

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	



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
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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	



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File# 39329

Sample

Sam 039329

R02090971

Com PSC-P

11A

Sam 1

#	Name	pg	LOD(pg)
1	2,3,7,8-Cl4-Dibenzofuran	8.5	-0.18
2	1,2,3,7,8-Cl5-Dibenzofuran	-1.6	-1.6
3	2,3,4,7,8-Cl5-Dibenzofuran	-1.1	-1.1
4	1,2,3,4,7,8-Cl6-Dibenzofuran	2.8	-0.44
5	1,2,3,6,7,8-Cl6-Dibenzofuran	-1.1	-1.1
6	2,3,4,6,7,8-Cl6-Dibenzofuran	-1.0	-1.0
7	1,2,3,7,8,9-Cl6-Dibenzofuran	-0.55	-0.55
8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	-0.68	-0.68
9	1,2,3,4,7,8,9-Cl7-Dibenzofuran	-0.94	-0.94
10	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	-3.1	-3.1
11	2,3,7,8-Cl4-Dibenzo-p-dioxin	0.79	-0.29
12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	0.53	-0.47
13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	-0.87	-0.87
14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	-0.83	-0.83
15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	-1.3	-1.3
16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	6.2	-0.29
17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	41	-0.82
		%	
18	2,3,7,8-T4CDF-13C12	86	
19	1,2,3,7,8-P5CDF-13C12	63	
20	1,2,3,6,7,8-H6CDF-13C12	65	
21	1,2,3,4,6,7,8-H7CDF-13C12	50	
22	2,3,7,8-T4CDD-13C12	85	



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23	1,2,3,7,8-P5CDD-13C12	64	
24	1,2,3,6,7,8-H6CDD-13C12	85	
25	1,2,3,4,6,7,8-H7CDD-13C12	80	
26	OCDD-13C12	77	
35	Total Tetrachlorodibenzofurans	34	-0.19
36	Total Tetrachlorodibenzo-p-dioxins	31	-0.31
37	Total Pentachlorodibenzofurans	5.1	-0.27
38	Total Pentachlorodibenzo-p-dioxins	19	-0.48
39	Total Hexachlorodibenzofurans	2.8	-0.46
40	Total Hexachlorodibenzo-p-dioxins	15	-0.77
41	Total Heptachlorodibenzofurans	2.1	-0.75
42	Total Heptachlorodibenzo-p-dioxins	14	-0.28
	TEQ based on Nato Factors	2.3	
	2,3,7,8-TCDF (DB225)	-3.0	
	Internal Recoveries	%	
	2,3,7,8-TCDF-13C12	117	

NYC-WTC_000108714



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File# 39328

Sample

Sam 039328

Com PSC-P

Sam 1

R02090971

10A

#	Name	pg	LOD(pg)
1	2,3,7,8-Cl4-Dibenzofuran	-0.22	-0.22
2	1,2,3,7,8-Cl5-Dibenzofuran	-0.67	-0.67
3	2,3,4,7,8-Cl5-Dibenzofuran	-0.22	-0.22
4	1,2,3,4,7,8-Cl6-Dibenzofuran	-0.28	-0.28
5	1,2,3,6,7,8-Cl6-Dibenzofuran	-0.28	-0.28
6	2,3,4,6,7,8-Cl6-Dibenzofuran	-0.31	-0.31
7	1,2,3,7,8,9-Cl6-Dibenzofuran	-0.35	-0.35
8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	-1.7	-1.7
9	1,2,3,4,7,8,9-Cl7-Dibenzofuran	-2.0	-2.0
10	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	-3.3	-3.3
11	2,3,7,8-Cl4-Dibenzo-p-dioxin	-0.46	-0.46
12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	-0.50	-0.50
13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	-0.46	-0.46
14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	-0.43	-0.43
15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	0.68	-0.42
16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	0.84	-0.74
17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	6.8	-0.45
18	2,3,7,8-T4CDF-13C12	% 79	
19	1,2,3,7,8-P5CDF-13C12	59	
20	1,2,3,6,7,8-H6CDF-13C12	81	
21	1,2,3,4,6,7,8-H7CDF-13C12	63	
22	2,3,7,8-T4CDD-13C12	72	



