

Gilsenan, Michael

From: Theodorellys, Penny
Sent: Wednesday, November 06, 2002 11:43 AM
To: Radhakrishnan, Krish
Cc: Gilsenan, Michael
Subject: FW: Dioxin results

FYI

-----Original Message-----

From: Benjamin M. Sallemi [<mailto:sallemi15@atc-enviro.com>] <[mailto:\[mailto:sallemi15@atc-enviro.com\]](mailto:[mailto:sallemi15@atc-enviro.com])>
Sent: Wednesday, November 06, 2002 9:23 AM
To: nace.charles@epa.gov
Cc: Penny Theodorellys
Subject: FW: Dioxin results



R02090951 revised
 TEQ Report.xls...



R02090971A
 revised TEQ Report..



R02090971B
 revised TEQ Report..

Sent at the request of Penny Theodorellys.

-----Original Message-----

From: Usbeck, Fred [<mailto:FUsbeck@contactpsc.com>] <[mailto:\[mailto:FUsbeck@contactpsc.com\]](mailto:[mailto:FUsbeck@contactpsc.com])>
Sent: Friday, November 01, 2002 2:09 PM
To: sallemi15@atc-enviro.com
Subject: Dioxin results

Ben -

Attached are three files containing about 1/3 of the "pre" results recalcultated according to the TEQ specifications you requested. As I get more this afternoon I will email them to you. Note that the "-" on two of the reports indicates "less than" not negative values. Thanks! Fred
 <<R02090951 revised TEQ Report.xls>> <<R02090971A revised TEQ Report.xls>>

<<R02090971B revised TEQ Report.xls>>

Fred Usbeck, CIH

PSC Analytical Services
4418 Pottsville Pike
Reading, PA 19605
fusbeck@contactpsc.com
(610) 921-8833 ext. 224

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Component	<i>Client ID:</i>		Method	Blank	Blank	R02090951	R02090951
	<i>Lab No.:</i>		Blank10/04	Spike#1	Spike#1	01A	02A
	<i>Date Sampled:</i>		060266 02	060266 02	%Recoveries	060267 02	060268 02
			12-Sep-2002	12-Sep-2002		12-Sep-2002	12-Sep-2002
	MDL	Units					
Total Tetrachlorodibenzofurans		pg	<3.9	1100	-	<2.0	130
Total Pentachlorodibenzofurans		"	17	6400	-	<2.2	55
Total Hexachlorodibenzofurans		"	52	10000	-	<1.6	45
Total Heptachlorodibenzofurans		"	42	5100	-	<2.1	46
Octachlorodibenzofuran		"	67	4400	-	3.5	33
Total Tetrachlorodibenzo-p-dioxins		"	4.3	1100	-	4.3	110
Total Pentachlorodibenzo-p-dioxins		"	12	2700	-	<2.9	16
Total Hexachlorodibenzo-p-dioxins		"	35	7900	-	<8.9	<35
Total Heptachlorodibenzo-p-dioxins		"	26	2600	-	3.9	88
Octachlorodibenzo-p-dioxin		"	65	4900	-	16	390
Internal Recoveries		%					
2,3,7,8-T4CDF-13C12			65	70	70	82	72
2,3,7,8-T4CDD-13C12			74	84	84	79	75
1,2,3,7,8-P5CDF-13C12			43	70	70	88	61
1,2,3,7,8-P5CDD-13C12			48	76	76	105	67
1,2,3,4,7,8-H6CDF-13C12			72	85	85	86	73
1,2,3,6,7,8-H6CDD-13C12			74	88	88	91	76
1,2,3,4,6,7,8-H7CDF-13C12			82	86	86	83	71
1,2,3,4,6,7,8-H7CDD-13C12			75	89	89	81	68
OCDD-13C12			84	108	108	94	75
2,3,7,8-Cl4-Dibenzofuran (DB5)		pg	<3.9	1100	105	<2.0	20
2,3,7,8-Cl4-Dibenzo-p-dioxin		"	4.3	1100	109	<2.6	<2.5
1,2,3,7,8-Cl5-Dibenzofuran		"	<9.6	2900	114	<2.1	4.0
2,3,4,7,8-Cl5-Dibenzofuran		"	17	3500	139	<2.3	<5.0
1,2,3,7,8-Cl5-Dibenzo-p-dioxin		"	12	2700	110	<2.9	<3.6
1,2,3,4,7,8-Cl6-Dibenzofuran		"	11	2400	97	<1.4	8.2
1,2,3,6,7,8-Cl6-Dibenzofuran		"	14	2600	102	<1.4	4.5
2,3,4,6,7,8-Cl6-Dibenzofuran		"	<14	2500	100	<1.7	10
1,2,3,7,8,9-Cl6-Dibenzofuran		"	29	2500	98	<2.0	<2.5
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin		"	<9.1	2700	108	<4.6	<2.4
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin		"	14	2600	105	<4.5	<3.4
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin		"	22	2600	102	<4.4	<2.3
1,2,3,4,6,7,8-Cl7-Dibenzofuran		"	18	2600	104	<1.8	21
1,2,3,4,7,8,9-Cl7-Dibenzofuran		"	25	2400	97	<2.5	<3.1
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin		"	26	2600	103	3.9	48
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran		"	67	4400	87	3.5	33
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin		"	65	4900	99	16	390
2,3,7,8-TCDF (DB225)		pg	-	-	-	-	13
Internal Recoveries		%					
2,3,7,8-TCDF-13C12			-	-	-	-	88
TEQ based on Nato Factors		pg	26.0			3.8	8.7

