

Gilsenan, Michael

From: Theodorellys, Penny
Sent: Wednesday, April 16, 2003 4:38 PM
To: 'Nace.Charles@epamail.epa.gov'
Cc: Radhakrishnan, Krish; Gilsenan, Michael
Subject: FW: Final dioxin results



R03040083 Cover
Letter.pdf



R03040083
Report.pdf



R03040083 Excel
Report.xls



R03040083 TEQ
Report.xls

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

From: Andrew Gasparro [mailto:Agasparro@JLCEnvironmental.com]
Sent: Wednesday, April 16, 2003 2:41 PM
To: Theodorellys, Penny
Subject: FW: Final dioxin results

Penny,

Final Dioxins.

Thanks,

Andrew L. Gasparro
Vice President
JLC Environmental Consultants, Inc.
200 Park Ave. S. Suite 1001
New York, NY 10003
212-420-8119
212-420-6092 Fax
917-612-4803 Cell

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

From: Usbeck, Fred [mailto:FUsbeck@contactpsc.com]
Sent: Wednesday, April 16, 2003 12:48 PM
To: Andrew Gasparro
Subject: Final dioxin results

Andrew -

Attached are the final dioxin results (with TEQ's as required by EPA) for the second set of wipes. If you have any questions please get back to me.

thanks! Fred

<<R03040083 Cover Letter.pdf>> <<R03040083 Report.pdf>> <<R03040083 Excel Report.xls>> <<R03040083 TEQ Report.xls>>

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



INDUSTRIAL HYGIENE

•EPA PA-00136
 •AIHA ACCREDITATION NO. 100439
 •NC DENR 599

ENVIRONMENTAL TESTING

•NY DOH/NELAC 10903
 •PA DEP 05-353
 •NJ DEP PA020
 •CT DPH PH-0238

April 16, 2003

Andrew Gasparro
 JLC Env. Consultants Inc.
 200 Park Ave S
 Suite 1001
 New York, NY 10003-1503

TEL: (212) 420-8119
 FAX (212) 420-6092

RE: NYC DEP - Dioxin wipes

Order No.: R03040083

Dear Andrew Gasparro:

PSC Analytical Services received 30 samples on 4/1/2003 for the analyses presented in the following Certificate of Analytical Results.

The analyses and all data for associated QC met regulatory and/or laboratory specifications. Exceptions will be noted in an enclosed Case Narrative.

The results on the attached Certificate of Analytical results relate only to items tested or to the samples as received by the laboratory. This Certificate of Analytical Results shall not be reproduced, except in full, without the written approval of PSC Analytical, Reading, PA.

Please note that any unused portion of the samples will be disposed of 30 days following issuance of report, unless you have requested otherwise.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Fred Usbeck
 Manager, CIH

4418 Pottsville Pike, Reading, PA 19605 610-921-8833 FAX 610-921-8407



4418 Pottsville Pike Reading, PA 19605
(Tel) 610-921-8833 (Fax) 610-921-9667

INDUSTRIAL HYGIENE

•EPA PA-00135
 •AIHA ACCREDITATION NO. 100439
 •NC DENR 599

ENVIRONMENTAL TESTING

•NY DOH/NELAC 10903
 •PA DEP 06-353
 •NJ DEP PA020
 •CT DPH PH-0238

Date: 16-Apr-03

CLIENT: JLC Env. Consultants Inc.
Project: NYC DEP - Dioxin wipes

Lab Order: R03040083

Lab ID: R03040083-01 **Collection Date:** 3/29/2003
Client Sample ID: 13657 (01, 3rd Floor) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Lab ID: R03040083-02 **Collection Date:** 3/29/2003
Client Sample ID: 13658 (02, 3rd Floor) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Lab ID: R03040083-03 **Collection Date:** 3/29/2003
Client Sample ID: 13659 (03, 3rd Floor) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Lab ID: R03040083-04 **Collection Date:** 3/29/2003
Client Sample ID: 13660 (01, 4th Floor) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Lab ID: R03040083-05 **Collection Date:** 3/29/2003
Client Sample ID: 13661 (02, 4th Floor) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Qualifiers: BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



4418 Pottsville Pike Reading, PA 19605
(Tel) 610-921-8833 (Fax) 610-921-9667

INDUSTRIAL HYGIENE

•EPA PA-00136
 •AIHA ACCREDITATION NO. 100439
 •NC DENR 599

ENVIRONMENTAL TESTING

•NY DOH/NELAC 10903
 •PA DEP 06-353
 •NJ DEP PA020
 •CT DPH PH-0238

Date: 16-Apr-03

CLIENT: JLC Env. Consultants Inc.
Project: NYC DEP - Dioxin wipes

Lab Order: R03040083

Lab ID: R03040083-06

Collection Date: 3/29/2003

Client Sample ID: 13662 (03, 4th Floor)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Lab ID: R03040083-07

Collection Date: 3/29/2003

Client Sample ID: 13663 (01, 5th Floor)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Lab ID: R03040083-08

Collection Date: 3/29/2003

Client Sample ID: 13664 (02, 5th Floor)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Lab ID: R03040083-09

Collection Date: 3/29/2003

Client Sample ID: 13665 (03, 5th Floor)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Lab ID: R03040083-10

Collection Date: 3/29/2003

Client Sample ID: 13666 (01, 6th Floor)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Qualifiers:
 BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Page 2 of 6



