

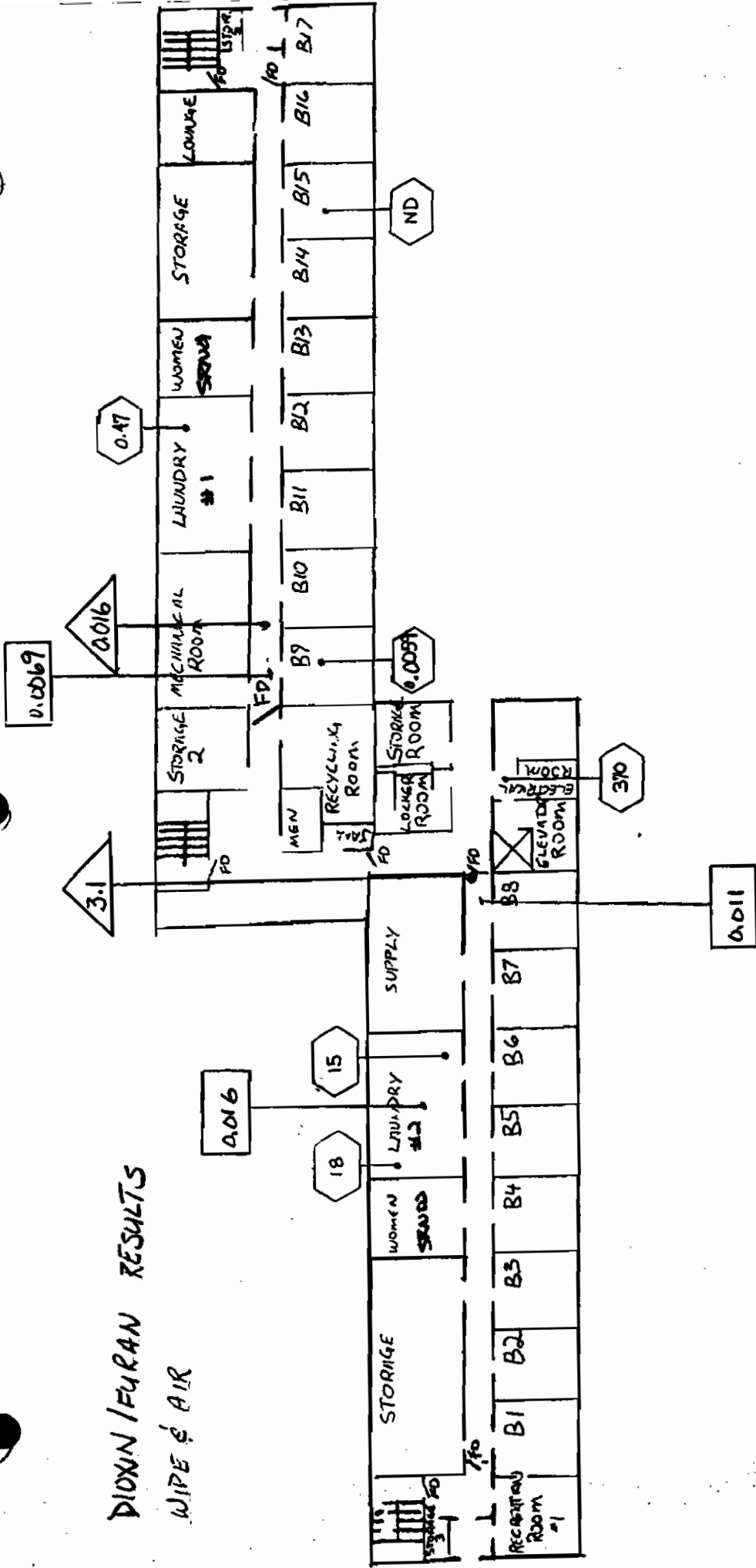
DIOXIN/FURAN SAMPLES- WIPES (ng/square meter)

(Results given are 2378-TCDD equivalences.)

<u>LOCATION</u>	<u>ID #</u>	<u>DATE</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>COMMENTS</u>
BLISS (30 CM X 30 CM)	D-1	01/01/92	WIPE	370	<u>BASEMENT HALLWAY OUTSIDE VAULT AND ELECTRIC ROOM</u>
BLISS (1 M X 1 M)	2241092-B9	04/10/92	WIPE	0.0059	<u>RM B9-RIGHT WALL</u>
BLISS (30 CM X 30 CM)	22B11192-8	01/11/92	WIPE	N/D	<u>RM B15- LEFT DESK CENTER</u>
BLISS (30 CM X 30CM)	2012192DF	01/20/92	WIPE	18	<u>LAUNDRY RM#2- ON WASHER</u>
BLISS (1 M X 1 M)	2241092-L	04/10/92	WIPE	0.47	<u>LAUNDRY#1-BASEMENT WASHING MACHINE</u>
BLISS (30 CM X 30 CM)	22B11192-7	01/11/92	WIPE	15	<u>LAUNDRY #2- (BASEMENT)ON FAR RT</u>
BLISS (1 M X 1 M)	2211592 LAUN 2 DF	11/05/92	WIPE	0.016	<u>LAUNDRY #2 WALL BETWEEN WASHING MACHINES</u>
BLISS (1 M X 1 M)	2211492-NISOL DF	11/04/92	WIPE	0.011	<u>NORTH ISOLATION-WALL</u>
BLISS (1 M X 1 M)	2211492-SISOL DF	11/04/92	WIPE	0.0069	<u>SOUTH ISOLATION-WALL</u>
BLISS (30 CM X 30 CM)	22111192-2	01/11/92	WIPE	N/D	<u>RM 102- LEFT DESK CENTER</u>
BLISS (1 M X 1 M)	2232092-112	03/20/92	WIPE	0.0091	<u>RM 112-WALL IN CLOSET</u>
BLISS (1 M X 1 M)	2241092-115	04/10/92	WIPE	0.0106	<u>RM 115-WALL</u>
BLISS (30 CM X 30 CM)	22111192-1	01/11/92	WIPE	N/D	<u>RM 120- RT DESK CENTER</u>
BLISS (1 M X 1 M)	2232092-125	03/20/92	WIPE	0.011	<u>RM 125-RIGHT WALL</u>
BLISS (1 M X 1 M)	2232092-125	03/20/92	WIPE	0.0077	<u>RM 125- WALL (RE-ANALYSIS)</u>
BLISS (1 M X 1 M)	2241092-DIRA	04/10/92	WIPE	0.0014	<u>DIRECTORS LIVING ROOM WALL (RM 126)</u>
BLISS (1 M X 1 M)	2232092-LOUNGE	03/20/92	WIPE	0.023	<u>1ST FL LOUNGE-WALL NEAR DOOR</u>

BLISS 22111192-4 (30 CM X 30 CM)	01/11/92	WIPE 3	<u>RM 205-</u> <u>LEFT DESK</u>
BLISS 2231692DF (1 M X 1 M)	03/16/92	WIPE 0.015	<u>RM 214-2ND FLOOR</u>
BLISS 2232092-214 (1 M X 1 M)	03/20/92	WIPE 0.057	<u>RM 214-LEFT WALL</u>
BLISS 2232092-214 (1 M X 1 M)	03/20/92	WIPE 0.063	<u>RM 214-WALL</u> (RE-ANALYSIS)
BLISS 2232092-218 (1 M X 1 M)	03/20/92	WIPE .013	<u>RM 218-RIGHT WALL</u>
BLISS 2241092-226 (1 M X 1 M)	04/10/92	WIPE 0.0151	<u>RM 226-WALL</u>
BLISS 22111192-3 (30 CM X 30 CM)	01/11/92	WIPE N/D	<u>RM 229-</u> <u>LEFT DESK</u>
BLISS 22311192-6 (30 CM X 30 CM)	01/11/92	WIPE 24	<u>RM 312-</u> <u>LEFT DESK CENTER</u>
BLISS 2211492-312 DF (1 M X 1 M)	11/04/92	WIPE 0.0003	<u>RM 312-WALL</u>
BLISS 2241092-321 (1 M X 1 M)	04/10/92	WIPE 0.057	<u>RM 321-BACK WALL</u>
BLISS 22311192-5 (30 CM X 30 CM)	01/11/92	WIPE 1	<u>RM 322-</u> <u>RT DESK CENTER</u>
BLISS 2241092-331 (1 M X 1 M)	04/10/92	WIPE 1.5	<u>RM 331-LEFT WALL</u>