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			R02090951	R02090951	R02090951	R02090951	R02090951
Client ID:			03A	04A	05A	06A	07A
Lab No.:			060269 02	060270 02	060271 02	060272 02	060273 02
Date Sampled:			12-Sep-2002	12-Sep-2002	12-Sep-2002	12-Sep-2002	12-Sep-2002
Component	MDL	Units					
Total Tetrachlorodibenzofurans	pg		27	<1.9	<2.0	5.8	<1.7
Total Pentachlorodibenzofurans	"		<8.8	<1.9	<3.4	<1.5	<1.6
Total Hexachlorodibenzofurans	"		21	<1.5	<1.2	2.5	<1.1
Total Heptachlorodibenzofurans	"		57	<1.9	<1.8	11	<2.1
Octachlorodibenzofuran	"		53	<2.7	<2.2	9.6	4.2
Total Tetrachlorodibenzo-p-dioxins	"		56	<3.7	<3.4	20	<1.3
Total Pentachlorodibenzo-p-dioxins	"		5.1	<3.4	<5.8	<3.4	<2.9
Total Hexachlorodibenzo-p-dioxins	"		2.9	<8.0	<11	1.7	<3.7
Total Heptachlorodibenzo-p-dioxins	"		62	<3.3	7.0	9.8	<2.0
Octachlorodibenzo-p-dioxin	"		320	16	13	68	8.6
Internal Recoveries	%						
2,3,7,8-T4CDF-13C12			68	65	81	72	75
2,3,7,8-T4CDD-13C12			76	73	85	85	92
1,2,3,7,8-P5CDF-13C12			76	60	86	67	83
1,2,3,7,8-P5CDD-13C12			93	67	96	76	91
1,2,3,4,7,8-H6CDF-13C12			79	79	96	86	96
1,2,3,6,7,8-H6CDD-13C12			80	77	94	90	95
1,2,3,4,6,7,8-H7CDF-13C12			78	85	97	92	97
1,2,3,4,6,7,8-H7CDD-13C12			79	82	91	93	97
OCDD-13C12			91	100	115	104	112
2,3,7,8-Cl4-Dibenzofuran (DB5)	pg		11	<1.9	<2.0	4.0	<1.7
2,3,7,8-Cl4-Dibenzo-p-dioxin	"		<3.7	<2.7	<2.5	<1.3	<1.3
1,2,3,7,8-Cl5-Dibenzofuran	"		<6.5	<1.8	<3.2	<1.5	<1.5
2,3,4,7,8-Cl5-Dibenzofuran	"		<7.1	<1.9	<3.5	<1.6	<1.6
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	"		<4.2	<3.4	<3.0	<2.8	<2.9
1,2,3,4,7,8-Cl6-Dibenzofuran	"		5.2	<1.3	<1.1	<0.92	<0.97
1,2,3,6,7,8-Cl6-Dibenzofuran	"		3.0	<1.4	<1.1	<0.94	<0.99
2,3,4,6,7,8-Cl6-Dibenzofuran	"		<2.7	<1.6	<1.3	<1.1	<1.2
1,2,3,7,8,9-Cl6-Dibenzofuran	"		<3.3	<2.0	<1.6	<1.4	<1.4
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	"		<2.6	<3.2	<3.3	<1.2	<1.6
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	"		<2.6	<3.1	<3.3	<1.2	<1.6
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	"		<2.5	<3.1	<3.2	<1.2	<1.6
1,2,3,4,6,7,8-Cl7-Dibenzofuran	"		33	<1.6	<1.5	5.0	<3.2
1,2,3,4,7,8,9-Cl7-Dibenzofuran	"		<2.8	<2.3	<2.2	<2.2	<4.5
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	"		35	<3.3	4.7	9.8	<2.7
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	"		53	<2.7	<2.2	9.6	4.2
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	"		320	16	13	68	8.6
2,3,7,8-TCDF (DB225)	pg		<6.5	-	-	<5.7	<3.1
Internal Recoveries	%						
2,3,7,8-TCDF-13C12			81	-	-	96	92
TEQ based on Nato Factors	pg		7.7	3.7	3.9	2.7	2.4