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23	1,2,3,7,8-P5CDD-13C12	56	
24	1,2,3,6,7,8-H6CDD-13C12	89	
25	1,2,3,4,6,7,8-H7CDD-13C12	73	
26	OCDD-13C12	69	
35	Total Tetrachlorodibenzofurans	4.5	-0.23
36	Total Tetrachlorodibenzo-p-dioxins	5.0	-0.46
37	Total Pentachlorodibenzofurans	0.58	-0.23
38	Total Pentachlorodibenzo-p-dioxins	2.4	-0.51
39	Total Hexachlorodibenzofurans	-0.29	-0.29
40	Total Hexachlorodibenzo-p-dioxins	0.68	-0.41
41	Total Heptachlorodibenzofurans	-1.9	-1.9
42	Total Heptachlorodibenzo-p-dioxins	0.84	-0.73
	TEQ based on Nato Factors	0.084	
	2,3,7,8-TCDF (DB225)	-2.0	
	Internal Recoveries	%	
	2,3,7,8-TCDF-13C12	108	



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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	



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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# 39326

Sample

Sam 039326

Com PSC-P

Sam 1

R02090971

08A

#	Name	pg	LOD(pg)
1	2,3,7,8-Cl4-Dibenzofuran	42	-0.44
2	1,2,3,7,8-Cl5-Dibenzofuran	5.8	-0.53
3	2,3,4,7,8-Cl5-Dibenzofuran	-7.3	-7.3
4	1,2,3,4,7,8-Cl6-Dibenzofuran	-12	-12
5	1,2,3,6,7,8-Cl6-Dibenzofuran	-5.8	-5.8
6	2,3,4,6,7,8-Cl6-Dibenzofuran	6.2	-0.89
7	1,2,3,7,8,9-Cl6-Dibenzofuran	-1.5	-1.5
8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	-60	-60
9	1,2,3,4,7,8,9-Cl7-Dibenzofuran	-5.7	-5.7
10	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	20	-2.1
11	2,3,7,8-Cl4-Dibenzo-p-dioxin	14	-0.66
12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	2.2	-0.71
13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	1.3	-0.83
14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	2.8	-0.79
15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	4.0	-0.77
16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	36	-0.54
17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	280	-1.0
		%	
18	2,3,7,8-T4CDF-13C12	87	
19	1,2,3,7,8-P5CDF-13C12	79	
20	1,2,3,6,7,8-H6CDF-13C12	71	
21	1,2,3,4,6,7,8-H7CDF-13C12	78	
22	2,3,7,8-T4CDD-13C12	86	



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23	1,2,3,7,8-P5CDD-13C12	90	
24	1,2,3,6,7,8-H6CDD-13C12	81	
25	1,2,3,4,6,7,8-H7CDD-13C12	88	
26	OCDD-13C12	80	
35	Total Tetrachlorodibenzofurans	210	-0.44
36	Total Tetrachlorodibenzo-p-dioxins	200	-0.66
37	Total Pentachlorodibenzofurans	56	-0.53
38	Total Pentachlorodibenzo-p-dioxins	70	-0.71
39	Total Hexachlorodibenzofurans	19	-0.85
40	Total Hexachlorodibenzo-p-dioxins	70	-0.79
41	Total Heptachlorodibenzofurans	-0.33	-0.33
42	Total Heptachlorodibenzo-p-dioxins	84	-0.54
	TEQ based on Nato Factors	22	
	2,3,7,8-TCDF (DB225)	12	-2.6
	Internal Recoveries	%	
	2,3,7,8-TCDF-13C12	112	



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File# 39325

Sample

Sam 039325

Com PSC-P

Sam 1

R02090971

07A

	#	Name	pg	LOD(pg)
A2378HRE	1	2,3,7,8-Cl4-Dibenzofuran	1.6	-0.30
A2378HRE	2	1,2,3,7,8-Cl5-Dibenzofuran	-0.55	-0.55
A2378HRE	3	2,3,4,7,8-Cl5-Dibenzofuran	-0.53	-0.53
A2378HRE	4	1,2,3,4,7,8-Cl6-Dibenzofuran	-0.61	-0.61
A2378HRE	5	1,2,3,6,7,8-Cl6-Dibenzofuran	-0.58	-0.58
A2378HRE	6	2,3,4,6,7,8-Cl6-Dibenzofuran	-0.66	-0.66
A2378HRE	7	1,2,3,7,8,9-Cl6-Dibenzofuran	-0.73	-0.73
A2378HRE	8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	-6.6	-6.6
A2378HRE	9	1,2,3,4,7,8,9-Cl7-Dibenzofuran	-5.4	-5.4
A2378HRE	10	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	-2.4	-2.4
A2378HRE	11	2,3,7,8-Cl4-Dibenzo-p-dioxin	-0.71	-0.71
A2378HRE	12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	-0.48	-0.48
A2378HRE	13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	-0.68	-0.68
A2378HRE	14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	-0.64	-0.64
A2378HRE	15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	-0.63	-0.63
A2378HRE	16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	2.4	-0.54
A2378HRE	17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	17	-1.2
APCDDHRE	18	2,3,7,8-T4CDF-13C12	% 86	
APCDDHRE	19	1,2,3,7,8-P5CDF-13C12	81	
APCDDHRE	20	1,2,3,6,7,8-H6CDF-13C12	80	
APCDDHRE	21	1,2,3,4,6,7,8-H7CDF-13C12	52	
APCDDHRE	22	2,3,7,8-T4CDD-13C12	83	