DIOXIN/FURAN RESULTS
WIPE & AIR



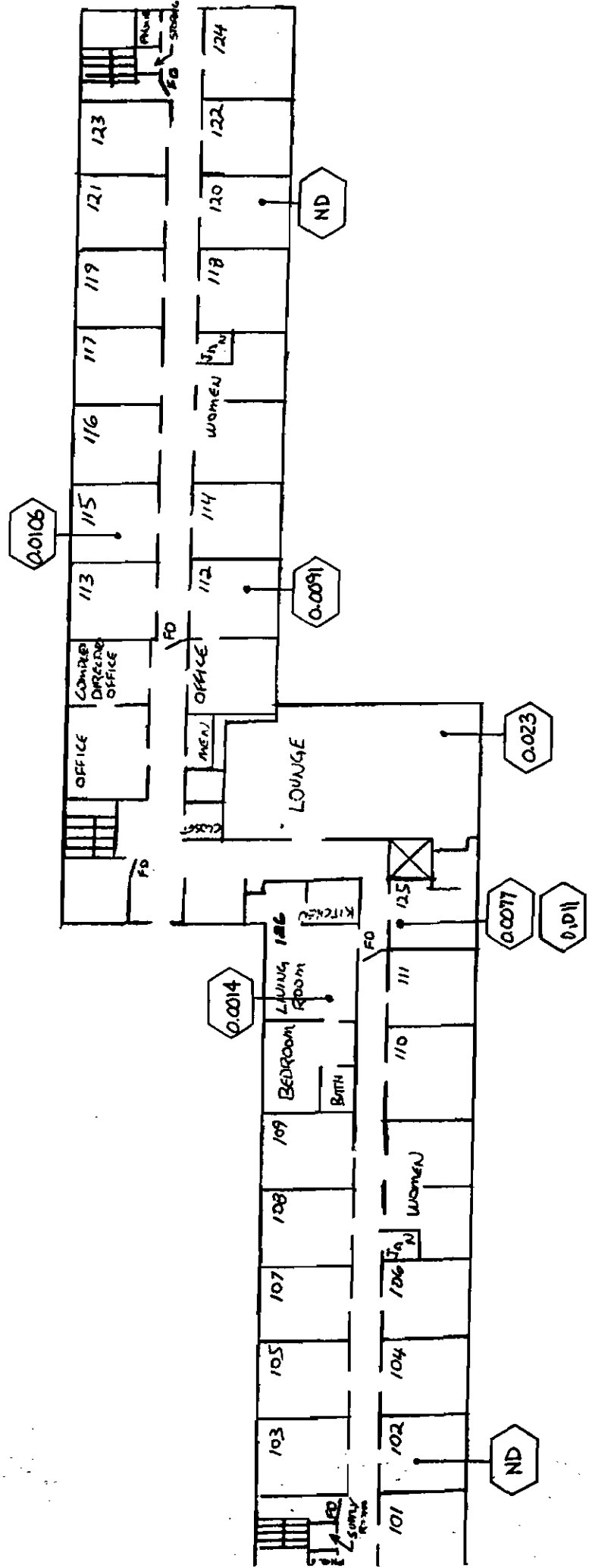
○ - PRE-CLEAN WIPE RESULT (ng/m²)

□ - POST CLEAN WIPE RESULT (ng/m²)

△ - POST CLEAN AIR RESULT (pg/m³)

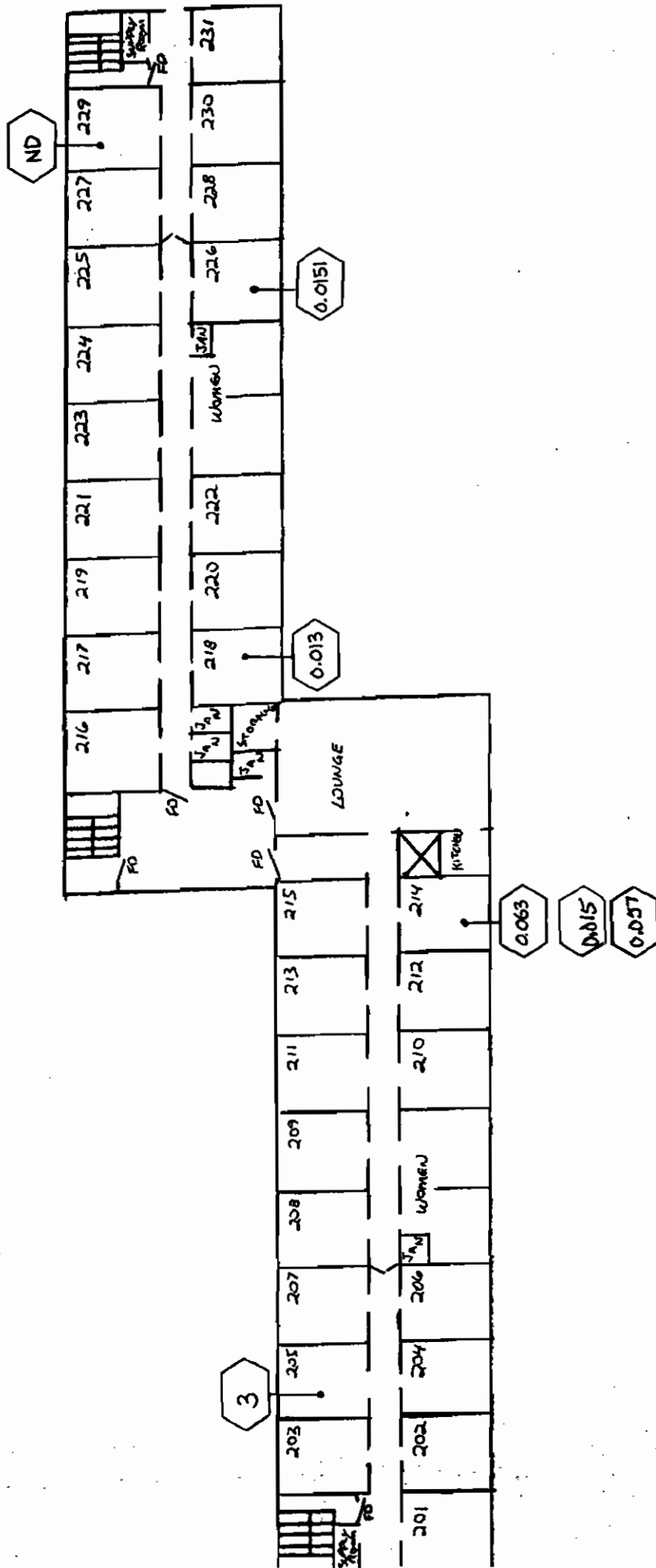
BLISS HALL
BASEMENT

(RESULTS GIVEN ARE 2518 TDD EQUIVALENCES)