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Component			R02090951	R02090951	R02090951	R02090951	R02090951
	<i>Client ID:</i>		08A	09A	10A	11A	12A
	<i>Lab No.:</i>		060274 02	060275 02	060276 02	060277 02	060278 02
	<i>Date Sampled:</i>		12-Sep-2002	12-Sep-2002	12-Sep-2002	12-Sep-2002	12-Sep-2002
	MDL	Units					
Total Tetrachlorodibenzofurans		pg	<1.7	4.8	970	180	170
Total Pentachlorodibenzofurans		"	<1.7	<9.5	450	110	78
Total Hexachlorodibenzofurans		"	1.8	<4.1	250	45	45
Total Heptachlorodibenzofurans		"	<3.8	<6.3	35	11	11
Octachlorodibenzofuran		"	<2.5	<5.3	58	12	16
Total Tetrachlorodibenzo-p-dioxins		"	<2.0	10	1700	230	170
Total Pentachlorodibenzo-p-dioxins		"	<2.6	<5.9	290	130	56
Total Hexachlorodibenzo-p-dioxins		"	1.9	<16	260	14	17
Total Heptachlorodibenzo-p-dioxins		"	4.2	7.7	190	90	80
Octachlorodibenzo-p-dioxin		"	12	46	730	350	320
Internal Recoveries		%					
2,3,7,8-T4CDF-13C12			71	81	93	87	92
2,3,7,8-T4CDD-13C12			83	76	80	80	85
1,2,3,7,8-P5CDF-13C12			70	74	88	82	84
1,2,3,7,8-P5CDD-13C12			79	79	95	88	87
1,2,3,4,7,8-H6CDF-13C12			90	79	95	90	85
1,2,3,6,7,8-H6CDD-13C12			94	82	93	93	88
1,2,3,4,6,7,8-H7CDF-13C12			92	77	85	86	80
1,2,3,4,6,7,8-H7CDD-13C12			97	78	88	91	85
OCDD-13C12			114	68	79	86	77
2,3,7,8-Cl4-Dibenzofuran (DB5)		pg	<1.7	<4.8	140	28	21
2,3,7,8-Cl4-Dibenzo-p-dioxin		"	<2.0	<5.9	<10	<3.4	<3.3
1,2,3,7,8-Cl5-Dibenzofuran		"	<1.6	<9.2	<12	<2.2	<6.1
2,3,4,7,8-Cl5-Dibenzofuran		"	<1.8	<9.8	31	13	8.0
1,2,3,7,8-Cl5-Dibenzo-p-dioxin		"	<2.6	<5.9	<4.6	<3.5	<3.9
1,2,3,4,7,8-Cl6-Dibenzofuran		"	1.6	<4.1	50	15	11
1,2,3,6,7,8-Cl6-Dibenzofuran		"	<0.86	<3.4	19	<7.0	<5.3
2,3,4,6,7,8-Cl6-Dibenzofuran		"	<1.0	<4.4	22	<7.2	7.8
1,2,3,7,8,9-Cl6-Dibenzofuran		"	<1.2	<4.8	<8.0	<3.7	<4.3
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin		"	<1.4	<20	<3.5	<4.0	<6.2
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin		"	<1.4	<14	9.7	4.4	<4.4
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin		"	<1.3	<15	10	<5.3	<4.8
1,2,3,4,6,7,8-Cl7-Dibenzofuran		"	<3.3	<5.5	<68	<24	<23
1,2,3,4,7,8,9-Cl7-Dibenzofuran		"	<4.6	<7.4	19	<8.5	<5.2
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin		"	4.2	7.7	100	47	40
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran		"	<2.5	<5.3	58	12	16
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin		"	12	46	730	350	320
2,3,7,8-TCDF (DB225)		pg	<3.7	<4.8	37	<9.8	<6.7
Internal Recoveries		%					
2,3,7,8-TCDF-13C12			92	81	87	86	93
TEQ based on Nato Factors		pg	2.8	11.2	44.6	13.9	11.1