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APCDDHRE	23	1,2,3,7,8-P5CDD-13C12	90	
APCDDHRE	24	1,2,3,6,7,8-H6CDD-13C12	81	
APCDDHRE	25	1,2,3,4,6,7,8-H7CDD-13C12	91	
APCDDHRE	26	OCDD-13C12	77	
APCDDHRE	35	Total Tetrachlorodibenzofurans	3.1	-0.30
APCDDHRE	36	Total Tetrachlorodibenzo-p-dioxins	-0.65	-0.65
APCDDHRE	37	Total Pentachlorodibenzofurans	-0.55	-0.55
APCDDHRE	38	Total Pentachlorodibenzo-p-dioxins	1.1	-0.48
APCDDHRE	39	Total Hexachlorodibenzofurans	-0.66	-0.66
APCDDHRE	40	Total Hexachlorodibenzo-p-dioxins	1.1	-0.68
APCDDHRE	41	Total Heptachlorodibenzofurans	-0.84	-0.84
APCDDHRE	42	Total Heptachlorodibenzo-p-dioxins	5.9	-0.54
		TEQ based on Nato Factors	0.20	
		2,3,7,8-TCDF (DB225)	-2.0	
		Internal Recoveries	%	
		2,3,7,8-TCDF-13C12	111	



DEPARTMENT OF ENVIRONMENTAL PROTECTION

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File# 39324

Sample

Sam 039324

Com PSC-P

Sam 1

R02090971

06A

	#	Name	pg	LOD(pg)
A2378HRE	1	2,3,7,8-Cl4-Dibenzofuran	55	-0.37
A2378HRE	2	1,2,3,7,8-Cl5-Dibenzofuran	11	-0.70
A2378HRE	3	2,3,4,7,8-Cl5-Dibenzofuran	14	-0.67
A2378HRE	4	1,2,3,4,7,8-Cl6-Dibenzofuran	28	-0.31
A2378HRE	5	1,2,3,6,7,8-Cl6-Dibenzofuran	-12	-12
A2378HRE	6	2,3,4,6,7,8-Cl6-Dibenzofuran	15	-0.35
A2378HRE	7	1,2,3,7,8,9-Cl6-Dibenzofuran	-3.6	-3.6
A2378HRE	8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	91	-1.8
A2378HRE	9	1,2,3,4,7,8,9-Cl7-Dibenzofuran	-14	-14
A2378HRE	10	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	38	-2.7
A2378HRE	11	2,3,7,8-Cl4-Dibenzo-p-dioxin	-20	-20
A2378HRE	12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	3.9	-0.56
A2378HRE	13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	3.4	-1.0
A2378HRE	14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	9.5	-1.0
A2378HRE	15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	13	-1.0
A2378HRE	16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	220	-0.91
A2378HRE	17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	2000 %	-2.7
APCDDHRE	18	2,3,7,8-T4CDF-13C12	80	
APCDDHRE	19	1,2,3,7,8-P5CDF-13C12	65	
APCDDHRE	20	1,2,3,6,7,8-H6CDF-13C12	46	
APCDDHRE	21	1,2,3,4,6,7,8-H7CDF-13C12	39	
APCDDHRE	22	2,3,7,8-T4CDD-13C12	84	