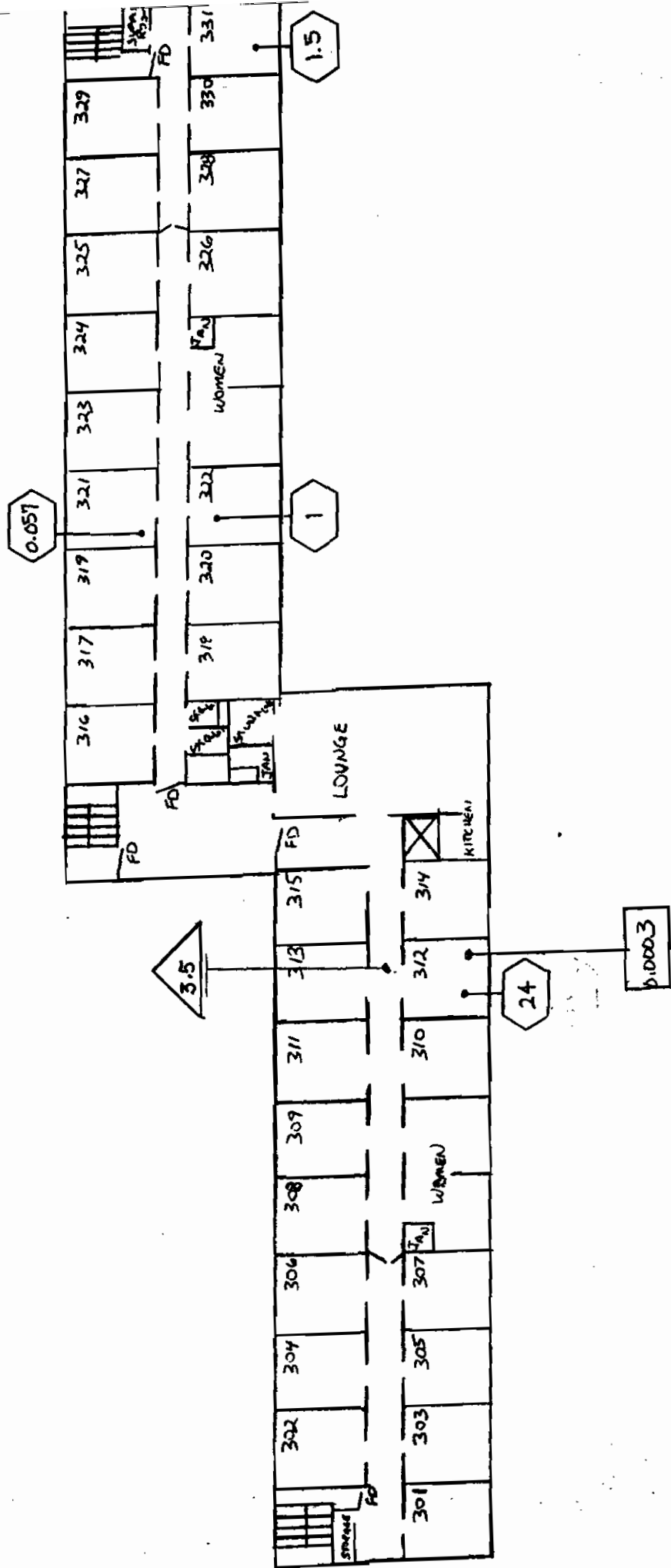


BLISS HALL

FIRST FLOOR



BLISS HALL
SECOND FLOOR



BLISS HALL
THIRD FLOOR

~~SECOND~~ FLOOR

	A	B	C	D	E	F	G	H	I
1	DOH ID	CHI No.	BUILDING	LEV.	ROOM	SURF.	PCBs	DIOXIN	Rept.
2	920017	D-1	Bliss	B	hall	light	24	370	f,fr
3	920018	D-2	Coykend.	B	hall	contr.box	430	14	f,fr
4	920019	D-3	Scudder	B	vault	wind.sill	8300	230	f,fr
5	920020	A-1	Parker	1		table	5600*	-	f
6	920021	A-2	Bliss	B	hall	light	2.9	-	f
7	920022	A-3	Bliss	1	lounge	table	0.2	-	f
8	920023	A-4	Coykend.	B	hall	doortops	180*	-	f
9	920024	A-5	Coykend.	2	hall	fount. 204A	13	-	f
10	920025	A-6	Gage	3	hall	320 - table	0.26	-	f
11	920026	A-7	Gage	B	Rec.Rm.	TV	0.47	-	f
12	920027	A-8	Scudder	B	hall	light	2.6	-	f
13	920028	A-9	Scudder	1	lobby	table	0.68	-	f
14	920029		BLANK					run 2x	f
15	920031								
16	920032	SWS-22	Bliss				1100	-	f
17	920033	SWS-41	Coykend.				350	-	f
18	920034								
19	920039	0483010592	Old.Lib.	B		fixture	1.25	-	f
20	920040	2183010592	Gage		bath	ledge	1.7	-	f
21	920041	901010592	Capen			wind.sill	0.105	-	f
22	920042	19181692	Coykendl.				5.8	-	f
23	920043	19281692	Coykendl.				0.03	-	f
24	920044	20681792	Scudder				0.23	-	f
25	920045	20181792	Scudder				0.85*	-	f
26	920046	20281792	Scudder				0.1	-	f
27	920047	20381792	Scudder				0.48	-	f
28	920048	20181692	Scudder				0.94*	-	f
29	920049	20281692	Scudder				1.6	-	f
30	920050	20381692	Scudder				0.02	-	f
31	920051	20481692	Scudder				0.2	-	f
32	920052	8181692	Bouton				ND	-	f
33	920053	8281692	Bouton				ND	-	f
34	920054	8381692	Bouton				ND	-	f
35	920055	8881692	Bouton				0.014	-	f
36	920056	37181692	Bevier				0.04	-	f
37	920057	37181692	Bevier				ND	-	f
38	920058	37381692	Bevier				ND	-	f
39	920059	37881692	Bevier				0.01	-	f
40	920060	21181792	Gage				0.07	-	f
41	920061	21581792	Gage				0.01	-	f
42	920062	21281792	Gage				0.13	-	f
43	920063	21881792	Gage				0.05	-	f
44	920064	22381792	Bliss				1.4	-	f
45	920065	22181792	Bliss				210	-	f
46	920066	22581792	Bliss				0.11	-	f
47	920067	22481792	Bliss				1.2	-	f
48	920068	22681792	Bliss				5.7	-	f
49	920069	22281792	Bliss				44	-	f
50	920070								
51	920120	GAUZE	BLANK				ND	-	f
52	920163	E181892	Bardes		kitchen	AIR	ND	-	f
53	920164	26281892	Parker	SOIL		SOIL, ppm	10.8*	-	f
54	920165	9281892	Capen	B	B-8	floor	0.04	-	f
55	920166	POB 1992-8	Pond		Runoff	WATER	ND	-	f
56	920167	31A31992-65	Smiley	3		AIR	ND	-	f
57	920168	Florisil tubes	charge						
58	920177	31CB11092-7	ArtGallery		lobby	desk	0.4*	-	f
59	920178	22211192-9	Bliss	2	229		ND	0.015	f,f
60	920179	19311192-15	Coykend.	2	205	floor	ND	0.002	f,f

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2241092-B9
 Sample ID (TCT#).....282068
 Analysis Date.....4/16/92
 Filename.....V20416H
 Analyst.....DJJ
 Sample Amount.....0.50 sample
 ICAL Date.....1/6/92
 CCAL Filename.....V20416C
 Extraction Date.....4/13/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	nd	0.0110	2378-TCDF-C13....	2.00	90
TOTAL TCDF	nd	-----	2378-TCDD-C13....	2.00	96
			12378-PeCDF-C13..	2.00	98
2378-TCDD	nd	0.0048	23478-PeCDF-C13..	2.00	93
TOTAL TCDD	nd	-----	12378-PeCDD-C13..	2.00	117
			123478-HxCDF-C13.	2.00	93
12378-PeCDF	nd	0.0084	123678-HxCDF-C13.	2.00	55
23478-PeCDF	0.0050	-----	123789-HxCDF-C13.	2.00	81
TOTAL PeCDF	0.0250	-----	234678-HxCDF-C13.	2.00	84
			123478-HxCDD-C13.	2.00	88
12378-PeCDD	nd	0.0039	123678-HxCDD-C13.	2.00	89
TOTAL PeCDD	nd	-----	1234678-HpCDF-C13	2.00	73
			1234789-HpCDF-C13	2.00	84
123478-HxCDF	nd	0.0089	1234678-HpCDD-C13	2.00	84
123678-HxCDF	nd	0.0100	OCDD-C13.....	4.00	57
123789-HxCDF	nd	0.0100			
234678-HxCDF	nd	0.0078	1234-TCDD-C13....	2.00	na
TOTAL HxCDF	nd	-----	123789-HxCDD-C13.	2.00	na
123478-HxCDD	nd	0.0042	2378-TCDD-C137...	0.20	93
123678-HxCDD	0.0027	-----			
123789-HxCDD	nd	0.0041			
TOTAL HxCDD	0.0120	-----			
1234678-HpCDF	nd	0.0290			
1234789-HpCDF	nd	0.0055			
TOTAL HpCDF	nd	-----			
1234678-HpCDD	0.1500	-----			
TOTAL HpCDD	0.2000	-----			
OCDF	0.0320	-----			
OCDD	1.6000	-----			

Total 2378-TCDD
 Equivalence = 0.0059 ng/sample
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 92-1467

ETC

DATA MANAGEMENT SUMMARY REPORT (DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 01/28/92
PAGE: 2

Chain of Custody Data Required for ETC Data Management Summary Report

See Below
ETC Sample No. CLEAN HARBORS CHSUNYPCDX Facility Sample Point Date

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s									
		22111192-1K 920111 GD3993	22111192-2K 920111 GD3994	22211192-3K 920111 GD3995	22211192-4K 920111 GD3996	22311192-5K 920111 GD3997	22311192-6K 920111 GD3998	22811192-7K 920111 GD3999	22811192-8K 920111 GD4000		
Miscellaneous Parameters		/									
2,3,7,8-TCDD	ng	<	74	74	82	74	74	84	88		
2,3,7,8-TCDF	ng	50	15	15	15	15	15	84	50		
Decachlorobiphenyl	ug	<	51	51	51	51	51	50	50		
Dichlorobiphenyl	ug	13	79	79	79	79	79	50	1.0		
Heptachlorobiphenyl	ug	12	6	6	6	6	6	39.5	50		
Hexachlorobiphenyl	ug	19	34	34	34	34	34	7.9	16.4		
HpCDD	ng	19	19	19	19	19	19	10.7	35		
HpCDF	ng	20	28	28	28	28	28	1.2	4.78		
HxCDD	ng	20	14	14	14	14	14	8.0	6.4		
HxCDF	ng	36	27	27	27	27	27	3.1	2.3		
Monochlorobiphenyl	ug	50	81	81	81	81	81	50	50		
Nonachlorobiphenyl	ug	1.7	78	78	78	78	78	1.8	73		
OCDD	ng	50	43	43	43	43	43	5.0	4.5		
OCDF	ng	50	46	46	46	46	46	42	48		
Octachlorobiphenyl	ug	53	28	28	28	28	28	64	57		
PCDD	ng	25	9	9	9	9	9	18.2	11.0		
PCDF	ug	19	72	72	72	72	72	6.7	4.9		
Pentachlorobiphenyl	ug	3.3	19	19	19	19	19	11.0	3.5		
TCDD	ng	1.5	94	94	94	94	94	2.8	2.0		
Tetrachlorobiphenyl	ug	1.5	1.1	1.1	1.1	1.1	1.1	1.2	.91		

Notes: (ND) (3) (4) (15) (ND) (ND)

Bliss Room 120 LEFT DESK CENTER
Bliss Room 301 LEFT DESK CENTER
Bliss Room 302 LEFT DESK CENTER
Bliss Room 303 LEFT DESK CENTER
Bliss Room 304 LEFT DESK CENTER
Bliss Room 312 LEFT DESK CENTER
Bliss Room 313 RIGHT DESK CENTER
Bliss Room 314 LAUNDRY ROOM
Bliss Room 315 LEFT DESK CENTER
Bliss Room 316 RIGHT DESK CENTER