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Component	MDL	Units	Client ID:	R02090951	R02090951	R02090951	R02090951	R02090951
			Lab No.:	13A	14A	15A	16A	17A
			Date Sampled:	060279 02	060280 02	060281 02	060282 02	060283 02
				12-Sep-2002	12-Sep-2002	12-Sep-2002	12-Sep-2002	12-Sep-2002
Total Tetrachlorodibenzofurans	pg			<2.0	140	81	120	65
Total Pentachlorodibenzofurans	"			<2.7	95	64	250	19
Total Hexachlorodibenzofurans	"			<2.6	71	32	83	8.5
Total Heptachlorodibenzofurans	"			<3.4	<27	16	21	<8.9
Octachlorodibenzofuran	"			<5.1	22	18	31	7.9
Total Tetrachlorodibenzo-p-dioxins	"			6.6	190	130	670	94
Total Pentachlorodibenzo-p-dioxins	"			<4.6	160	80	210	17
Total Hexachlorodibenzo-p-dioxins	"			<13	120	47	92	18
Total Heptachlorodibenzo-p-dioxins	"			5.0	77	58	110	12
Octachlorodibenzo-p-dioxin	"			13	240	200	440	100
Internal Recoveries	%							
2,3,7,8-T4CDF-13C12				86	94	78	84	79
2,3,7,8-T4CDD-13C12				81	88	86	91	83
1,2,3,7,8-P5CDF-13C12				79	85	77	83	84
1,2,3,7,8-P5CDD-13C12				85	93	80	92	88
1,2,3,4,7,8-H6CDF-13C12				86	88	81	87	79
1,2,3,6,7,8-H6CDD-13C12				87	91	85	97	85
1,2,3,4,6,7,8-H7CDF-13C12				78	82	73	78	70
1,2,3,4,6,7,8-H7CDD-13C12				87	90	82	86	80
OCDD-13C12				77	80	88	90	82
2,3,7,8-Cl4-Dibenzofuran (DB5)	pg			<2.0	25	<17	<49	<13
2,3,7,8-Cl4-Dibenzo-p-dioxin	"			<3.2	<2.7	<2.4	<3.8	<2.0
1,2,3,7,8-Cl5-Dibenzofuran	"			<2.6	<5.7	6.3	<9.1	<3.5
2,3,4,7,8-Cl5-Dibenzofuran	"			<2.8	<13	6.5	16	<3.7
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	"			<4.6	<2.3	<2.3	<3.0	<2.6
1,2,3,4,7,8-Cl6-Dibenzofuran	"			<2.5	17	9.4	23	3.8
1,2,3,6,7,8-Cl6-Dibenzofuran	"			<2.1	7.8	<4.1	8.3	<2.4
2,3,4,6,7,8-Cl6-Dibenzofuran	"			<2.8	6.7	<3.5	<9.2	<2.9
1,2,3,7,8,9-Cl6-Dibenzofuran	"			<3.0	<5.8	<3.7	<3.7	<3.1
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	"			<16	<6.3	<3.2	<3.0	<3.0
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	"			<12	<4.5	<2.9	4.8	<2.7
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	"			<13	<5.6	<2.6	5.3	<2.5
1,2,3,4,6,7,8-Cl7-Dibenzofuran	"			<2.9	<24	<21	<39	<7.9
1,2,3,4,7,8,9-Cl7-Dibenzofuran	"			<3.9	<32	<5.4	<13	<10
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	"			5.0	42	32	61	<18
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	"			<5.1	22	18	31	7.9
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	"			13	240	200	440	100
2,3,7,8-TCDF (DB225)	pg			<8.9	8.1	<4.6	10	<3.6
Internal Recoveries	%							
2,3,7,8-TCDF-13C12				94	94	94	97	87
TEQ based on Nato Factors	pg			6.3	10.9	8.2	18.2	4.6