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APCDDHRE	23	1,2,3,7,8-P5CDD-13C12	73	
APCDDHRE	24	1,2,3,6,7,8-H6CDD-13C12	67	
APCDDHRE	25	1,2,3,4,6,7,8-H7CDD-13C12	81	
APCDDHRE	26	OCDD-13C12	78	
APCDDHRE	35	Total Tetrachlorodibenzofurans	210	-0.37
APCDDHRE	36	Total Tetrachlorodibenzo-p-dioxins	190	-0.54
APCDDHRE	37	Total Pentachlorodibenzofurans	110	-0.70
APCDDHRE	38	Total Pentachlorodibenzo-p-dioxins	97	-0.56
APCDDHRE	39	Total Hexachlorodibenzofurans	70	-0.35
APCDDHRE	40	Total Hexachlorodibenzo-p-dioxins	190	-1.0
APCDDHRE	41	Total Heptachlorodibenzofurans	91	-2.0
APCDDHRE	42	Total Heptachlorodibenzo-p-dioxins	490	-0.91
		TEQ based on Nato Factors	24	
		2,3,7,8-TCDF (DB225)	9.9	-3.7
		Internal Recoveries	%	
		2,3,7,8-TCDF-13C12	111	



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File# 39323

Sample

Sam 039323

Com PSC-P

Sam 1

R02090971

05A

	#	Name	pg	LOD(pg)
A2378HRE	1	2,3,7,8-Cl4-Dibenzofuran	40	-0.66
A2378HRE	2	1,2,3,7,8-Cl5-Dibenzofuran	6.4	-0.63
A2378HRE	3	2,3,4,7,8-Cl5-Dibenzofuran	8.7	-0.61
A2378HRE	4	1,2,3,4,7,8-Cl6-Dibenzofuran	14	-0.38
A2378HRE	5	1,2,3,6,7,8-Cl6-Dibenzofuran	-6.3	-6.3
A2378HRE	6	2,3,4,6,7,8-Cl6-Dibenzofuran	7.3	-0.43
A2378HRE	7	1,2,3,7,8,9-Cl6-Dibenzofuran	1.1	-0.48
A2378HRE	8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	-30	-30
A2378HRE	9	1,2,3,4,7,8,9-Cl7-Dibenzofuran	-3.4	-3.4
A2378HRE	10	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	4.4	-0.55
A2378HRE	11	2,3,7,8-Cl4-Dibenzo-p-dioxin	14	-0.53
A2378HRE	12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	-2.8	-2.8
A2378HRE	13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	-1.7	-1.7
A2378HRE	14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	3.4	-0.47
A2378HRE	15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	5.8	-0.46
A2378HRE	16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	22	-1.2
A2378HRE	17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	120	-1.1
APCDDHRE	18	2,3,7,8-T4CDF-13C12	% 83	
APCDDHRE	19	1,2,3,7,8-P5CDF-13C12	71	
APCDDHRE	20	1,2,3,6,7,8-H6CDF-13C12	58	
APCDDHRE	21	1,2,3,4,6,7,8-H7CDF-13C12	56	
APCDDHRE	22	2,3,7,8-T4CDD-13C12	84	



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APCDDHRE	23	1,2,3,7,8-P5CDD-13C12	75	
APCDDHRE	24	1,2,3,6,7,8-H6CDD-13C12	71	
APCDDHRE	25	1,2,3,4,6,7,8-H7CDD-13C12	79	
APCDDHRE	26	OCDD-13C12	74	
APCDDHRE	35	Total Tetrachlorodibenzofurans	150	-0.66
APCDDHRE	36	Total Tetrachlorodibenzo-p-dioxins	130	-0.53
APCDDHRE	37	Total Pentachlorodibenzofurans	70	-0.61
APCDDHRE	38	Total Pentachlorodibenzo-p-dioxins	130	-0.43
APCDDHRE	39	Total Hexachlorodibenzofurans	33	-0.43
APCDDHRE	40	Total Hexachlorodibenzo-p-dioxins	93	-0.49
APCDDHRE	41	Total Heptachlorodibenzofurans	2.5	-0.55
APCDDHRE	42	Total Heptachlorodibenzo-p-dioxins	51	-1.2
		TEQ based on Nato Factors	26	
		2,3,7,8-TCDF (DB225)	7.3	-2.9
		Internal Recoveries	%	
		2,3,7,8-TCDF-13C12	116	