Footnotes: BMDL Below Method Detection Limit *Parameter not tested †Trace

	A	B	C	D	E	F	G	H	I
61	920180	20811292-4	Scudder	B	hall	AIR,ug/m3	0.16*	-	f
62	920181	METHOD	BLANK					OCDO	f
63	920182								
64	920283		Pond		Runoff	Water	ND	-	f
65	920284	21211592	Gage	2	hall	tel.booth	0.16	-	f
66	920285	1711592-2	Health Cnt.		vault	DRIP (ug)	140000*	-	f
67	920286	171811392	Health Cnt.		vault	floor(drip)	20000*	-	f
68	920299		Gage		340	desk	ND	-	f
69	920300		Gage		305	desk	0.03	-	f
70	920301		Gage		325	desk	0.008	-	f
71	920302		Gage		310	desk	0.04	-	f
72	920303		Gage		345	desk	0.01	-	f
73	920304		Gage		330	desk	0.05	-	f
74	920305		Gage		315	desk	0.02	-	f
75	920306		Gage		320	desk	0.007	-	f
76	920307		Gage		335	desk	0.009	-	f
77	920308		Capen		101	desk	0.03	-	f
78	920309		Capen		106	desk	ND	-	f
79	920310		Gage		215	desk	0.02	-	f
80	920311		Gage		220	desk	0.008	-	f
81	920312		Gage		235	desk	0.05	-	f
82	920313		Gage		245	desk	0.03	-	f
83	920314		Gage		240	desk	0.01	-	f
84	920315		Gage		205	desk	ND	-	f
85	920316		Gage		225	desk	0.007	-	f
86	920317		Gage		210	desk	0.05	-	f
87	920318		Gage		230	desk	0.01	-	f
88	920319		Gage		130	desk	ND	-	f
89	920320		Gage		125	desk	0.02	-	f
90	920321		Gage		120	desk	0.03	-	f
91	920322		Gage		115	desk	ND	-	f
92	920323		Gage		105	desk	0.02	-	f
93	920324		Gage		B-20	desk	0.04	-	f
94	920325		Gage		B-5	desk	0.02	-	f
95	920326		Gage		B-15	desk	0.03	-	f
96	920327		Gage		laundry		0.1	-	f
97	920328		Gage	1	Bath		0.03	-	f
98	920329		Capen	B		elec.panel	0.08	-	f
99	920340	1912192 DF	Coykendl.	B	hall	water bub.	210	3.2	f,f
100	920341	2112192	Bliss	B		Trashcan	170	-	i,
101	920342	2012192 DF	Bliss	B	laundry	washer	11	18	f,f
102	920343	21812192	Gage	B			8.8	0.012	f,f
103	920344	218A12192	Gage	B			2.9	0.17	f,f
104	920345	20812292DF	Scudder	B	outsd.v.	wall	ND	ND	f,f
105	920346	211C12192	Gage	1		wall	ND	ND	f,f
106	920347	4B12092	Old Lib.	1	103	table	0.02*	-	f
107	920348	4D12092	Old Lib.	2	202	ledge	0.03*	-	f
108	920471	9812892-2	Capen	1	stairs	wall	ND	ND	f
109	920472	9812892-3	Capen	2	stairs	wall	ND	ND	f
110	920473	9812892-4	Capen	3	stairs	wall	0.17	0.008	f,f
111	920474	9812892-4	Capen	B		sink	3.4		
112	920475	9812892-5	Capen	B	hall	wall	0.4		
113	920476	20212892-6	Gage	2	hall	wall	0.17	ND	i
114	920485	Method	Blank					ND	f
115	920577	9812892-20	Capen	B	Mens	wall	0.01		
116	920578	9812892-21	Capen	B	mens	sink	0.02		
117	920579	9812892-JC1	Capen	B	jan.clos	wall	.02*		
118	920580	9812892-S21	Capen	B	stor.#2		.01*		
119	920581	9812892-W1	Capen	B	wms rm	wall	0.02		
120	920582	9812892-W2	Capen	B	wms.rm	wall	0.01		

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 client....CLEAN HARBORS

Sample ID (Client's#)....2241092-L
 Sample ID (TCT#).....282067
 Analysis Date.....4/16/92
 Filename.....V20416G
 Analyst.....DJJ
 Sample Amount.....0.50 sample
 ICAL Date.....1/6/92
 CCAL Filename.....V20416C
 Extraction Date.....4/13/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.270	-----	2378-TCDF-C13....	2.00	80
TOTAL TCDF	2.000	-----	2378-TCDD-C13....	2.00	84
2378-TCDD	nd	0.035	12378-PeCDF-C13..	2.00	79
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	85
12378-PeCDF	0.280	-----	12378-PeCDD-C13..	2.00	91
23478-PeCDF	0.410	-----	123478-HxCDF-C13.	2.00	84
TOTAL PeCDF	3.500	-----	123678-HxCDF-C13.	2.00	86
12378-PeCDD	nd	0.078	123789-HxCDF-C13.	2.00	77
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	79
123478-HxCDF	0.760	-----	123478-HxCDD-C13.	2.00	87
123678-HxCDF	0.280	-----	123678-HxCDD-C13.	2.00	82
123789-HxCDF	0.380	-----	1234678-HpCDF-C13	2.00	71
234678-HxCDF	0.210	-----	1234789-HpCDF-C13	2.00	71
TOTAL HxCDF	4.000	-----	1234678-HpCDD-C13	2.00	65
123478-HxCDD	0.026	-----	OCDD-C13.....	4.00	58
123678-HxCDD	0.240	-----	1234-TCDD-C13....	2.00	na
123789-HxCDD	0.070	-----	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	2.800	-----	2378-TCDD-C137...	0.20	87
1234678-HpCDF	1.300	-----			
1234789-HpCDF	0.560	-----			
TOTAL HpCDF	2.300	-----			
1234678-HpCDD	0.500	-----			
TOTAL HpCDD	1.000	-----			
OCDF	3.000	-----			
OCDD	0.740	-----			

Total 2378-TCDD
 Equivalence = 0.47 ng/sample
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 92-1467

**DATA MANAGEMENT SUMMARY REPORT
(DM-OL) - All Parameters Tested, Samples Linked by Order**

DATE: 01/28/92
PAGE: 2

Chain of Custody Data Required for ETC Data Management Summary Report
CLEAN HARBORS
CHSUNYPCDX
See Below See Below
ETC Sample No. Facility Sample Point Date

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s																		
		22111192-1K 920111 GD3993	22111192-2K 920111 GD3994	22111192-3K 920111 GD3995	22111192-4K 920111 GD3996	22111192-5K 920111 GD3997	22111192-6K 920111 GD3998	22111192-7K 920111 GD3999	22111192-8K 920111 GD4000											
Miscellaneous Parameters																				
2,3,7,8-TCDD	ng	94	72	74	74	82	92	84	88	 2,3,7,8-TCDF Decachlorobiphenyl Dichlorobiphenyl Heptachlorobiphenyl Hexachlorobiphenyl HpCDD HpCDF HxCDD HxCDF Monochlorobiphenyl Nonachlorobiphenyl OCDD OCDF Octachlorobiphenyl PCDD PCDF Pentachlorobiphenyl TCDD TCDF Tetrachlorobiphenyl Trichlorobiphenyl 										
2,3,7,8-TCDF	ng	19	17	15	15	15	17	14	15											
Decachlorobiphenyl	ug	50	50	50	50	50	50	50	50											
Dichlorobiphenyl	ug	79	61	51	51	79	68	50	50											
Heptachlorobiphenyl	ug	43	35	28	28	12.6	10.7	39.5	16.4											
Hexachlorobiphenyl	ug	12.6	9.6	8.1	11.2	12.6	10.7	7.9	16.4											
HpCDD	ng	37	52	29	30	39	35	67	35											
HpCDF	ng	19	19	18	10	62	1.2	4.8	22											
HxCDD	ng	28	33	29	0	94	2.2	78	42											
HxCDF	ng	50	27	23	32	44	8.0	6.4	14											
Monochlorobiphenyl	ug	36	50	50	50	36	31	23	41											
Nonachlorobiphenyl	ug	51	81	78	86	60	1.8	73	72											
OCDD	ng	1.7	90	78	82	96	5.0	4.9	1.5											
OCDF	ng	50	53	50	50	50	4.5	48	50											
Octachlorobiphenyl	ug	53	46	71	50	16	54	57	69											
PCDD	ng	56	28	34	34	68	18.7	11.0	37											
PCDF	ng	7.9	6.0	5.1	7.1	7.9	6.7	4.9	10.3											
Pentachlorobiphenyl	ug	94	72	74	74	82	92	84	88											
TCDD	ng	19	17	15	15	15	17	14	15											
TCDF	ug	3.3	2.5	2.1	2.2	3.2	2.8	3.5	5.0											
Tetrachlorobiphenyl	ug	1.5	1.1	0.94	1.3	1.5	1.2	2.0	4.3											
Trichlorobiphenyl	ug	1.5	1.1	0.94	1.3	1.5	1.2	2.0	4.3											

Footnotes: BMDL Below Method Detection Limit; ND Parameter not tested; IR Refers to IR Spectrum

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....Clean Harbors

Sample ID (Client's#)....2211592 LAUN 2 DF
 Sample ID (TCT#).....301236
 Analysis Date.....11-11-92
 Filename.....V21111G
 Analyst.....SGM
 Sample Amount..... 0.50 m2
 ICAL Date.....11/2/92
 CCAL Filename.....V21111B
 Extraction Date.....11-6-92