4418 Pottsville Pike Reading, PA 19605
(Tel) 610-921-8833 (Fax) 610-921-9667

INDUSTRIAL HYGIENE

•EPA PA-00136
 •AIHA ACCREDITATION NO. 100439
 •NC DENR 599

ENVIRONMENTAL TESTING

•NY DOH/NELAC 10903
 •PA DEP 05-353
 •NJ DEP PA020
 •CT DPH PH-0238

Date: 16-Apr-03

CLIENT: JLC Env. Consultants Inc.
Project: NYC DEP - Dioxin wipes

Lab Order: R03040083

Lab ID: R03040083-11 **Collection Date:** 3/29/2003
Client Sample ID: 13667 (02, 6th Floor) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Lab ID: R03040083-12 **Collection Date:** 3/29/2003
Client Sample ID: 13668 (03, 6th Floor) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Lab ID: R03040083-13 **Collection Date:** 3/29/2003
Client Sample ID: 13669 (01, 7th Floor) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Lab ID: R03040083-14 **Collection Date:** 3/29/2003
Client Sample ID: 13670 (02, 7th Floor) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Lab ID: R03040083-15 **Collection Date:** 3/29/2003
Client Sample ID: 13671 (03, 7th Floor) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Qualifiers:
 BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



4418 Pottsville Pike Reading, PA 19605
(Tel) 610-921-8833 (Fax) 610-921-9567

INDUSTRIAL HYGIENE

•EPA PA-00135
 •AIHA ACCREDITATION NO. 100439
 •NC DENR 599

ENVIRONMENTAL TESTING

•NY DOH/NELAC 10908
 •PA DEP 06-353
 •NJ DEP PA020
 •CT DPH PH-0238

Date: 16-Apr-03

CLIENT: JLC Env. Consultants Inc.
Project: NYC DEP - Dioxin wipes

Lab Order: R03040083

Lab ID: R03040083-16 **Collection Date:** 3/29/2003
Client Sample ID: 13672 (01, 8th Floor) **Matrix:** WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Lab ID: R03040083-17 **Collection Date:** 3/29/2003
Client Sample ID: 13673 (02, 8th Floor) **Matrix:** WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Lab ID: R03040083-18 **Collection Date:** 3/29/2003
Client Sample ID: 13674 (03, 8th Floor) **Matrix:** WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Lab ID: R03040083-19 **Collection Date:** 3/29/2003
Client Sample ID: 13675 (01, 9th Floor) **Matrix:** WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Lab ID: R03040083-20 **Collection Date:** 3/29/2003
Client Sample ID: 13676 (02, 9th Floor) **Matrix:** WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Qualifiers:
 BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



4418 Pottsville Pike Reading, PA 19605
(Tel) 610-921-8833 (Fax) 610-921-9667

INDUSTRIAL HYGIENE

•EPA PA-00136
 •AIHA ACCREDITATION NO. 100439
 •NC DENR 599

ENVIRONMENTAL TESTING

•NY DOH/NELAC 10908
 •PA DEP 05-353
 •NJ DEP PA020
 •CT DPH PH-0238

Date: 16-Apr-03

CLIENT: JLC Env. Consultants Inc.
Project: NYC DEP - Dioxin wipes

Lab Order: R03040083

Lab ID: R03040083-21 **Collection Date:** 3/29/2003
Client Sample ID: 13677 (03, 9th Floor) **Matrix:** WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Lab ID: R03040083-22 **Collection Date:** 3/29/2003
Client Sample ID: 13678 (01, 10th Floor) **Matrix:** WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Lab ID: R03040083-23 **Collection Date:** 3/29/2003
Client Sample ID: 13679 (02, 10th Floor) **Matrix:** WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Lab ID: R03040083-24 **Collection Date:** 3/29/2003
Client Sample ID: 13680 (03, 10th Floor) **Matrix:** WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Lab ID: R03040083-25 **Collection Date:** 3/29/2003
Client Sample ID: 13681 (01, 11th Floor Up) **Matrix:** WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIOXINS AND FURANS		SW8290				Analyst: SUB
TCDD/TCDF	See Attached				1	4/9/2003

Qualifiers:
 BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Page 5 of 6



4418 Pottsville Pike Reading, PA 19605
(Tel) 610-921-8833 (Fax) 610-921-9567

INDUSTRIAL HYGIENE

•EPA PA-00136
 •AIHA ACCREDITATION NO. 100439
 •NC DENR 599

ENVIRONMENTAL TESTING

•NY DOH/NELAC 10903
 •PA DEP 05-353
 •NJ DEP PA020
 •CT DPH PH-0238

Date: 16-Apr-03

CLIENT: JLC Env. Consultants Inc.
Project: NYC DEP - Dioxin wipes

Lab Order: R03040083

Lab ID: R03040083-26 **Collection Date:** 3/29/2003
Client Sample ID: 13682 (02, 11th Floor Up) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Lab ID: R03040083-27 **Collection Date:** 3/29/2003
Client Sample ID: 13683 (03, 11th Floor Up) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Lab ID: R03040083-28 **Collection Date:** 3/29/2003
Client Sample ID: 13684 (01, 11th Floor Down) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Lab ID: R03040083-29 **Collection Date:** 3/29/2003
Client Sample ID: 13685 (02, 11th Floor Down) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Lab ID: R03040083-30 **Collection Date:** 3/29/2003
Client Sample ID: 13686 (02, 11th Floor Down) **Matrix:** WIPE
Analyses **Result** **Limit Qual Units** **DF** **Date Analyzed**
DIOXINS AND FURANS **SW8290** **Analyst: SUB**
 TCDD/TCDF See Attached 1 4/9/2003