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File# 39322

Sample

Sam 039322

Com PSC-P

Sam 1

R02090971

04A

	#	Name	pg	LOD(pg)
A2378HRE	1	2,3,7,8-Cl4-Dibenzofuran	2.3	-0.24
A2378HRE	2	1,2,3,7,8-Cl5-Dibenzofuran	-0.58	-0.58
A2378HRE	3	2,3,4,7,8-Cl5-Dibenzofuran	0.45	-0.42
A2378HRE	4	1,2,3,4,7,8-Cl6-Dibenzofuran	-0.44	-0.44
A2378HRE	5	1,2,3,6,7,8-Cl6-Dibenzofuran	-0.44	-0.44
A2378HRE	6	2,3,4,6,7,8-Cl6-Dibenzofuran	-0.50	-0.50
A2378HRE	7	1,2,3,7,8,9-Cl6-Dibenzofuran	-0.56	-0.56
A2378HRE	8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	-130	-130
A2378HRE	9	1,2,3,4,7,8,9-Cl7-Dibenzofuran	-15	-15
A2378HRE	10	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	-0.82	-0.82
A2378HRE	11	2,3,7,8-Cl4-Dibenzo-p-dioxin	-0.52	-0.52
A2378HRE	12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	-0.48	-0.48
A2378HRE	13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	-0.41	-0.41
A2378HRE	14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	-0.41	-0.41
A2378HRE	15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	-0.39	-0.39
A2378HRE	16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	-1.1	-1.1
A2378HRE	17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	8.4	-0.49
APCDDHRE	18	2,3,7,8-T4CDF-13C12	% 85	
APCDDHRE	19	1,2,3,7,8-P5CDF-13C12	70	
APCDDHRE	20	1,2,3,6,7,8-H6CDF-13C12	28	
APCDDHRE	21	1,2,3,4,6,7,8-H7CDF-13C12	13	
APCDDHRE	22	2,3,7,8-T4CDD-13C12	88	



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APCDDHRE	23	1,2,3,7,8-P5CDD-13C12	88	
APCDDHRE	24	1,2,3,6,7,8-H6CDD-13C12	55	
APCDDHRE	25	1,2,3,4,6,7,8-H7CDD-13C12	74	
APCDDHRE	26	OCDD-13C12	70	
APCDDHRE	35	Total Tetrachlorodibenzofurans	4.2	-0.24
APCDDHRE	36	Total Tetrachlorodibenzo-p-dioxins	2.4	-0.34
APCDDHRE	37	Total Pentachlorodibenzofurans	0.45	-0.43
APCDDHRE	38	Total Pentachlorodibenzo-p-dioxins	0.88	-0.48
APCDDHRE	39	Total Hexachlorodibenzofurans	-0.50	-0.50
APCDDHRE	40	Total Hexachlorodibenzo-p-dioxins	1.7	-0.41
APCDDHRE	41	Total Heptachlorodibenzofurans	-3.3	-3.3
APCDDHRE	42	Total Heptachlorodibenzo-p-dioxins	-0.51	-0.51
		TEQ based on Nato Factors	0.47	
		2,3,7,8-TCDF (DB225)	-2.7	
		Internal Recoveries	%	
		2,3,7,8-TCDF-13C12	111	



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File# 39321

Sample

Sam 039321

Com PSC-P

Sam 1

R02090971

03A

	#	Name	pg	LOD(pg)
A2378HRE	1	2,3,7,8-Cl4-Dibenzofuran	33	-0.43
A2378HRE	2	1,2,3,7,8-Cl5-Dibenzofuran	5.2	-0.47
A2378HRE	3	2,3,4,7,8-Cl5-Dibenzofuran	5.3	-0.46
A2378HRE	4	1,2,3,4,7,8-Cl6-Dibenzofuran	9.6	-0.47
A2378HRE	5	1,2,3,6,7,8-Cl6-Dibenzofuran	-3.9	-3.9
A2378HRE	6	2,3,4,6,7,8-Cl6-Dibenzofuran	-4.3	-4.3
A2378HRE	7	1,2,3,7,8,9-Cl6-Dibenzofuran	1.5	-0.58
A2378HRE	8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	-53	-53
A2378HRE	9	1,2,3,4,7,8,9-Cl7-Dibenzofuran	-1.4	-1.4
A2378HRE	10	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	5.0	-1.7
A2378HRE	11	2,3,7,8-Cl4-Dibenzo-p-dioxin	-0.55	-0.55
A2378HRE	12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	1.9	-0.47
A2378HRE	13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	1.1	-0.43
A2378HRE	14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	2.7	-0.41
A2378HRE	15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	3.1	-0.40
A2378HRE	16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	15	-0.52
A2378HRE	17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	74	-0.56
APCDDHRE	18	2,3,7,8-T4CDF-13C12	% 71	
APCDDHRE	19	1,2,3,7,8-P5CDF-13C12	59	
APCDDHRE	20	1,2,3,6,7,8-H6CDF-13C12	49	
APCDDHRE	21	1,2,3,4,6,7,8-H7CDF-13C12	39	
APCDDHRE	22	2,3,7,8-T4CDD-13C12	70	



