

PSC Analytical Services
Certificate of Analysis

	R02100402	R02100402	R02100402
Client ID:	07A	07A	07A
Lab No.:	039092 02	039092 02	039092 02
Date Sampled:	02/10/09	02/10/09	02/10/09
Matrix:			

Component	RDL	Units	TEF	# of Isomers
Dioxins and furans				
2,3,7,8-Cl4DBF	0.31	pg	34	3.4
2,3,7,8-Cl4DBD	8.8	"	<8.8	<8.8
1,2,3,7,8-Cl5DBF	0.46	"	6.6	0.33
2,3,4,7,8-Cl5DBF	0.45	"	6.6	3.3
1,2,3,7,8-Cl5DBD	3.6	"	<3.6	<1.8
1,2,3,4,7,8-Cl6DBF	0.74	"	7.0	0.70
1,2,3,6,7,8-Cl6DBF	5.0	"	<5.0	<0.50
2,3,4,6,7,8-Cl6DBF	0.81	"	7.8	0.78
1,2,3,7,8,9-Cl6DBF	0.87	"	6.2	0.62
1,2,3,4,7,8-Cl6DBD	1.5	"	3.2	0.32
1,2,3,6,7,8-Cl6DBD	4.6	"	<4.6	<0.46
1,2,3,7,8,9-Cl6DBD	1.3	"	6.8	0.68
1,2,3,4,6,7,8-Cl7DBF	51	"	<51	<0.51
1,2,3,4,7,8,9-Cl7DBF	8.5	"	<8.5	<0.085
1,2,3,4,6,7,8-Cl7DBD	1.9	"	20	0.20
1,2,3,4,6,7,8,9-Cl8DBF	1.8	"	12	0.012
1,2,3,4,6,7,8,9-Cl8DBD	2.5	"	100	0.10
	TEF	pg	10	
EPA Requested TEQ			<	16.50
MAX TEF		"	<	23
Units Ng/m²			<	1.65
ΣT4CDF	0.31	pg	150	13
ΣP5CDF	0.46	"	56	8
ΣH6CDF	0.74	"	28	4
ΣH7CDF	11	"	<11	0
OCDF	1.8	"	12	1
ΣT4CDD	0.55	"	170	10
ΣP5CDD	0.96	"	84	5
ΣH6CDD	1.4	"	54	5
ΣH7CDD	1.9	"	38	2
OCDD	2.5	"	100	1
Surrogate Recoveries		%		
2,3,7,8-T4CDF-13C12			91	
2,3,7,8-T4CDD-13C12			88	
1,2,3,7,8-P5CDF-13C12			69	
1,2,3,7,8-P5CDD-13C12			62	
1,2,3,6,7,8-H6CDF-13C12			88	
1,2,3,6,7,8-H6CDD-13C12			83	
1,2,3,4,6,7,8-H7CDF-13C12			65	
1,2,3,4,6,7,8-H7CDD-13C12			67	
OCDD-13C12			41	

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**PSC Analytical Services
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	R02100402	R02100402	R02100402
Client ID:	08A	08A	08A
Lab No.:	039093 02	039093 02	039093 02
Date Sampled:	02/10/09	02/10/09	02/10/09
Matrix:			

Component	RDL	Units	TEF	# of Isomers
Dioxins and furans				
2,3,7,8-Cl4DBF	0.18	pg	2.7	0.27
2,3,7,8-Cl4DBD	0.42	"	<0.42	<0.42
1,2,3,7,8-Cl5DBF	0.55	"	<0.55	<0.027
2,3,4,7,8-Cl5DBF	0.61	"	<0.61	<0.30
1,2,3,7,8-Cl5DBD	6.3	"	<6.3	<3.2
1,2,3,4,7,8-Cl6DBF	0.21	"	0.43	0.043
1,2,3,6,7,8-Cl6DBF	0.19	"	0.28	0.028
2,3,4,6,7,8-Cl6DBF	0.66	"	<0.66	<0.066
1,2,3,7,8,9-Cl6DBF	0.66	"	<0.66	<0.066
1,2,3,4,7,8-Cl6DBD	1.1	"	<1.1	<0.11
1,2,3,6,7,8-Cl6DBD	0.98	"	<0.98	<0.098
1,2,3,7,8,9-Cl6DBD	1.2	"	<1.2	<0.12
1,2,3,4,6,7,8-Cl7DBF	490	"	<490	<4.9
1,2,3,4,7,8,9-Cl7DBF	28	"	<28	<0.28
1,2,3,4,6,7,8-Cl7DBD	0.41	"	42	0.42
1,2,3,4,6,7,8,9-Cl8DBF	0.21	"	2.4	0.0024
1,2,3,4,6,7,8,9-Cl8DBD	0.48	"	430	0.43
TEF		pg	1.2	
EPA Requested TEQ			< 6.10	
MAX TEF		"	< 11	
Units Ng/m²			< 0.61	
ΣT4CDF	0.18	pg	5.8	7
ΣP5CDF	0.50	"	0.70	1
ΣH6CDF	0.21	"	1.8	3
ΣH7CDF	26	"	<26	0
OCDF	0.21	"	2.4	1
ΣT4CDD	0.27	"	0.43	1
ΣP5CDD	6.3	"	6.4	1
ΣH6CDD	0.57	"	3.3	2
ΣH7CDD	0.41	"	75	2
OCDD	0.48	"	430	1
Surrogate Recoveries		%		
2,3,7,8-T4CDF-13C12			92	
2,3,7,8-T4CDD-13C12			92	
1,2,3,7,8-P5CDF-13C12			93	
1,2,3,7,8-P5CDD-13C12			97	
1,2,3,6,7,8-H6CDF-13C12			86	
1,2,3,6,7,8-H6CDD-13C12			88	
1,2,3,4,6,7,8-H7CDF-13C12			99	
1,2,3,4,6,7,8-H7CDD-13C12			100	
OCDD-13C12			72	

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