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0044	-----	2378-TCDF-C13....	2.00	80
TOTAL TCDF	0.0780	-----	2378-TCDD-C13....	2.00	84
2378-TCDD	nd	0.0028	12378-PeCDF-C13..	2.00	81
TOTAL TCDD	0.0240 *	-----	23478-PeCDF-C13..	2.00	105
12378-PeCDF	0.0049	-----	12378-PeCDD-C13..	2.00	133
23478-PeCDF	0.0071	-----	123478-HxCDF-C13.	2.00	85
TOTAL PeCDF	0.0410	-----	123678-HxCDF-C13.	2.00	90
12378-PeCDD	nd	0.0046	123789-HxCDF-C13.	2.00	49
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	90
123478-HxCDF	0.0100	-----	123478-HxCDD-C13.	2.00	94
123678-HxCDF	0.0066	-----	123678-HxCDD-C13.	2.00	81
123789-HxCDF	0.0200	-----	1234678-HpCDF-C13	2.00	75
234678-HxCDF	0.0043 *	-----	1234789-HpCDF-C13	2.00	92
TOTAL HxCDF	0.1300	-----	1234678-HpCDD-C13	2.00	85
123478-HxCDD	0.0017	-----	OCDD-C13.....	4.00	67
123678-HxCDD	0.0490	-----	1234-TCDD-C13....	2.00	na
123789-HxCDD	0.0080	-----	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.4300	-----	2378-TCDD-C137...	0.20	92
1234678-HpCDF	0.0500	-----			
1234789-HpCDF	0.0089 *	-----			
TOTAL HpCDF	0.0980	-----			
1234678-HpCDD	0.0650	-----			
TOTAL HpCDD	0.1200	-----			
OCDF	0.0350	-----			
OCDD	0.0780 *	-----			
			Total 2378-TCDD		
			Equivalence =	0.016 ng/m2	
			(Using 1989 ITE Factors)		

CONC= Concentrations, calculated as described in EPA method 8290.

DL= Detection limits, calculated as described in EPA method 8290.

na= not applicable

nd= not detected

TCT Invoice Number....4410 93-0326

TWIN CITY TESTING CORPORATION

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....Clean Harbors

DRAFT

Sample ID (Client's#)....2211492 - NISOL DF
 Sample ID (TCF#).....301233
 Analysis Date.....11-10-92
 Filename.....V211101
 Analyst.....MCH
 Sample Amount.....0.50 m2
 ICAL Date.....11/2/92
 CCAL Filename.....V21110C
 Extraction Date.....11-5-92

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0082	-----	2378-TCDF-C13....	2.00	93
TOTAL TCDF	0.0620 *	-----	2378-TCDD-C13....	2.00	90
2378-TCDD	nd	0.0025	12378-PeCDF-C13..	2.00	83
TOTAL TCDD	0.0390 *	-----	23478-PeCDF-C13..	2.00	106
12378-PeCDF	0.0066	-----	12378-PeCDD-C13..	2.00	123
23478-PeCDF	0.0076	-----	123478-HxCDF-C13.	2.00	95
TOTAL PeCDF	0.0190	-----	123678-HxCDF-C13.	2.00	58
12378-PeCDD	nd	0.0057	123789-HxCDF-C13.	2.00	49
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	85
123478-HxCDF	0.0110 *	-----	123478-HxCDD-C13.	2.00	97
123678-HxCDF	nd	0.0120	123678-HxCDD-C13.	2.00	90
123789-HxCDF	0.0190	-----	1234678-HpCDF-C13	2.00	68
234678-HxCDF	0.0062 *	-----	1234789-HpCDF-C13	2.00	79
TOTAL HxCDF	0.0650	-----	1234678-HpCDD-C13	2.00	80
123478-HxCDD	nd	0.0045	OCDD-C13.....	4.00	48
123678-HxCDD	nd	0.0180	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0057	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	nd	-----	2378-TCDD-C137...	0.20	96
1234678-HpCDF	0.0280 *	-----			
1234789-HpCDF	nd	0.0180			
TOTAL HpCDF	0.0280 *	-----			
1234678-HpCDD	0.1500	-----			
TOTAL HpCDD	0.2400	-----			
OCDF	0.0780	-----			
OCDD	0.8500	-----			

Total 2378-TCDD
 Equivalence = 0.011 ng/m2
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 93-0325

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....Clean Harbors

Sample ID (Client's#)....2211492 SISOL DF
 Sample ID (TCT#).....301232
 Analysis Date.....11-10-92
 Filename.....V21110J
 Analyst.....MCH
 Sample Amount.....0.50 m2
 ICAL Date.....11/2/92
 CCAL Filename.....V21110C
 Extraction Date.....11-5-92

DRAFT

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0098	-----	2378-TCDF-C13....	2.00	81
TOTAL TCDF	0.1400 *	-----	2378-TCDD-C13....	2.00	81
2378-TCDD	nd	0.0055	12378-PeCDF-C13..	2.00	76
TOTAL TCDD	0.0180	-----	23478-PeCDF-C13..	2.00	100
12378-PeCDF	0.0052	-----	12378-PeCDD-C13..	2.00	124
23478-PeCDF	0.0071	-----	123478-HxCDF-C13.	2.00	76
TOTAL PeCDF	0.0120	-----	123678-HxCDF-C13.	2.00	53
12378-PeCDD	nd	0.0063	123789-HxCDF-C13.	2.00	45
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	61
123478-HxCDF	nd	0.0450	123478-HxCDD-C13.	2.00	87
123678-HxCDF	nd	0.0031	123678-HxCDD-C13.	2.00	87
123789-HxCDF	nd	0.0200	1234678-HpCDF-C13	2.00	43
234678-HxCDF	nd	0.0093	1234789-HpCDF-C13	2.00	66
TOTAL HxCDF	0.0460	-----	1234678-HpCDD-C13	2.00	73
123478-HxCDD	nd	0.0023	OCDD-C13.....	4.00	52
123678-HxCDD	nd	0.0200	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0070	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	nd	-----	2378-TCDD-C137...	0.20	83
1234678-HpCDF	nd	5.5000			
1234789-HpCDF	nd	0.1100			
TOTAL HpCDF	nd	-----			
1234678-HpCDD	0.1400	-----			
TOTAL HpCDD	0.2400	-----			
OCDF	0.0340 *	-----			
OCDD	0.7000	-----			

Total 2378-TCDD
 Equivalence = 0.0069 ng/m2
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 93-0325

DATA MANAGEMENT SUMMARY REPORT
(DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 01/28/92
PAGE: 2

Chain of Custody Data Required for ETC Data Management Summary Report
See Below ETC Sample No. Company Facility Sample Point Date
CLEAN HARBORS CHSUNYPCDX See Below
GD3993 GD3994 GD3995 GD3996 GD3997 GD3998 GD3999 GD4000

Parameters	Units	2211192-K	2211192-L	2211192-M	2211192-N	2211192-O	2211192-P	2211192-Q	2211192-R	2211192-S	2211192-T
Miscellaneous Parameters											
2,3,7,8-TCDF	ng	.74	.74	.82	.97	.84	.84	.84	.84	.84	.84
2,3,7,8-TCDF	ng	.19	.15	.16	.17	.15	.15	.15	.15	.15	.15
Decachlorobiphenyl	ug	50	50	50	50	50	50	50	50	50	50
Dichlorobiphenyl	ug	43	28	28	35	39.5	39.5	39.5	39.5	39.5	39.5
Heptachlorobiphenyl	ug	12.6	8.1	12.6	10.7	7.9	7.9	7.9	7.9	7.9	7.9
Hexachlorobiphenyl	ug	37	29	39	10.7	6.7	6.7	6.7	6.7	6.7	6.7
HpCDD	ng	.19	.18	.22	5.2	4.8	4.8	4.8	4.8	4.8	4.8
HxCDD	ng	.28	.29	.39	8.0	6.4	6.4	6.4	6.4	6.4	6.4
HxCDF	ng	.20	.22	.32	8.0	6.4	6.4	6.4	6.4	6.4	6.4
Nonachlorobiphenyl	ug	50	50	50	50	50	50	50	50	50	50
Nonachlorobiphenyl	ug	.36	.32	.36	.31	.23	.23	.23	.23	.23	.23
OCDD	ng	.51	.78	.60	1.8	73	73	73	73	73	73
OCDF	ng	.7	.78	.96	5.0	4.9	4.9	4.9	4.9	4.9	4.9
Octachlorobiphenyl	ug	50	50	50	50	50	50	50	50	50	50
PCDD	ng	.53	.71	.46	.64	.57	.57	.57	.57	.57	.57
PCDF	ng	.25	.34	.50	18.7	11.9	11.9	11.9	11.9	11.9	11.9
Pentachlorobiphenyl	ug	7.9	5.7	7.9	6.7	4.9	4.9	4.9	4.9	4.9	4.9
TCDD	ng	.19	.15	.15	11.0	8.4	8.4	8.4	8.4	8.4	8.4
TCDF	ng	3.3	2.1	3.2	2.8	3.5	3.5	3.5	3.5	3.5	3.5
Tetrachlorobiphenyl	ug	1.5	.94	1.5	1.2	2.0	2.0	2.0	2.0	2.0	2.0
Trichlorobiphenyl	ug	1.1	1.3	1.5	1.2	.91	.91	.91	.91	.91	.91