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APCDDHRE	23	1,2,3,7,8-P5CDD-13C12	65	
APCDDHRE	24	1,2,3,6,7,8-H6CDD-13C12	83	
APCDDHRE	25	1,2,3,4,6,7,8-H7CDD-13C12	77	
APCDDHRE	26	OCDD-13C12	82	
APCDDHRE	35	Total Tetrachlorodibenzofurans	100	-0.43
APCDDHRE	36	Total Tetrachlorodibenzo-p-dioxins	120	-0.55
APCDDHRE	37	Total Pentachlorodibenzofurans	31	-0.47
APCDDHRE	38	Total Pentachlorodibenzo-p-dioxins	64	-0.47
APCDDHRE	39	Total Hexachlorodibenzofurans	16	-0.47
APCDDHRE	40	Total Hexachlorodibenzo-p-dioxins	58	-0.43
APCDDHRE	41	Total Heptachlorodibenzofurans	-1.4	-1.4
APCDDHRE	42	Total Heptachlorodibenzo-p-dioxins	35	-0.52
		TEQ based on Nato Factors	9.1	
		2,3,7,8-TCDF (DB225)	4.8	-2.9
		Internal Recoveries	%	
		2,3,7,8-TCDF-13C12	107	



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Filen 39320

Sample

Sam 039320

Com PSC-P

Sam 1

R02090971

02A

	#	Name	pg	LOD(pg)
A2378HRE	1	2,3,7,8-Cl4-Dibenzofuran	-0.23	-0.23
A2378HRE	2	1,2,3,7,8-Cl5-Dibenzofuran	2.4	-0.7
A2378HRE	3	2,3,4,7,8-Cl5-Dibenzofuran	-2.4	-2.4
A2378HRE	4	1,2,3,4,7,8-Cl6-Dibenzofuran	4.3	-0.8
A2378HRE	5	1,2,3,6,7,8-Cl6-Dibenzofuran	-3.1	-3.1
A2378HRE	6	2,3,4,6,7,8-Cl6-Dibenzofuran	-5.4	-5.4
A2378HRE	7	1,2,3,7,8,9-Cl6-Dibenzofuran	-0.96	-0.96
A2378HRE	8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	-3.5	-3.5
A2378HRE	9	1,2,3,4,7,8,9-Cl7-Dibenzofuran	-9.9	-9.9
A2378HRE	10	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	4.0	-1.4
A2378HRE	11	2,3,7,8-Cl4-Dibenzo-p-dioxin	-0.34	-0.34
A2378HRE	12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	-0.99	-0.99
A2378HRE	13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	-0.40	-0.40
A2378HRE	14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	-1.2	-1.2
A2378HRE	15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	-3.2	-3.2
A2378HRE	16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	9.8	-0.7
A2378HRE	17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	54	-1.1
APCDDHRE	18	2,3,7,8-T4CDF-13C12	% 72	
APCDDHRE	19	1,2,3,7,8-P5CDF-13C12	48	
APCDDHRE	20	1,2,3,6,7,8-H6CDF-13C12	31	
APCDDHRE	21	1,2,3,4,6,7,8-H7CDF-13C12	20	
APCDDHRE	22	2,3,7,8-T4CDD-13C12	73	



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APCDDHRE	23	1,2,3,7,8-P5CDD-13C12	49	
APCDDHRE	24	1,2,3,6,7,8-H6CDD-13C12	62	
APCDDHRE	25	1,2,3,4,6,7,8-H7CDD-13C12	64	
APCDDHRE	26	OCDD-13C12	65	
APCDDHRE	35	Total Tetrachlorodibenzofurans	57	-0.23
APCDDHRE	36	Total Tetrachlorodibenzo-p-dioxins	36	-0.34
APCDDHRE	37	Total Pentachlorodibenzofurans	8.6	-0.74
APCDDHRE	38	Total Pentachlorodibenzo-p-dioxins	12	-0.46
APCDDHRE	39	Total Hexachlorodibenzofurans	4.3	-0.87
APCDDHRE	40	Total Hexachlorodibenzo-p-dioxins	14	-0.56
APCDDHRE	41	Total Heptachlorodibenzofurans	-4.8	-4.8
APCDDHRE	42	Total Heptachlorodibenzo-p-dioxins	17	-0.72
		TEQ based on Nato Factors	0.71	
		2,3,7,8-TCDF (DB225)	3.9	-2.3
		Internal Recoveries	%	
		2,3,7,8-TCDF-13C12	112	



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ROBERT C. AVALYRONI
Deputy Commissioner