Qualifiers:
 BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

4/25/2003

PASC - Certificate of Analysis

Page 1 of 9

Client ID:		Method	Method		3rd
Lab No.:		Blank	Blank	%	Floor-01
PSC-Reading Lab ID:		013656 03	013656 03		013657 03
Date Sampled:		29-Mar-2003	29-Mar-2003	Recovery	R03040083-01
			M. Spike		29-Mar-2003
Component	MDL	Units			
			Unvalidated		
Total Tetrachlorodibenzofurans		pg	<1.2	1100	-
Total Pentachlorodibenzofurans		"	5.9	5700	-
Total Hexachlorodibenzofurans		"	3.0	9700	-
Total Heptachlorodibenzofurans		"	<4.4	4800	-
Octachlorodibenzofuran		"	12	4400	-
Total Tetrachlorodibenzo-p-dioxins		"	<1.4	960	-
Total Pentachlorodibenzo-p-dioxins		"	<1.6	2500	-
Total Hexachlorodibenzo-p-dioxins		"	4.4	7600	-
Total Heptachlorodibenzo-p-dioxins		"	7.3	2300	-
Octachlorodibenzo-p-dioxin		"	<12	5000	-
Internal Recoveries		%			
2,3,7,8-T4CDF-13C12			74	73	-
2,3,7,8-T4CDD-13C12			82	81	-
1,2,3,7,8-P5CDF-13C12			83	85	-
1,2,3,7,8-P5CDD-13C12			96	97	-
1,2,3,4,7,8-H6CDF-13C12			103	95	-
1,2,3,6,7,8-H6CDD-13C12			101	98	-
1,2,3,4,6,7,8-H7CDF-13C12			107	103	-
1,2,3,4,6,7,8-H7CDD-13C12			111	114	-
OCDD-13C12			102	107	-
2,3,7,8-Cl4-Dibenzofuran (DB5)		pg	<1.2	1100	108
2,3,7,8-Cl4-Dibenzo-p-dioxin		"	<1.4	960	96
1,2,3,7,8-Cl5-Dibenzofuran		"	2.3	2700	110
2,3,4,7,8-Cl5-Dibenzofuran		"	3.6	2900	118
1,2,3,7,8-Cl5-Dibenzo-p-dioxin		"	<1.6	2500	102
1,2,3,4,7,8-Cl6-Dibenzofuran		"	<2.7	2500	98
1,2,3,6,7,8-Cl6-Dibenzofuran		"	<2.7	2400	96
2,3,4,6,7,8-Cl6-Dibenzofuran		"	3.2	2500	99
1,2,3,7,8,9-Cl6-Dibenzofuran		"	<3.4	2300	94
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin		"	<2.8	2600	104
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin		"	4.4	2500	101
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin		"	<2.7	2500	98
1,2,3,4,6,7,8-Cl7-Dibenzofuran		"	<4.0	2500	99
1,2,3,4,7,8,9-Cl7-Dibenzofuran		"	<4.8	2300	94
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin		"	7.3	2300	92
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran		"	12	4400	88
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin		"	<12	5000	100
2,3,7,8-TCDF (DB225)		pg	-	-	-
Internal Recoveries		%			
2,3,7,8-TCDF-13C12			-	-	-

4/25/2003

PASC - Certificate of Analysis

Page 2 of 9

Component	MDL	Units	3rd	3rd	4th	4th
			Floor-02	Floor-03	Floor-01	Floor-02
			013658 03	013659 03	013660 03	013661 03
			R03040083-02	R03040083-03	R03040083-04	R03040083-05
Client ID:			29-Mar-2003	29-Mar-2003	29-Mar-2003	29-Mar-2003
Lab No.:						
PSC-Reading Lab ID:						
Date Sampled:						
Total Tetrachlorodibenzofurans	pg		<2.6	<1.8	<1.8	4.0
Total Pentachlorodibenzofurans	"		<4.3	<2.1	<4.1	<3.9
Total Hexachlorodibenzofurans	"		<1.7	<1.0	<1.2	<1.4
Total Heptachlorodibenzofurans	"		<4.4	<3.2	<1.8	<3.5
Octachlorodibenzofuran	"		2.6	2.3	<1.6	4.3
Total Tetrachlorodibenzo-p-dioxins	"		5.8	<1.8	<3.3	13
Total Pentachlorodibenzo-p-dioxins	"		<8.6	<1.5	<1.6	<5.2
Total Hexachlorodibenzo-p-dioxins	"		<11	<3.7	<2.8	<5.8
Total Heptachlorodibenzo-p-dioxins	"		5.1	4.5	<2.7	5.1
Octachlorodibenzo-p-dioxin	"		<17	8.6	<12	32
Internal Recoveries	%					
2,3,7,8-T4CDF-13C12			69	75	70	71
2,3,7,8-T4CDD-13C12			77	88	76	76
1,2,3,7,8-P5CDF-13C12			76	87	77	73
1,2,3,7,8-P5CDD-13C12			81	92	80	77
1,2,3,4,7,8-H6CDF-13C12			100	102	94	86
1,2,3,6,7,8-H6CDD-13C12			93	97	90	82
1,2,3,4,6,7,8-H7CDF-13C12			97	103	93	81
1,2,3,4,6,7,8-H7CDD-13C12			94	104	95	81
OCDD-13C12			77	90	85	65
2,3,7,8-Cl4-Dibenzofuran (DB5)	pg		<2.6	<1.8	<1.8	<4.0
2,3,7,8-Cl4-Dibenzo-p-dioxin	"		<3.9	<1.8	<3.3	<2.6
1,2,3,7,8-Cl5-Dibenzofuran	"		<4.2	<2.1	<4.0	<3.8
2,3,4,7,8-Cl5-Dibenzofuran	"		<4.3	<2.2	<4.1	<3.9
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	"		<3.1	<1.5	<1.6	<3.4
1,2,3,4,7,8-Cl6-Dibenzofuran	"		<1.5	1.2	<1.1	1.8
1,2,3,6,7,8-Cl6-Dibenzofuran	"		<1.5	1.00	<1.1	<1.3
2,3,4,6,7,8-Cl6-Dibenzofuran	"		<1.8	<1.1	<1.3	<1.5
1,2,3,7,8,9-Cl6-Dibenzofuran	"		<1.9	<1.2	<1.4	<1.6
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	"		<2.2	<1.4	<1.6	<2.2
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	"		<2.2	<1.4	<1.6	<2.2
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	"		<2.1	<1.3	<1.6	<2.1
1,2,3,4,6,7,8-Cl7-Dibenzofuran	"		<3.9	<2.9	<1.6	<3.1
1,2,3,4,7,8,9-Cl7-Dibenzofuran	"		<1.6	<1.5	<1.2	<1.3
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	"		5.1	2.8	<2.7	5.1
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	"		2.6	2.3	<1.6	4.3
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	"		<17	8.6	<12	32
2,3,7,8-TCDF (DB225)	pg		-	-	-	<2.9
Internal Recoveries	%					
2,3,7,8-TCDF-13C12			-	-	-	84