(ND) (ND) (ND) (3) (11) (24) (15) (ND)
 See Below ETC Sample No. Company Facility Sample Point Date
 CLEAN HARBORS CHSUNYPCDX See Below
 GD3993 GD3994 GD3995 GD3996 GD3997 GD3998 GD3999 GD4000
 Miscellaneous Parameters
 2,3,7,8-TCDF
 2,3,7,8-TCDF
 Decachlorobiphenyl
 Dichlorobiphenyl
 Heptachlorobiphenyl
 Hexachlorobiphenyl
 HpCDD
 HxCDD
 HxCDF
 Nonachlorobiphenyl
 Nonachlorobiphenyl
 OCDD
 OCDF
 Octachlorobiphenyl
 PCDD
 PCDF
 Pentachlorobiphenyl
 TCDD
 TCDF
 Tetrachlorobiphenyl
 Trichlorobiphenyl

Footnotes: BMQ Below Method Detection Limit *Parameter not tested

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2232092-112
 Sample ID (TCT#).....280003
 Analysis Date.....3/26/92
 Filename.....S20326E
 Analyst.....MJK
 Sample Amount..... 0.50 sample
 ICAL Date.....3/16/92
 CCAL Filename.....S20326B
 Extraction Date.....3/21/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0220	* -----	2378-TCDF-C13....	2.00	88
TOTAL TCDF	0.0630	-----	2378-TCDD-C13....	2.00	81
2378-TCDD	nd	0.0260	12378-PeCDF-C13..	2.00	110
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	132
12378-PeCDF	nd	0.0045	12378-PeCDD-C13..	2.00	100
23478-PeCDF	0.0055	-----	123478-HxCDF-C13.	2.00	86
TOTAL PeCDF	0.0055	-----	123678-HxCDF-C13.	2.00	77
12378-PeCDD	nd	0.0037	123789-HxCDF-C13.	2.00	95
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	86
123478-HxCDF	0.0071	-----	123478-HxCDD-C13.	2.00	99
123678-HxCDF	nd	0.0065	123678-HxCDD-C13.	2.00	71
123789-HxCDF	0.0083	-----	1234678-HpCDF-C13	2.00	81
234678-HxCDF	nd	0.0052	1234789-HpCDF-C13	2.00	86
TOTAL HxCDF	0.0400	-----	1234678-HpCDD-C13	2.00	85
123478-HxCDD	nd	0.0080	OCDD-C13.....	4.00	79
123678-HxCDD	nd	0.0084	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0070	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	nd	-----	2378-TCDD-C137...	0.20	64
1234678-HpCDF	0.0410	-----			
1234789-HpCDF	nd	0.0100			
TOTAL HpCDF	0.0410	-----			
1234678-HpCDD	0.0560	-----			
TOTAL HpCDD	0.1100	-----			
OCDF	0.2300	-----			
OCDD	1.4000	-----			

Total 2378-TCDD
 Equivalence = 0.0091 ng/sample
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 92-1305

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2241092-115
 Sample ID (TCT#).....282070
 Analysis Date.....4/16/92
 Filename.....V20416J
 Analyst.....MCH
 Sample Amount.....0.50 sample
 ICAL Date.....1/6/92
 CCAL Filename.....V20416C
 Extraction Date.....4/13/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0075	-----	2378-TCDF-C13....	2.00	102
TOTAL TCDF	0.0120	-----	2378-TCDD-C13....	2.00	119
2378-TCDD	nd	0.0056	12378-PeCDF-C13..	2.00	115
TOTAL TCDD	0.0047	-----	23478-PeCDF-C13..	2.00	104
12378-PeCDF	nd	0.0061	12378-PeCDD-C13..	2.00	115
23478-PeCDF	nd	0.0074	123478-HxCDF-C13.	2.00	108
TOTAL PeCDF	nd	-----	123678-HxCDF-C13.	2.00	98
12378-PeCDD	nd	0.0028	123789-HxCDF-C13.	2.00	96
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	104
123478-HxCDF	nd	0.0071	123478-HxCDD-C13.	2.00	123
123678-HxCDF	nd	0.0036	123678-HxCDD-C13.	2.00	90
123789-HxCDF	nd	0.0085	1234678-HpCDF-C13	2.00	88
234678-HxCDF	nd	0.0062	1234789-HpCDF-C13	2.00	96
TOTAL HxCDF	0.0085	-----	1234678-HpCDD-C13	2.00	100
123478-HxCDD	nd	0.0023	OCDD-C13.....	4.00	100
123678-HxCDD	0.0068	-----	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0034	133789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.0360	-----	2378-TCDD-C137...	0.20	96
1234678-HpCDF	0.0180	-----			
1234789-HpCDF	nd	0.0079			
TOTAL HpCDF	0.0180	-----			
1234678-HpCDD	0.4600	-----			
TOTAL HpCDD	0.7300	-----			
OCDF	0.0360	-----			
OCDD	4.4000	-----			

Total 2378-TCDD
 Equivalence = 0.0106 ng/sample
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 92-1467

ETC

DATA MANAGEMENT SUMMARY REPORT (DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 01/28/92
PAGE: 2

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	CLEAN HARBORS CHSUNYPCDX	See Below Facility	See Below Sample Point	Date
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Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s									
		2221192-1K 920111 GD3993	2221192-2K 920111 GD3994	2221192-3K 920111 GD3995	2221192-4K 920111 GD3996	2231192-5K 920111 GD3997	2231192-6K 920111 GD3998	2281192-7K 920111 GD3999	2281192-8K 920111 GD4000		
Miscellaneous Parameters		/									
2,3,7,8-TCDF	ng	.94	.72	.74	.74	.82	.92	.84	.88		
Decachlorobiphenyl	ng	.19	.17	.15	.22	.15	.17	.84	.50		
Dichlorobiphenyl	ug	50	50	50	50	50	50	50	50		
Heptachlorobiphenyl	ug	.79	.61	.51	.71	.79	.68	.50	.50		
Hexachlorobiphenyl	ug	43	35	28	11.2	12.6	10.7	39.5	16.4		
HxCDF	ng	12.6	9.6	8.1	11.2	.39	10.7	7.9	16.4		
HxCDF	ng	.37	.52	.29	1.0	.62	5.2	4.8	.35		
Monochlorobiphenyl	ng	.19	.33	.29	.30	.24	8.0	8.4	.22		
Nonachlorobiphenyl	ng	.20	.33	.29	.30	.24	8.0	8.4	.42		
OCDF	ug	.36	.27	.21	.31	.36	8.0	8.4	.14		
OCDF	ug	50	50	50	50	50	50	50	50		
Octachlorobiphenyl	ng	.51	.81	.78	.86	.60	1.8	50.73	1.5		
PCDF	ng	1.7	.90	.78	.82	.96	5.0	4.9	1.5		
PCDF	ug	50	50	50	50	50	42.64	48.57	50		
Pentachlorobiphenyl	ng	.25	.46	.71	.50	.46	18.2	11.0	.37		
TCDF	ng	7.9	6.0	5.1	7.4	7.9	6.9	14.8	10.8		
TCDF	ug	.94	.72	.74	.74	.82	11.0	3.5	.50		
Tetrachlorobiphenyl	ng	.19	.17	.15	.22	.15	2.8	2.0	.50		
Trichlorobiphenyl	ug	3.3	2.5	2.1	2.9	3.2	2.8	3.5	4.3		
Trichlorobiphenyl	ug	1.5	1.1	.94	1.3	1.5	1.2	.91	1.9		

BLISS
ROOM 120 -
ZANT DESK
CENTER

BLISS
ROOM 339
LEFT DESK
CENTER

BLISS
ROOM 200 -
DISK CENTER

BLISS
ROOM 522 -
RIGHT DESK
CENTER

BLISS
ROOM 512 -
DISK CENTER

BLISS
LAUNDRY ROOM
33 - DRYER,
TUBS, RIGHT
CENTER

BLISS
ROOM 615
LEFT DESK
CENTER

(ND)

(NB)

(ND)

(3)

(4)

(2)

(8)

(1)

Footnotes: (ND) = Below Method Detection Limit (MDF) - Parameter not tested. (NB) = Parameter not tested. (1) = Reference.