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Filen BWMS021018
 Sample
 Sam MBLANMS
 Com blanc enrichi
 Sam 1

	#	Name	pg
A2378HRE	1	2,3,7,8-Cl4-Dibenzofuran	1100
A2378HRE	2	1,2,3,7,8-Cl5-Dibenzofuran	1200
A2378HRE	3	2,3,4,7,8-Cl5-Dibenzofuran	1100
A2378HRE	4	1,2,3,4,7,8-Cl6-Dibenzofuran	1200
A2378HRE	5	1,2,3,6,7,8-Cl6-Dibenzofuran	1200
A2378HRE	6	2,3,4,6,7,8-Cl6-Dibenzofuran	1200
A2378HRE	7	1,2,3,7,8,9-Cl6-Dibenzofuran	1200
A2378HRE	8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	1200
A2378HRE	9	1,2,3,4,7,8,9-Cl7-Dibenzofuran	1300
A2378HRE	10	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	2000
A2378HRE	11	2,3,7,8-Cl4-Dibenzo-p-dioxin	1300
A2378HRE	12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	1100
A2378HRE	13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	1100
A2378HRE	14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	1100
A2378HRE	15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	1100
A2378HRE	16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	1200
A2378HRE	17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	2300
APCDDHRE	18	2,3,7,8-T4CDF-13C12	% 80
APCDDHRE	19	1,2,3,7,8-P5CDF-13C12	52
APCDDHRE	20	1,2,3,6,7,8-H6CDF-13C12	84
APCDDHRE	21	1,2,3,4,6,7,8-H7CDF-13C12	62
APCDDHRE	22	2,3,7,8-T4CDD-13C12	74



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION
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Deputy Commissioner

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Materials

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Code	LOD(pg)
2,3,7,8-Cl4-Dibenzofuran%REC=88	-0.27
1,2,3,7,8-Cl5-Dibenzofuran%REC=96	-0.42
2,3,4,7,8-Cl5-Dibenzofuran%REC=88	-0.41
1,2,3,4,7,8-Cl6-Dibenzofuran%REC=96	-0.37
1,2,3,6,7,8-Cl6-Dibenzofuran%REC=96	-0.37
2,3,4,6,7,8-Cl6-Dibenzofuran%REC=96	-0.42
1,2,3,7,8,9-Cl6-Dibenzofuran%REC=96	-0.47
1,2,3,4,6,7,8-Cl7-Dibenzofuran%REC=96	-1.5
1,2,3,4,7,8,9-Cl7-Dibenzofuran%REC=104	-1.7
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran%REC=80	-2.5
2,3,7,8-Cl4-Dibenzo-p-dioxin%REC=104	-0.36
1,2,3,7,8-Cl5-Dibenzo-p-dioxin%REC=88	-0.67
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin%REC=88	-0.75
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin%REC=88	-0.72
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin%REC=88	-0.70
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin%REC=96	-1.9
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin%REC=92	-2.7



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• •

-0.27

-0.36

-0.42

-0.67

-0.42

-0.75

-1.7

-1.9



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Filen BL021018
 Sample
 Sam MBLANK
 Com blanc de méthode
 Sam 1

	#	Name	pg	LOD(pg)
A2378HRE	1	2,3,7,8-Cl4-Dibenzofuran	-0.48	-0.48
A2378HRE	2	1,2,3,7,8-Cl5-Dibenzofuran	-0.46	-0.46
A2378HRE	3	2,3,4,7,8-Cl5-Dibenzofuran	-0.28	-0.28
A2378HRE	4	1,2,3,4,7,8-Cl6-Dibenzofuran	-0.73	-0.73
A2378HRE	5	1,2,3,6,7,8-Cl6-Dibenzofuran	-0.72	-0.72
A2378HRE	6	2,3,4,6,7,8-Cl6-Dibenzofuran	-0.82	-0.82
A2378HRE	7	1,2,3,7,8,9-Cl6-Dibenzofuran	-0.91	-0.91
A2378HRE	8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	-0.60	-0.60
A2378HRE	9	1,2,3,4,7,8,9-Cl7-Dibenzofuran	-0.68	-0.68
A2378HRE	10	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	-2.85	-2.85
A2378HRE	11	2,3,7,8-Cl4-Dibenzo-p-dioxin	0.36	-0.35
A2378HRE	12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	-0.75	-0.75
A2378HRE	13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	-0.43	-0.43
A2378HRE	14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	-0.41	-0.41
A2378HRE	15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	-0.40	-0.40
A2378HRE	16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	-1.74	-1.74
A2378HRE	17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	-9.10	-9.10
APCDDHRE	18	2,3,7,8-T4CDF-13C12	% 90	
APCDDHRE	19	1,2,3,7,8-P5CDF-13C12	61	
APCDDHRE	20	1,2,3,6,7,8-H6CDF-13C12	77	
APCDDHRE	21	1,2,3,4,6,7,8-H7CDF-13C12	63	
APCDDHRE	22	2,3,7,8-T4CDD-13C12	85	