4/25/2003

PASC - Certificate of Analysis

Page 3 of 9

Component	Client ID: 4th Floor-03 Lab No.: 013662 03 PSC-Reading Lab ID: R03040083-06 Date Sampled: 29-Mar-2003				5th Floor-01 013663 03 R03040083-07 29-Mar-2003	5th Floor-02 013664 03 R03040083-08 29-Mar-2003	5th Floor-03 013665 03 R03040083-09 29-Mar-2003
	MDL	Units					
	Total Tetrachlorodibenzofurans	pg	<1.5	<1.4	<1.4	<2.1	
	Total Pentachlorodibenzofurans	"	<3.2	<2.0	1.9	<1.8	
	Total Hexachlorodibenzofurans	"	<1.2	<1.1	<1.4	<1.3	
Total Heptachlorodibenzofurans	"	<2.4	<1.9	<1.5	<2.1		
Octachlorodibenzofuran	"	2.7	<2.0	<2.0	3.5		
Total Tetrachlorodibenzo-p-dioxins	"	<2.3	<1.4	<1.7	2.5		
Total Pentachlorodibenzo-p-dioxins	"	<3.3	<1.5	<1.7	<2.0		
Total Hexachlorodibenzo-p-dioxins	"	<2.3	<1.5	<3.8	<1.9		
Total Heptachlorodibenzo-p-dioxins	"	1.9	2.4	<3.0	11		
Octachlorodibenzo-p-dioxin	"	13	7.0	6.6	62		
Internal Recoveries	%						
2,3,7,8-T4CDF-13C12		75	77	67	75		
2,3,7,8-T4CDD-13C12		83	84	77	81		
1,2,3,7,8-P5CDF-13C12		79	79	71	75		
1,2,3,7,8-P5CDD-13C12		88	85	78	79		
1,2,3,4,7,8-H6CDF-13C12		98	107	90	93		
1,2,3,6,7,8-H6CDD-13C12		96	102	88	93		
1,2,3,4,6,7,8-H7CDF-13C12		101	105	92	89		
1,2,3,4,6,7,8-H7CDD-13C12		105	106	95	90		
OCDD-13C12		92	89	82	74		
2,3,7,8-Cl4-Dibenzofuran (DB5)	pg	<1.5	<1.4	<1.4	<2.1		
2,3,7,8-Cl4-Dibenzo-p-dioxin	"	<2.3	<1.4	<1.7	<2.1		
1,2,3,7,8-Cl5-Dibenzofuran	"	<3.1	<2.0	<1.3	<1.7		
2,3,4,7,8-Cl5-Dibenzofuran	"	<3.2	<2.0	1.9	<1.8		
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	"	<3.3	<1.5	<1.7	<2.0		
1,2,3,4,7,8-Cl6-Dibenzofuran	"	<1.1	<1.0	<1.3	<1.2		
1,2,3,6,7,8-Cl6-Dibenzofuran	"	<1.1	<1.0	<1.3	<1.2		
2,3,4,6,7,8-Cl6-Dibenzofuran	"	<1.3	<1.2	<1.5	<1.4		
1,2,3,7,8,9-Cl6-Dibenzofuran	"	<1.4	<1.3	<1.7	<1.5		
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	"	<1.8	<1.5	<1.6	<1.9		
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	"	<1.8	<1.5	<1.6	<1.9		
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	"	<1.7	<1.4	<1.5	<1.8		
1,2,3,4,6,7,8-Cl7-Dibenzofuran	"	<2.1	<1.7	<1.5	<2.1		
1,2,3,4,7,8,9-Cl7-Dibenzofuran	"	<1.4	<2.2	<1.4	<1.5		
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	"	<2.6	2.4	<3.0	7.0		
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	"	2.7	<2.0	<2.0	3.5		
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	"	13	7.0	6.6	62		
2,3,7,8-TCDF (DB225)	pg	-	-	-	-		
Internal Recoveries	%						
2,3,7,8-TCDF-13C12		-	-	-	-		