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Client ID: R02090951
Lab No.: 18A
Date Sampled: 060284 02
12-Sep-2002

Component	MDL	Units
Total Tetrachlorodibenzofurans	pg	130
Total Pentachlorodibenzofurans	"	62
Total Hexachlorodibenzofurans	"	21
Total Heptachlorodibenzofurans	"	14
Octachlorodibenzofuran	"	22
Total Tetrachlorodibenzo-p-dioxins	"	110
Total Pentachlorodibenzo-p-dioxins	"	35
Total Hexachlorodibenzo-p-dioxins	"	59
Total Heptachlorodibenzo-p-dioxins	"	74
Octachlorodibenzo-p-dioxin	"	300
Internal Recoveries	%	
2,3,7,8-T4CDF-13C12		90
2,3,7,8-T4CDD-13C12		102
1,2,3,7,8-P5CDF-13C12		94
1,2,3,7,8-P5CDD-13C12		98
1,2,3,4,7,8-H6CDF-13C12		94
1,2,3,6,7,8-H6CDD-13C12		98
1,2,3,4,6,7,8-H7CDF-13C12		80
1,2,3,4,6,7,8-H7CDD-13C12		88
OCDD-13C12		92
2,3,7,8-Cl4-Dibenzofuran (DB5)	pg	<20
2,3,7,8-Cl4-Dibenzo-p-dioxin	"	<2.4
1,2,3,7,8-Cl5-Dibenzofuran	"	<2.7
2,3,4,7,8-Cl5-Dibenzofuran	"	5.9
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	"	<2.5
1,2,3,4,7,8-Cl6-Dibenzofuran	"	8.4
1,2,3,6,7,8-Cl6-Dibenzofuran	"	<3.2
2,3,4,6,7,8-Cl6-Dibenzofuran	"	<3.9
1,2,3,7,8,9-Cl6-Dibenzofuran	"	<4.1
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	"	<2.9
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	"	2.8
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	"	3.4
1,2,3,4,6,7,8-Cl7-Dibenzofuran	"	<17
1,2,3,4,7,8,9-Cl7-Dibenzofuran	"	<13
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	"	43
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	"	22
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	"	300
2,3,7,8-TCDF (DB225)	pg	<5.1
Internal Recoveries	%	
2,3,7,8-TCDF-13C12		109
TEQ based on Nato Factors	pg	8.2

Client:Philip Analytical Services Inc Project:Misc.

File# 39327

Sample

Sam **039327**

Com PSC-P

Sam 1

R02090971

09A

#	Name	pg	LOD(pg)
1	2,3,7,8-Cl4-Dibenzofuran	9.0	-0.42
2	1,2,3,7,8-Cl5-Dibenzofuran	-0.56	-0.56
3	2,3,4,7,8-Cl5-Dibenzofuran	1.5	-0.54
4	1,2,3,4,7,8-Cl6-Dibenzofuran	2.6	-0.82
5	1,2,3,6,7,8-Cl6-Dibenzofuran	-0.82	-0.82
6	2,3,4,6,7,8-Cl6-Dibenzofuran	-0.93	-0.93
7	1,2,3,7,8,9-Cl6-Dibenzofuran	-1.0	-1.0
8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	-14	-14
9	1,2,3,4,7,8,9-Cl7-Dibenzofuran	-3.9	-3.9
10	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	-3.4	-3.4
11	2,3,7,8-Cl4-Dibenzo-p-dioxin	-0.93	-0.93
12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	-1.5	-1.5
13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	-1.2	-1.2
14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	-1.1	-1.1
15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	-1.1	-1.1
16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	-7.3	-7.3
17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	55	-2.7
18	2,3,7,8-T4CDF-13C12	90	
19	1,2,3,7,8-P5CDF-13C12	65	
20	1,2,3,6,7,8-H6CDF-13C12	90	
21	1,2,3,4,6,7,8-H7CDF-13C12	72	
22	2,3,7,8-T4CDD-13C12	83	