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2232092-125
 Sample ID (TCT#).....280004
 Analysis Date.....3/26/92
 Filename.....S20326F
 Analyst.....DJJ
 Sample Amount.....0.50 sample
 ICAL Date.....3/16/92
 CCAL Filename.....S20326B
 Extraction Date.....3/21/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0270	-----	2378-TCDF-C13....	2.00	134
TOTAL TCDF	0.0870	-----	2378-TCDD-C13....	2.00	128
2378-TCDD	nd	0.0090	12378-PeCDF-C13..	2.00	159
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	176
12378-PeCDF	0.0058	-----	12378-PeCDD-C13..	2.00	165
23478-PeCDF	0.0110	-----	123478-HxCDF-C13.	2.00	107
TOTAL PeCDF	0.0530	-----	123678-HxCDF-C13.	2.00	92
12378-PeCDD	nd	0.0012	123789-HxCDF-C13.	2.00	88
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	91
123478-HxCDF	0.0071	-----	123478-HxCDD-C13.	2.00	126
123678-HxCDF	nd	0.0043	123678-HxCDD-C13.	2.00	99
123789-HxCDF	0.0150	-----	1234678-HpCDF-C13	2.00	95
234678-HxCDF	nd	0.0069	1234789-HpCDF-C13	2.00	115
TOTAL HxCDF	0.0460	-----	1234678-HpCDD-C13	2.00	106
123478-HxCDD	nd	0.0018	OCDD-C13.....	4.00	94
123678-HxCDD	nd	0.0054	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0047	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.0140	-----	2378-TCDD-C137...	0.20	83
1234678-HpCDF	nd	0.0150			
1234789-HpCDF	nd	0.0036			
TOTAL HpCDF	nd	-----			
1234678-HpCDD	0.0340	-----			
TOTAL HpCDD	0.0660	-----			
OCDF	nd	0.0210			
OCDD	0.3900	-----			

Total 2378-TCDD
 Equivalence = 0.011 ng/sample
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 92-1305

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2232092-125 (RE-ANALYSIS)
 Sample ID (TCT#).....280004
 Analysis Date.....4/1/92
 Filename.....S20401E
 Analyst.....DJJ
 Sample Amount..... 0.50 sample
 ICAL Date.....3/31/92
 CCAL Filename.....S20401C
 Extraction Date.....3/21/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVER
2378-TCDF	0.0430	-----	2378-TCDF-C13....	2.00	12
TOTAL TCDF	0.0830	-----	2378-TCDD-C13....	2.00	12
2378-TCDD	nd	0.0160	12378-PeCDF-C13..	2.00	11
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	13
12378-PeCDF	nd	0.0072	12378-PeCDD-C13..	2.00	13
23478-PeCDF	nd	0.0052	123478-HxCDF-C13.	2.00	10
TOTAL PeCDF	0.0560	-----	123678-HxCDF-C13.	2.00	9
12378-PeCDD	nd	0.0017	123789-HxCDF-C13.	2.00	9
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	9
123478-HxCDF	0.0100	-----	123478-HxCDD-C13.	2.00	11
123678-HxCDF	0.0051	-----	123678-HxCDD-C13.	2.00	11
123789-HxCDF	0.0100	-----	1234678-HpCDF-C13	2.00	8
234678-HxCDF	nd	0.0031	1234789-HpCDF-C13	2.00	8
TOTAL HxCDF	0.0500	-----	1234678-HpCDD-C13	2.00	9
123478-HxCDD	nd	0.0041	OCDD-C13.....	4.00	7
123678-HxCDD	nd	0.0076			
123789-HxCDD	nd	0.0042	1234-TCDD-C13....	2.00	7
TOTAL HxCDD	0.0220	-----	123789-HxCDD-C13.	2.00	7
1234678-HpCDF	0.0130	-----	2378-TCDD-C137...	0.20	9
1234789-HpCDF	nd	0.0065			
TOTAL HpCDF	0.0130	-----			
1234678-HpCDD	0.0280	-----			
TOTAL HpCDD	0.0570	-----			
OCDF	0.0220	-----			
OCDD	0.4200	-----			

Total 2378-TCDD
 Equivalence = 0.0077 ng/samp
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 92-1305

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2241092-DIRA
 Sample ID (TCT#).....282069
 Analysis Date.....4/16/92
 Filename.....V20416I
 Analyst.....MH
 Sample Amount.....0.50 sample
 ICAL Date.....1/6/92
 CCAL Filename.....V20416C
 Extraction Date.....4/13/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	nd	0.0089	2378-TCDF-C13....	2.00	80
TOTAL TCDF	0.0073	-----	2378-TCDD-C13....	2.00	93
			12378-PeCDF-C13..	2.00	86
2378-TCDD	nd	0.0220	23478-PeCDF-C13..	2.00	81
TOTAL TCDD	nd	-----	12378-PeCDD-C13..	2.00	81
			123478-HxCDF-C13.	2.00	82
12378-PeCDF	nd	0.0110	123678-HxCDF-C13.	2.00	70
23478-PeCDF	nd	0.0130	123789-HxCDF-C13.	2.00	80
TOTAL PeCDF	0.0140	-----	234678-HxCDF-C13.	2.00	82
			123478-HxCDD-C13.	2.00	97
12378-PeCDD	nd	0.0065	123678-HxCDD-C13.	2.00	81
TOTAL PeCDD	nd	-----	1234678-HpCDF-C13	2.00	71
			1234789-HpCDF-C13	2.00	82
123478-HxCDF	nd	0.0033	1234678-HpCDD-C13	2.00	83
123678-HxCDF	nd	0.0045	OCDD-C13.....	4.00	73
123789-HxCDF	nd	0.0079			
234678-HxCDF	nd	0.0083	1234-TCDD-C13....	2.00	na
TOTAL HxCDF	nd	-----	123789-HxCDD-C13.	2.00	na
123478-HxCDD	nd	0.0022	2378-TCDD-C137...	0.20	92
123678-HxCDD	nd	0.0030			
123789-HxCDD	nd	0.0042			
TOTAL HxCDD	nd	-----			
1234678-HpCDF	nd	0.0090			
1234789-HpCDF	nd	0.0081			
TOTAL HpCDF	nd	-----			
1234678-HpCDD	0.0980	-----			
TOTAL HpCDD	0.1300	-----			
OCDF	0.0110	-----			
OCDD	0.3900	-----			

Total 2378-TCDD
 Equivalence = 0.0014 ng/sample
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 92-1467

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2232092-LOUNGE
 Sample ID (TCT#).....280002
 Analysis Date.....3/26/92
 Filename.....S20326D
 Analyst.....DJJ
 Sample Amount..... 0.50 sample
 ICAL Date.....3/16/92
 CCAL Filename.....S20326B
 Extraction Date.....3/21/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0480	-----	2378-TCDF-C13....	2.00	125
TOTAL TCDF	0.3000	-----	2378-TCDD-C13....	2.00	121
2378-TCDD	nd	0.0120	12378-PeCDF-C13..	2.00	126
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	147
12378-PeCDF	0.0120	-----	12378-PeCDD-C13..	2.00	112
23478-PeCDF	0.0200	-----	123478-HxCDF-C13.	2.00	133
TOTAL PeCDF	0.1300	-----	123678-HxCDF-C13.	2.00	113
12378-PeCDD	nd	0.0048	123789-HxCDF-C13.	2.00	134
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	142
123478-HxCDF	0.0160	-----	123478-HxCDD-C13.	2.00	127
123678-HxCDF	0.0058	-----	123678-HxCDD-C13.	2.00	110
123789-HxCDF	0.0110	-----	1234678-HpCDF-C13	2.00	114
234678-HxCDF	nd	0.0054	1234789-HpCDF-C13	2.00	131
TOTAL HxCDF	0.0790	-----	1234678-HpCDD-C13	2.00	110
123478-HxCDD	nd	0.0018	OCDD-C13.....	4.00	113
123678-HxCDD	nd	0.0063	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0066	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.0230	-----	2378-TCDD-C137...	0.20	108
1234678-HpCDF	0.0410	-----			
1234789-HpCDF	nd	0.0058			
TOTAL HpCDF	0.0880	-----			
1234678-HpCDD	0.0940	-----			
TOTAL HpCDD	0.2500	-----			
OCDF	0.2100	-----			
OCDD	2.6000	-----			

Total 2378-TCDD
 Equivalence = 0.023 ng/sample
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

ETC

DATA MANAGEMENT SUMMARY REPORT (DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 01/28/92
PAGE: 2

Chain of Custody Data Required for ETC Data Management Summary Report

CLEAN HARBORS

CHSUNYPCDX

See Below

ETC Sample No.

Company

Facility

Sample Point

See Below

Date

Sample Points, Sampling Dates, and ETC Sample No.'s

Parameters	Units	22211192-1K 920111 GD3993	22211192-2K 920111 GD3994	22211192-3K 920111 GD3995	22211192-4K 920111 GD3996	22311192-5K 920111 GD3997	22811192-6K 920111 GD3998	22811192-7K 920111 GD3999	22811192-8K 920111 GD4000
Miscellaneous Parameters									
2,3,7,8-TCDF	ng	<	<	<	<	<	<	<	<
2,3,7,8-TCDF	ng	.19	.17	.15	.22	.15	.17	.84	.88
Dichlorobiphenyl	ug	<	<	<	<	<	<	<	<
Dichlorobiphenyl	ug	50	50	50	50	50	50	50	50
Heptachlorobiphenyl	ug	43	35	28	11	12	35	39	50
Heptachlorobiphenyl	ug	6	6	8	2	6	10	5	50
Hexachlorobiphenyl	ug	12	9	8	1	1	1	7	16
Hexachlorobiphenyl	ug	27	13	29	30	34	2	8	4
HxCDF	ng	13	33	26	1	4	2	8	35
HxCDF	ng	28	14	22	30	34	8	6	22
Monochlorobiphenyl	ug	20	14	22	94	42	8	6	12
Nonachlorobiphenyl	ug	36	27	23	32	36	3	4	14
OCDF	ng	50	50	50	50	50	50	50	50
OCDF	ng	51	81	78	86	60	1	5	72
Octachlorobiphenyl	ng	1	90	78	82	95	5	4	1
PCDD	ug	50	43	34	50	50	4	4	5
PCDF	ug	53	46	71	50	56	2	4	5
Pentachlorobiphenyl	ug	25	28	34	2	60	18	11	10
TCDD	ng	7	6	5	7	7	6	4	10
TCDF	ng	94	72	74	74	82	92	84	88
Tetrachlorobiphenyl	ug	3	2	15	2	15	11	3	50
Trichlorobiphenyl	ug	1.5	1.1	2	2	3	2	2	4
		<	<	<	<	<	<	<	<
		<	<	<	<	<	<	<	<
		<	<	<	<	<	<	<	<