4/25/2003

PASC - Certificate of Analysis

Page 4 of 9

Component	<i>Client ID:</i>		6th	6th	6th	7th
	<i>Lab No.:</i>		Floor-01	Floor-02	Floor-03	Floor-01
	<i>PSC-Reading Lab ID:</i>		013666 03	013667 03	013668 03	013669 03
	<i>Date Sampled:</i>		R03040083-10	R03040083-11	R03040083-12	R03040083-13
			29-Mar-2003	29-Mar-2003	29-Mar-2003	29-Mar-2003
	MDL	Units				
Total Tetrachlorodibenzofurans		pg	40	<1.3	<1.7	<3.8
Total Pentachlorodibenzofurans		"	18	<1.9	<2.0	<4.9
Total Hexachlorodibenzofurans		"	2.1	<1.1	<1.1	<1.7
Total Heptachlorodibenzofurans		"	<3.2	<1.4	<1.5	<2.1
Octachlorodibenzofuran		"	15	<3.4	<2.0	3.9
Total Tetrachlorodibenzo-p-dioxins		"	6.1	<1.8	<1.3	10.0
Total Pentachlorodibenzo-p-dioxins		"	<1.4	<1.6	<1.8	<3.5
Total Hexachlorodibenzo-p-dioxins		"	<1.4	<1.2	<4.4	<5.5
Total Heptachlorodibenzo-p-dioxins		"	2.8	<2.1	2.6	6.7
Octachlorodibenzo-p-dioxin		"	8.9	5.5	5.2	20
Internal Recoveries		%				
2,3,7,8-T4CDF-13C12			76	72	72	62
2,3,7,8-T4CDD-13C12			81	78	82	69
1,2,3,7,8-P5CDF-13C12			77	79	79	70
1,2,3,7,8-P5CDD-13C12			86	84	87	78
1,2,3,4,7,8-H6CDF-13C12			94	92	102	90
1,2,3,6,7,8-H6CDD-13C12			92	92	101	90
1,2,3,4,6,7,8-H7CDF-13C12			92	94	104	90
1,2,3,4,6,7,8-H7CDD-13C12			95	100	107	91
OCDD-13C12			78	87	90	74
2,3,7,8-Cl4-Dibenzofuran (DB5)		pg	38	<1.3	<1.7	<3.8
2,3,7,8-Cl4-Dibenzo-p-dioxin		"	6.1	<1.8	<1.3	<4.2
1,2,3,7,8-Cl5-Dibenzofuran		"	5.6	<1.8	<2.0	<4.9
2,3,4,7,8-Cl5-Dibenzofuran		"	12	<1.9	<2.1	<5.0
1,2,3,7,8-Cl5-Dibenzo-p-dioxin		"	<1.4	<1.6	<1.8	<3.5
1,2,3,4,7,8-Cl6-Dibenzofuran		"	2.1	<0.98	<1.0	<1.5
1,2,3,6,7,8-Cl6-Dibenzofuran		"	<1.3	<0.97	<0.99	<1.5
2,3,4,6,7,8-Cl6-Dibenzofuran		"	<1.5	<1.2	<1.2	<1.8
1,2,3,7,8,9-Cl6-Dibenzofuran		"	<1.6	<1.2	<1.3	<1.9
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin		"	<1.5	<1.2	<1.5	<2.1
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin		"	<1.5	<1.2	<1.5	<2.1
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin		"	<1.4	<1.2	<1.4	<2.0
1,2,3,4,6,7,8-Cl7-Dibenzofuran		"	<3.2	<1.2	<1.3	<1.9
1,2,3,4,7,8,9-Cl7-Dibenzofuran		"	<1.5	<1.6	<1.7	<1.7
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin		"	2.8	<2.1	2.6	4.2
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran		"	15	<3.4	<2.0	3.9
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin		"	8.9	5.5	5.2	20
2,3,7,8-TCDF (DB225)		pg	<4.9	-	-	-
Internal Recoveries		%				
2,3,7,8-TCDF-13C12			74	-	-	-

4/25/2003

PASC - Certificate of Analysis

Page 5 of 9

		7th	7th	8th	8th
Client ID:		Floor-02	Floor-03	Floor-01	Floor-02
Lab No.:		013670 03	013671 03	013672 03	013673 03
PSC-Reading Lab ID:		R03040083-14	R03040083-15	R03040083-16	R03040083-17
Date Sampled:		29-Mar-2003	29-Mar-2003	29-Mar-2003	29-Mar-2003
Component	MDL Units				
Total Tetrachlorodibenzofurans	pg	<2.1	<1.7	<3.9	<2.1
Total Pentachlorodibenzofurans	"	<3.6	<2.2	<3.6	<4.5
Total Hexachlorodibenzofurans	"	<1.3	<1.1	<1.7	<1.5
Total Heptachlorodibenzofurans	"	<1.8	<1.3	<2.7	<3.5
Octachlorodibenzofuran	"	<2.0	<1.4	4.3	<3.2
Total Tetrachlorodibenzo-p-dioxins	"	<2.6	<1.6	13	<2.7
Total Pentachlorodibenzo-p-dioxins	"	<2.5	<2.3	<3.5	<3.6
Total Hexachlorodibenzo-p-dioxins	"	<3.0	<1.5	<5.2	<6.9
Total Heptachlorodibenzo-p-dioxins	"	3.3	<1.7	4.5	8.0
Octachlorodibenzo-p-dioxin	"	7.9	<4.3	24	16
Internal Recoveries	%				
2,3,7,8-T4CDF-13C12		53	58	64	70
2,3,7,8-T4CDD-13C12		61	67	71	76
1,2,3,7,8-P5CDF-13C12		68	75	73	78
1,2,3,7,8-P5CDD-13C12		76	86	82	85
1,2,3,4,7,8-H6CDF-13C12		89	97	82	88
1,2,3,6,7,8-H6CDD-13C12		83	96	82	90
1,2,3,4,6,7,8-H7CDF-13C12		87	101	84	91
1,2,3,4,6,7,8-H7CDD-13C12		89	105	85	94
OCDD-13C12		77	91	68	83
2,3,7,8-Cl4-Dibenzofuran (DB5)	pg	<2.1	<1.7	<3.9	<2.1
2,3,7,8-Cl4-Dibenzo-p-dioxin	"	<2.6	<1.6	<4.2	<2.7
1,2,3,7,8-Cl5-Dibenzofuran	"	<3.6	<2.2	<3.6	<4.4
2,3,4,7,8-Cl5-Dibenzofuran	"	<3.7	<2.3	<3.6	<4.5
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	"	<2.5	<2.3	<3.5	<3.6
1,2,3,4,7,8-Cl6-Dibenzofuran	"	<1.2	<1.00	<1.6	<1.4
1,2,3,6,7,8-Cl6-Dibenzofuran	"	<1.2	<0.99	<1.6	<1.3
2,3,4,6,7,8-Cl6-Dibenzofuran	"	<1.4	<1.2	<1.9	<1.6
1,2,3,7,8,9-Cl6-Dibenzofuran	"	<1.5	<1.2	<2.0	<1.7
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	"	<1.9	<1.5	<2.4	<1.7
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	"	<1.9	<1.5	<2.4	<1.7
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	"	<1.8	<1.5	<2.3	<1.6
1,2,3,4,6,7,8-Cl7-Dibenzofuran	"	<1.6	<1.2	<2.4	<3.1
1,2,3,4,7,8,9-Cl7-Dibenzofuran	"	<1.4	<1.3	<1.4	<1.5
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	"	3.3	<1.7	4.5	4.9
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	"	<2.0	<1.4	4.3	<3.2
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	"	7.9	<4.3	24	16
2,3,7,8-TCDF (DB225)	pg	-	-	-	-
Internal Recoveries	%				
2,3,7,8-TCDF-13C12		-	-	-	-