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APCDDHRE	23	1,2,3,7,8-P5CDD-13C12	62	
APCDDHRE	24	1,2,3,6,7,8-H6CDD-13C12	90	
APCDDHRE	25	1,2,3,4,6,7,8-H7CDD-13C12	72	
APCDDHRE	26	OCDD-13C12	66	
APCDDHRE	35	Total Tetrachlorodibenzofurans	-0.33	-0.33
APCDDHRE	36	Total Tetrachlorodibenzo-p-dioxins	0.36	0.36
APCDDHRE	37	Total Pentachlorodibenzofurans	-0.29	-0.29
APCDDHRE	38	Total Pentachlorodibenzo-p-dioxins	-0.75	-0.75
APCDDHRE	39	Total Hexachlorodibenzofurans	-0.72	-0.72
APCDDHRE	40	Total Hexachlorodibenzo-p-dioxins	-0.43	-0.43
APCDDHRE	41	Total Heptachlorodibenzofurans	-0.66	-0.66
APCDDHRE	42	Total Heptachlorodibenzo-p-dioxins	-1.12	-1.12
		2,3,7,8-TCDF (DB225)	-1.6	
		Internal Recoveries	%	
		2,3,7,8-TCDF-13C12	115	



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Certificate of Analysis

CLIENT INFORMATION

Attention: Michael Salum
Client Name: Philip Analytical Services Inc
Project: Misc.
Project Desc:

Address: 4418 Pottsville Pike
 Reading, Pennsylvania
 19605
Fax Number: 610 921-9667
Phone Number: 610 921-8833

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN023026
Date Received: 17-Sep-2002
Date Reported: 22-Oct-2002

Submission No.: 210647
Sample No.: 060266-060284

NOTES: *''-' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available*
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Blank correction is only performed on oil and grease, BTEX, total purgeable hydrocarbons
and VOC analyses when Canadian methods are utilized.
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
The enclosed copy of the Chain of Custody Record may contain information necessary for the
interpretation of the data.

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: _____





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11/1/02

PASC - Summary of Analysis Pre. Dates

Page MS-1 of 1

Batch Code:	1004HW01	1004HW01	1008HW01	1008HW01
PCDD/F (DB5)	060266 02	060272 02	060275 02	060281 02
	060267 02	060273 02	060276 02	060282 02
	060268 02	060274 02	060277 02	060283 02
	060269 02		060278 02	060284 02
	060270 02		060279 02	
	060271 02		060280 02	
Date Analysed:	02/10/09	02/10/10	02/10/19	02/10/21
Date Prepared:	02/10/04	02/10/04	02/10/08	02/10/08

Batch Code:	1004HW01	1008HW01
2,3,7,8-TCDF (DB225)	060268 02	060281 02
	060269 02	060282 02
	060272 02	060283 02
	060273 02	060284 02
	060274 02	
	060275 02	
	060276 02	
	060277 02	
	060278 02	
	060279 02	
	060280 02	
Date Analysed:	02/10/20	02/10/22
Date Prepared:	02/10/04	02/10/08



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File# 39330

Sample

Sam

Com PSC-P

Sam 1

#	Name	LOD (ppb)
1	2,3,7,8-Cl4-Dibenzofuran	17
2	1,2,3,7,8-Cl5-Dibenzofuran	12
3	2,3,4,7,8-Cl5-Dibenzofuran	10
4	1,2,3,4,7,8-Cl6-Dibenzofuran	
5	1,2,3,6,7,8-Cl6-Dibenzofuran	11
	2,3,4,6,7,8-Cl6-Dibenzofuran	
7	1,2,3,7,8,9-Cl6-Dibenzofuran	
8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	
9	1,2,3,4,6,7,8-Cl7-Dibenzofuran	
10	1,2,3,4,6,7,8-Cl7-Dibenzofuran	
11	1,2,3,4,6,7,8-Cl7-Dibenzofuran	
12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	10
13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	10
14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	10
15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	10
16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	10
17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	18
	%	
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	38
22	2,3,7,8-T4CDD-13C12	52



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