23	1,2,3,7,8-P5CDD-13C12	70	
24	1,2,3,6,7,8-H6CDD-13C12	84	
25	1,2,3,4,6,7,8-H7CDD-13C12	80	
26	OCDD-13C12	63	
35	Total Tetrachlorodibenzofurans	49	-0.42
36	Total Tetrachlorodibenzo-p-dioxins	43	-0.93
37	Total Pentachlorodibenzofurans	6.2	-0.54
38	Total Pentachlorodibenzo-p-dioxins	14	-1.5
39	Total Hexachlorodibenzofurans	2.6	-0.82
40	Total Hexachlorodibenzo-p-dioxins	9.4	-1.1
41	Total Heptachlorodibenzofurans	-2.6	-2.6
42	Total Heptachlorodibenzo-p-dioxins	12	-2.1
	TEQ based on Nato Factors	1.9	
	2,3,7,8-TCDF (DB225)	2.9	-1.7
	Internal Recoveries	%	
	2,3,7,8-TCDF-13C12	114	

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File# 39330

Sample

Sam **039330**

Com PSC-P

Sam 1

R02090971

01A

#	Name	pg	LOD(pg)
1	2,3,7,8-Cl4-Dibenzofuran	6.1	-0.31
2	1,2,3,7,8-Cl5-Dibenzofuran	1.2	-0.33
3	2,3,4,7,8-Cl5-Dibenzofuran	1.0	-0.32
4	1,2,3,4,7,8-Cl6-Dibenzofuran	-1.6	-1.6
5	1,2,3,6,7,8-Cl6-Dibenzofuran	1.1	-0.50
6	2,3,4,6,7,8-Cl6-Dibenzofuran	-1.5	-1.5
7	1,2,3,7,8,9-Cl6-Dibenzofuran	-0.63	-0.63
8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	-2.2	-2.2
9	1,2,3,4,7,8,9-Cl7-Dibenzofuran	-2.5	-2.5
10	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	-2.0	-2.0
11	2,3,7,8-Cl4-Dibenzo-p-dioxin	10	-0.84
12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	-0.78	-0.78
13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	-0.50	-0.50
14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	-1.0	-1.0
15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	-0.70	-0.70
16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	-3.1	-3.1
17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	18	-1.3
18	2,3,7,8-T4CDF-13C12	% 142	
19	1,2,3,7,8-P5CDF-13C12	92	
20	1,2,3,6,7,8-H6CDF-13C12	50	
21	1,2,3,4,6,7,8-H7CDF-13C12	36	
22	2,3,7,8-T4CDD-13C12	52	

23	1,2,3,7,8-P5CDD-13C12	84	
24	1,2,3,6,7,8-H6CDD-13C12	72	
25	1,2,3,4,6,7,8-H7CDD-13C12	72	
26	OCDD-13C12	67	
35	Total Tetrachlorodibenzofurans	22	-0.33
36	Total Tetrachlorodibenzo-p-dioxins	55	-0.89
37	Total Pentachlorodibenzofurans	5.3	-0.33
38	Total Pentachlorodibenzo-p-dioxins	6.7	-0.79
39	Total Hexachlorodibenzofurans	1.1	-0.53
40	Total Hexachlorodibenzo-p-dioxins	-0.60	-0.60
41	Total Heptachlorodibenzofurans	-2.4	-2.4
42	Total Heptachlorodibenzo-p-dioxins	3.5	-0.41
	TEQ based on Nato Factors	11	
	2,3,7,8-TCDF (DB225)	-2.0	
	Internal Recoveries	%	
	2,3,7,8-TCDF-13C12	107	