4/25/2003

PASC - Certificate of Analysis

Page 6 of 9

Component	<i>Client ID:</i>		8th	9th	9th	9th
	<i>Lab No.:</i>		Floor-03	Floor-01	Floor-02	Floor-03
	<i>PSC-Reading Lab ID:</i>		013674 03	013675 03	013676 03	013677 03
	<i>Date Sampled:</i>		R03040083-18	R03040083-19	R03040083-20	R03040083-21
	MDL	Units	29-Mar-2003	29-Mar-2003	29-Mar-2003	29-Mar-2003
Total Tetrachlorodibenzofurans	pg	<2.9	9.6	5.1	3.3	
Total Pentachlorodibenzofurans	"	<3.6	<7.5	<3.9	13	
Total Hexachlorodibenzofurans	"	<1.4	<3.8	2.5	8.3	
Total Heptachlorodibenzofurans	"	<1.5	4.6	<5.4	<3.5	
Octachlorodibenzofuran	"	<1.9	950	5.1	4.1	
Total Tetrachlorodibenzo-p-dioxins	"	<2.5	37	7.3	26	
Total Pentachlorodibenzo-p-dioxins	"	<3.6	<14	<6.0	12	
Total Hexachlorodibenzo-p-dioxins	"	<4.9	3.3	16	18	
Total Heptachlorodibenzo-p-dioxins	"	<2.6	20	5.8	<4.5	
Octachlorodibenzo-p-dioxin	"	7.0	61	27	13	
Internal Recoveries	%					
2,3,7,8-T4CDF-13C12		76	77	73	83	
2,3,7,8-T4CDD-13C12		77	81	80	92	
1,2,3,7,8-P5CDF-13C12		79	73	79	87	
1,2,3,7,8-P5CDD-13C12		84	80	87	94	
1,2,3,4,7,8-H6CDF-13C12		91	76	87	103	
1,2,3,6,7,8-H6CDD-13C12		87	80	85	101	
1,2,3,4,6,7,8-H7CDF-13C12		90	70	85	102	
1,2,3,4,6,7,8-H7CDD-13C12		90	67	86	105	
OCDD-13C12		76	51	71	88	
2,3,7,8-Cl4-Dibenzofuran (DB5)	pg	<2.9	<9.5	5.1	<3.8	
2,3,7,8-Cl4-Dibenzo-p-dioxin	"	<2.5	<4.4	<4.2	<1.7	
1,2,3,7,8-Cl5-Dibenzofuran	"	<3.6	<7.5	<3.9	<1.4	
2,3,4,7,8-Cl5-Dibenzofuran	"	<3.7	<7.6	<4.0	2.5	
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	"	<3.6	<5.4	<5.7	<1.5	
1,2,3,4,7,8-Cl6-Dibenzofuran	"	<1.3	<2.3	2.5	2.0	
1,2,3,6,7,8-Cl6-Dibenzofuran	"	<1.2	<2.3	<1.3	1.7	
2,3,4,6,7,8-Cl6-Dibenzofuran	"	<1.5	<2.7	<1.5	1.8	
1,2,3,7,8,9-Cl6-Dibenzofuran	"	<1.6	<2.9	<1.6	<1.5	
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	"	<2.2	<2.4	<2.3	<1.4	
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	"	<2.2	<2.4	<2.3	1.6	
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	"	<2.1	<2.3	<2.2	<1.6	
1,2,3,4,6,7,8-Cl7-Dibenzofuran	"	<1.4	<52	<4.7	<3.2	
1,2,3,4,7,8,9-Cl7-Dibenzofuran	"	<1.8	<4.1	<1.5	<2.5	
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	"	<2.6	11	<6.0	<4.5	
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	"	<1.9	950	10	4.1	
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	"	7.0	61	27	13	
2,3,7,8-TCDF (DB225)	pg	-	<5.2	<6.5	<5.5	
Internal Recoveries	%					
2,3,7,8-TCDF-13C12		-	77	76	88	

