53	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1480	74.2	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1490	74.5	0.46	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	174	86.9		1.015

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-32_Form2_DX82_245S9_SJ881208.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R2-RR-other
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-32
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 15:07:35	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_138 S: 14**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_138 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	84.0 1.26

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	K	0.288	0.0449	0.61	1.002

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-32_Form1A_DB83_138S14_SJ881724.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R2-RR-other

PCDD/PCDF ANALYSIS TEQ DATA REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Sample Collection:	23-Jun-2008 14:40
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-32
Sample Size:	25.2 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_138 S: 14** **DX82_245 S: 9**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD		0.111	0.0199	1	1.11e-01	1.11e-01	
1,2,3,7,8-PECDD		0.213	0.0517	1	2.13e-01	2.13e-01	
1,2,3,4,7,8-HXCDD		0.276	0.0795	0.1	2.76e-02	2.76e-02	
1,2,3,6,7,8-HXCDD		1.67	0.0795	0.1	1.67e-01	1.67e-01	
1,2,3,7,8,9-HXCDD		0.515	0.0795	0.1	5.15e-02	5.15e-02	
1,2,3,4,6,7,8-HPCDD		10.7	0.0445	0.01	1.07e-01	1.07e-01	
OCDD		30.6	0.134	0.0003	9.18e-03	9.18e-03	
2,3,7,8-TCDF	U		0.0449	0.1	0.00e+00	2.25e-03	
1,2,3,7,8-PECDF		0.075	0.0405	0.03	2.25e-03	2.25e-03	
2,3,4,7,8-PECDF		0.148	0.0405	0.3	4.44e-02	4.44e-02	
1,2,3,4,7,8-HXCDF		0.211	0.0370	0.1	2.11e-02	2.11e-02	
1,2,3,6,7,8-HXCDF		0.073	0.0370	0.1	7.30e-03	7.30e-03	
1,2,3,7,8,9-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
2,3,4,6,7,8-HXCDF		0.088	0.0370	0.1	8.80e-03	8.80e-03	
1,2,3,4,6,7,8-HPCDF		0.575	0.0509	0.01	5.75e-03	5.75e-03	
1,2,3,4,7,8,9-HPCDF	U		0.0509	0.01	0.00e+00	2.55e-04	
OCDF		0.357	0.0394	0.0003	1.07e-04	1.07e-04	
			TOTAL TEQ		0.776	0.780	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-32_TEQ_SJ881724.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R2-RR-tissue
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-33
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 01:30:43	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_244 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_244 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	82.2
		% Lipid:	0.042

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	U		0.0199		
1,2,3,7,8-PECDD [3]	U		0.0518		
1,2,3,4,7,8-HXCDD	U		0.0797		
1,2,3,6,7,8-HXCDD	J	0.112	0.0797	1.31	1.000
1,2,3,7,8,9-HXCDD	U		0.0797		
1,2,3,4,6,7,8-HPCDD	J	0.282	0.0446	1.13	1.000
OCDD	J	0.338	0.134	0.82	1.000
2,3,7,8-TCDF	J	0.049	0.0199	0.82	1.001
1,2,3,7,8-PECDF	U		0.0406		
2,3,4,7,8-PECDF	U		0.0406		
1,2,3,4,7,8-HXCDF	U		0.0371		
1,2,3,6,7,8-HXCDF	U		0.0371		
1,2,3,7,8,9-HXCDF	U		0.0371		
2,3,4,6,7,8-HXCDF	U		0.0371		
1,2,3,4,6,7,8-HPCDF	U		0.0510		
1,2,3,4,7,8,9-HPCDF	U		0.0510		
OCDF	U		0.0394		
TOTAL TETRA-DIOXINS	U		0.0199		
TOTAL PENTA-DIOXINS	U		0.0518		
TOTAL HEXA-DIOXINS		0.113	0.0797		
TOTAL HEPTA-DIOXINS		0.505	0.0446		
TOTAL TETRA-FURANS		0.120	0.0199		
TOTAL PENTA-FURANS	U		0.0406		
TOTAL HEXA-FURANS	U		0.0371		
TOTAL HEPTA-FURANS	U		0.0510		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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