Client:Philip Analytical Services Inc Project:JLC Environmental

4/25/2003

PASC - Certificate of Analysis

Page 7 of 9

Component			10th	10th	10th	11th Floor
	Client ID:		Floor-01	Floor-02	Floor-03	Up-01
	Lab No.:		013678 03	013679 03	013680 03	013681 03
	PSC-Reading Lab ID:		R03040083-22	R03040083-23	R03040083-24	R03040083-25
	Date Sampled:		29-Mar-2003	29-Mar-2003	29-Mar-2003	29-Mar-2003
	MDL	Units				
Total Tetrachlorodibenzofurans	pg		<3.3	2.7	<1.1	3.0
Total Pentachlorodibenzofurans	"		<1.9	<2.5	<2.1	<3.2
Total Hexachlorodibenzofurans	"		<2.5	<2.4	<2.6	<2.6
Total Heptachlorodibenzofurans	"		<4.2	<5.5	<2.1	<2.5
Octachlorodibenzofuran	"		8.3	7.0	<2.6	7.3
Total Tetrachlorodibenzo-p-dioxins	"		10	4.8	2.2	15
Total Pentachlorodibenzo-p-dioxins	"		<5.9	5.5	<1.5	<3.1
Total Hexachlorodibenzo-p-dioxins	"		<4.7	3.0	<2.6	<2.7
Total Heptachlorodibenzo-p-dioxins	"		<5.3	6.0	3.0	12
Octachlorodibenzo-p-dioxin	"		<17	15	7.3	46
Internal Recoveries	%					
2,3,7,8-T4CDF-13C12			77	80	80	81
2,3,7,8-T4CDD-13C12			86	97	86	88
1,2,3,7,8-P5CDF-13C12			77	86	88	78
1,2,3,7,8-P5CDD-13C12			81	99	102	86
1,2,3,4,7,8-H6CDF-13C12			93	117	111	94
1,2,3,6,7,8-H6CDD-13C12			88	112	106	92
1,2,3,4,6,7,8-H7CDF-13C12			94	120	115	96
1,2,3,4,6,7,8-H7CDD-13C12			94	125	122	95
OCDD-13C12			83	108	114	76
2,3,7,8-Cl4-Dibenzofuran (DB5)	pg		<3.3	<2.7	<1.1	<3.8
2,3,7,8-Cl4-Dibenzo-p-dioxin	"		<3.9	<1.4	<1.9	<3.4
1,2,3,7,8-Cl5-Dibenzofuran	"		<1.9	<2.2	<2.1	<3.1
2,3,4,7,8-Cl5-Dibenzofuran	"		<2.0	<2.5	<2.2	<3.2
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	"		<2.1	<2.4	<1.5	<3.1
1,2,3,4,7,8-Cl6-Dibenzofuran	"		<2.3	<2.2	<2.4	<2.4
1,2,3,6,7,8-Cl6-Dibenzofuran	"		<2.3	<2.2	<2.4	<2.4
2,3,4,6,7,8-Cl6-Dibenzofuran	"		<2.7	<2.5	<2.8	<2.8
1,2,3,7,8,9-Cl6-Dibenzofuran	"		<2.9	<2.8	<3.0	<3.0
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	"		<2.7	<2.8	<2.6	<2.7
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	"		<2.7	<2.8	<2.6	<2.7
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	"		<2.6	3.0	<2.5	<2.6
1,2,3,4,6,7,8-Cl7-Dibenzofuran	"		<3.9	<5.1	<2.0	<4.7
1,2,3,4,7,8,9-Cl7-Dibenzofuran	"		<3.2	<3.2	<2.3	<2.8
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	"		<5.3	6.0	3.0	6.3
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	"		8.3	7.0	<2.6	7.3
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	"		<17	15	7.3	46
2,3,7,8-TCDF (DB225)	pg		-	<4.4	-	<4.1
Internal Recoveries	%					
2,3,7,8-TCDF-13C12			-	95	-	86

4/25/2003

PASC - Certificate of Analysis

Page 8 of 9

Component			11th Floor	11th Floor	11th Floor	11th Floor
	Client ID:		Up-02	Up-03	Down-01	Down-02
	Lab No.:		013682 03	013683 03	013684 03	013685 03
	PSC-Reading Lab ID:		R03040083-26	R03040083-27	R03040083-28	R03040083-29
		Date Sampled:	29-Mar-2003	29-Mar-2003	29-Mar-2003	29-Mar-2003
	MDL	Units				
Total Tetrachlorodibenzofurans		pg	<1.3	<1.5	6.0	<1.7
Total Pentachlorodibenzofurans		"	<2.8	<2.6	<2.8	<2.6
Total Hexachlorodibenzofurans		"	<2.4	<1.8	<1.9	<1.7
Total Heptachlorodibenzofurans		"	<2.5	<2.3	<3.0	<1.4
Octachlorodibenzofuran		"	3.1	<2.3	<4.8	<2.2
Total Tetrachlorodibenzo-p-dioxins		"	<2.1	<2.7	31	<3.0
Total Pentachlorodibenzo-p-dioxins		"	<2.2	<2.2	<12	<2.0
Total Hexachlorodibenzo-p-dioxins		"	<2.6	<1.8	11	<4.2
Total Heptachlorodibenzo-p-dioxins		"	3.9	<3.1	4.4	3.7
Octachlorodibenzo-p-dioxin		"	9.4	7.1	29	<9.7
Internal Recoveries		%				
2,3,7,8-T4CDF-13C12			81	74	87	78
2,3,7,8-T4CDD-13C12			88	81	84	86
1,2,3,7,8-P5CDF-13C12			90	81	83	86
1,2,3,7,8-P5CDD-13C12			105	88	87	96
1,2,3,4,7,8-H6CDF-13C12			104	101	99	105
1,2,3,6,7,8-H6CDD-13C12			102	97	93	101
1,2,3,4,6,7,8-H7CDF-13C12			111	94	90	103
1,2,3,4,6,7,8-H7CDD-13C12			118	89	84	104
OCDD-13C12			118	72	65	85
2,3,7,8-Cl4-Dibenzofuran (DB5)		pg	<1.3	<1.5	<6.0	<1.7
2,3,7,8-Cl4-Dibenzo-p-dioxin		"	<2.1	<2.7	<3.3	<3.0
1,2,3,7,8-Cl5-Dibenzofuran		"	<2.7	<2.6	<2.8	<2.5
2,3,4,7,8-Cl5-Dibenzofuran		"	<2.9	<2.7	<2.9	<2.6
1,2,3,7,8-Cl5-Dibenzo-p-dioxin		"	<1.4	<2.2	<3.7	<2.0
1,2,3,4,7,8-Cl6-Dibenzofuran		"	<2.2	<1.6	<1.7	<1.6
1,2,3,6,7,8-Cl6-Dibenzofuran		"	<2.2	<1.6	<1.7	<1.6
2,3,4,6,7,8-Cl6-Dibenzofuran		"	<2.6	<1.9	<2.1	<1.9
1,2,3,7,8,9-Cl6-Dibenzofuran		"	<2.8	<2.0	<2.2	<2.0
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin		"	<2.7	<1.8	<2.1	<2.5
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin		"	<2.7	<1.8	<2.1	<2.4
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin		"	<2.6	<1.7	<2.0	<2.3
1,2,3,4,6,7,8-Cl7-Dibenzofuran		"	<2.3	<2.0	<3.0	<1.2
1,2,3,4,7,8,9-Cl7-Dibenzofuran		"	<2.5	<2.6	<2.4	<1.6
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin		"	3.9	<3.1	4.4	3.7
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran		"	3.1	<2.3	<4.8	<2.2
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin		"	9.4	7.1	29	<9.7
2,3,7,8-TCDF (DB225)		pg	-	-	<4.5	-
Internal Recoveries		%				
2,3,7,8-TCDF-13C12			-	-	93	-

4/25/2003

PASC - Certificate of Analysis

Page 9 of 9

Client ID: 11th Floor
Lab No.: Down-03
PSC-Reading Lab ID: 013686 03
Date Sampled: R03040083-30
29-Mar-2003

Component	MDL	Units
Total Tetrachlorodibenzofurans	pg	<2.4
Total Pentachlorodibenzofurans	"	<3.0
Total Hexachlorodibenzofurans	"	<1.8
Total Heptachlorodibenzofurans	"	<2.2
Octachlorodibenzofuran	"	3.2
Total Tetrachlorodibenzo-p-dioxins	"	<3.8
Total Pentachlorodibenzo-p-dioxins	"	<2.7
Total Hexachlorodibenzo-p-dioxins	"	<7.3
Total Heptachlorodibenzo-p-dioxins	"	<2.5
Octachlorodibenzo-p-dioxin	"	12
Internal Recoveries	%	
2,3,7,8-T4CDF-13C12		83
2,3,7,8-T4CDD-13C12		86
1,2,3,7,8-P5CDF-13C12		86
1,2,3,7,8-P5CDD-13C12		96
1,2,3,4,7,8-H6CDF-13C12		107
1,2,3,6,7,8-H6CDD-13C12		101
1,2,3,4,6,7,8-H7CDF-13C12		101
1,2,3,4,6,7,8-H7CDD-13C12		102
OCDD-13C12		80
2,3,7,8-Cl4-Dibenzofuran (DB5)	pg	<2.4
2,3,7,8-Cl4-Dibenzo-p-dioxin	"	<3.8
1,2,3,7,8-Cl5-Dibenzofuran	"	<2.9
2,3,4,7,8-Cl5-Dibenzofuran	"	<3.0
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	"	<2.7
1,2,3,4,7,8-Cl6-Dibenzofuran	"	<1.6
1,2,3,6,7,8-Cl6-Dibenzofuran	"	<1.6
2,3,4,6,7,8-Cl6-Dibenzofuran	"	<1.9
1,2,3,7,8,9-Cl6-Dibenzofuran	"	<2.0
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	"	<2.6
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	"	<2.5
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	"	<2.4
1,2,3,4,6,7,8-Cl7-Dibenzofuran	"	<2.2
1,2,3,4,7,8,9-Cl7-Dibenzofuran	"	<2.4
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	"	<2.0
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	"	3.2
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	"	12
2,3,7,8-TCDF (DB225)	pg	-
Internal Recoveries	%	
2,3,7,8-TCDF-13C12		-

Lab ID	PSC-Reading Lab ID	Client ID	TEQ (pg)	MAX (pg)	TEQ ND = 1/2 (pg)
13656		Method Blank	2.783	6.657	4.720
13657	R03040083-01	3rd Floor-01	0.092	6.618	3.352
13658	R03040083-02	3rd Floor-02	0.054	9.557	4.805
13659	R03040083-03	3rd Floor-03	0.258	4.849	2.554
13660	R03040083-04	4th Floor-01	0.000	7.553	3.776
13661	R03040083-05	4th Floor-02	0.269	8.236	4.253
13662	R03040083-06	4th Floor-03	0.016	6.911	3.463
13663	R03040083-07	5th Floor-01	0.031	4.308	2.169
13664	R03040083-08	5th Floor-02	0.961	4.852	2.906
13665	R03040083-09	5th Floor-03	0.135	5.489	2.812
13666	R03040083-10	6th Floor-01	16.594	18.230	17.412
13667	R03040083-11	6th Floor-02	0.006	4.651	2.328
13668	R03040083-12	6th Floor-03	0.032	4.505	2.268
13669	R03040083-13	7th Floor-01	0.066	10.474	5.270
13670	R03040083-14	7th Floor-02	0.041	7.274	3.657
13671	R03040083-15	7th Floor-03	0	5.087	2.543
13672	R03040083-16	8th Floor-01	0.074	9.887	4.980
13673	R03040083-17	8th Floor-02	0.065	8.362	4.213
13674	R03040083-18	8th Floor-03	0.007	7.874	3.940
13675	R03040083-19	9th Floor-01	1.124	15.623	8.373
13676	R03040083-20	9th Floor-02	0.795	11.252	6.024
13677	R03040083-21	9th Floor-03	1.984	5.42	3.702
13678	R03040083-22	10th Floor-01	0.008	8.314	4.161
13679	R03040083-23	10th Floor-02	0.378	6.215	3.296
13680	R03040083-24	10th Floor-03	0.037	5.913	2.975
13681	R03040083-25	11th Floor Up-01	0.117	9.117	4.617
13682	R03040083-26	11th Floor Up-02	0.052	6.416	3.234
13683	R03040083-27	11th Floor Up-03	0.007	6.704	3.356
13684	R03040083-28	11th Floor Down-01	0.073	8.898	4.485
13685	R03040083-29	11th Floor Down-02	0.037	7.061	3.549
13686	R03040083-30	11th Floor Down-03	0.015	8.545	4.280