BLISS
ROOM 120 -
RIGHT DESK
CENTER

BLISS
ROOM 120 -
LEFT DESK
CENTER

BLISS
ROOM 209
LEFT DESK
CENTER

BLISS
ROOM 202 -
RIGHT DESK
CENTER

BLISS
ROOM 202 -
RIGHT DESK
CENTER

BLISS
ROOM 120 -
LEFT DESK
CENTER

BLISS
LAUNDRY ROOM
#2 - FRONT
CHINA CABINET

BLISS
ROOM 205
LEFT DESK
CENTER

(ND)

(ND)

(ND)

(3)

(1)

(24)

(15)

(ND)

Footnotes: BMOL Below Method Detection Limit *Parameter not tested IR Trace

	A	B	C	D	E	F	G	H	I
1	DOH ID	CHI No.	BUILDING	LEV.	ROOM	SURF.	PCBs	DIOXIN	Rept.
2	920017	D-1	Bliss	8	hall	light	24	370	f,fr
3	920018	D-2	Coykend.	8	hall	contr.box	430	14	f,fr
4	920019	D-3	Scudder	8	vault	wind.sill	8300	230	f,fr
5	920020	A-1	Parker	1		table	5600*	-	f
6	920021	A-2	Bliss	8	hall	light	2.9	-	f
7	920022	A-3	Bliss	1	lounge	table	0.2	-	f
8	920023	A-4	Coykend.	8	hall	doortops	180*	-	f
9	920024	A-5	Coykend.	2	hall	fount. 204A	13	-	f
10	920025	A-6	Gage	3	hall	320 - table	0.26	-	f
11	920026	A-7	Gage	8	Rec.Rm.	TV	0.47	-	f
12	920027	A-8	Scudder	8	hall	light	2.6	-	f
13	920028	A-9	Scudder	1	lobby	table	0.68	-	f
14	920029		BLANK					run 2x	f
15	920031								
16	920032	SWS-22	Bliss				1100	-	f
17	920033	SWS-41	Coykend.				350	-	f
18	920034								
19	920039	0483010592	Old.Lib.	8		fixture	1.25	-	f
20	920040	2183010592	Gage		bath	ledge	1.7	-	f
21	920041	901010592	Capen			wind.sill	0.105	-	f
22	920042	19181692	Coykend.				5.8	-	f
23	920043	19281692	Coykend.				0.03	-	f
24	920044	20681792	Scudder				0.23	-	f
25	920045	20181792	Scudder				0.85*	-	f
26	920046	20281792	Scudder				0.1	-	f
27	920047	20381792	Scudder				0.48	-	f
28	920048	20181692	Scudder				0.94*	-	f
29	920049	20181692	Scudder				1.6	-	f
30	920050	20281692	Scudder				0.02	-	f
31	920051	20381692	Scudder				0.2	-	f
32	920052	20481692	Scudder				ND	-	f
33	920052	8181692	Bouton				ND	-	f
34	920053	8281692	Bouton				ND	-	f
35	920054	8381692	Bouton				ND	-	f
36	920055	8881692	Bouton				0.014	-	f
37	920056	37181692	Bevier				0.04	-	f
38	920057	37181692	Bevier				ND	-	f
39	920058	37381692	Bevier				ND	-	f
40	920059	37881692	Bevier				0.01	-	f
41	920060	21181792	Gage				0.07	-	f
42	920060	21181792	Gage				0.01	-	f
43	920061	21581792	Gage				0.13	-	f
44	920062	21281792	Gage				0.05	-	f
45	920063	21881792	Gage				1.4	-	f
46	920064	22381792	Bliss				210	-	f
47	920065	22181792	Bliss				0.11	-	f
48	920066	22581792	Bliss				1.2	-	f
49	920067	22481792	Bliss				5.7	-	f
50	920068	22681792	Bliss				44	-	f
51	920069	22281792	Bliss					-	f
52	920070						ND	-	f
53	920120	GAUZE	BLANK				ND	-	f
54	920120	E181892	Bardes		kitchen	AIR	ND	-	f
55	920163	26281892	Parker	SOIL		SOIL, ppm	10.8*	-	f
56	920164	9281892	Capen	8	B-8	floor	0.04	-	f
57	920165	POB 1992-8	Pond		Runoff	WATER	ND	-	f
58	920166	31A31992-65	Smiley	3		AIR	ND	-	f
59	920167	Florisisl tubes	charge					-	-
60	920168	31C811092-7	ArtGallery		lobby	desk	0.4*	-	f
61	920177	31C811092-7	Bliss	2	229		ND	0.015	f, f
62	920178	22211192-9	Bliss	2	205		ND	0.002	f, f
63	920179	19311192-15	Coykend.	2	205	floor	ND		f, f

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Client Identification....2232092-214
 Sample ID (TCT#).....280005
 Analysis Date.....3/26/92
 Filename.....S20326G
 Analyst.....DJD
 Sample Amount..... 0.50 sample
 ICAL Date.....3/16/92
 CCAL Filename.....S20326B
 Extraction Date.....3/21/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0660	-----	2378-TCDF-C13....	2.00	124
TOTAL TCDF	0.3800	-----	2378-TCDD-C13....	2.00	112
2378-TCDD	nd	0.0180	12378-PeCDF-C13..	2.00	169
TOTAL TCDD	0.0033	-----	23478-PeCDF-C13..	2.00	199
12378-PeCDF	0.0600	-----	12378-PeCDD-C13..	2.00	185
23478-PeCDF	0.0530	-----	123478-HxCDF-C13.	2.00	91
TOTAL PeCDF	0.5400	-----	123678-HxCDF-C13.	2.00	74
12378-PeCDD	0.0057	-----	123789-HxCDF-C13.	2.00	54
TOTAL PeCDD	0.0130	-----	234678-HxCDF-C13.	2.00	73
123478-HxCDF	0.0510	-----	123478-HxCDD-C13.	2.00	62
123678-HxCDF	0.0370	-----	123678-HxCDD-C13.	2.00	76
123789-HxCDF	0.0500	-----	1234678-HpCDF-C13	2.00	77
234678-HxCDF	0.0110	-----	1234789-HpCDF-C13	2.00	100
TOTAL HxCDF	0.4700	-----	1234678-HpCDD-C13	2.00	80
123478-HxCDD	nd	0.0170	OCDD-C13.....	4.00	37
123678-HxCDD	nd	0.0080	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0130	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.0520	-----	2378-TCDD-C137...	0.20	78
1234678-HpCDF	0.0980	-----			
1234789-HpCDF	0.0500	-----			
TOTAL HpCDF	0.1900	-----			
1234678-HpCDD	0.0640	-----			
TOTAL HpCDD	0.1200	-----			
OCDF	0.2600	-----	Total 2378-TCDD		
OCDD	0.3800	-----	Equivalence =	0.057 ng/sample	
			(Using 1989 ITE Factors)		

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 92-1305

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

sample ID (Client's#)....2232092-214 (RE-ANALYSIS)
 Sample ID (TCT#).....280005
 Analysis Date.....3/31/92
 Filename.....S20331I
 Analyst.....MH
 Sample Amount.....0.50 sample
 ICAL Date.....3/31/92
 CCAL Filename.....S20331C
 Extraction Date.....3/21/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVER
2378-TCDF	0.0810	-----	2378-TCDF-C13....	2.00	11
TOTAL TCDF	0.5200	-----	2378-TCDD-C13....	2.00	10
2378-TCDD	nd	0.0180	12378-PeCDF-C13..	2.00	10
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	12
12378-PeCDF	0.0610	-----	12378-PeCDD-C13..	2.00	11
23478-PeCDF	0.0600	-----	123478-HxCDF-C13.	2.00	10
TOTAL PeCDF	0.6000	-----	123678-HxCDF-C13.	2.00	8
12378-PeCDD	nd	0.0068	123789-HxCDF-C13.	2.00	10
TOTAL PeCDD	0.0150	-----	234678-HxCDF-C13.	2.00	9
123478-HxCDF	0.0650	-----	123478-HxCDD-C13.	2.00	10
123678-HxCDF	0.0400	-----	123678-HxCDD-C13.	2.00	9
123789-HxCDF	0.0500	-----	1234678-HpCDF-C13	2.00	7
234678-HxCDF	0.0120	-----	1234789-HpCDF-C13	2.00	8
TOTAL HxCDF	0.4400	-----	1234678-HpCDD-C13	2.00	8
123478-HxCDD	0.0042	-----	OCDD-C13.....	4.00	6
123678-HxCDD	0.0077	-----	1234-TCDD-C13....	2.00	7
123789-HxCDD	0.0055	-----	123789-HxCDD-C13.	2.00	7
TOTAL HxCDD	0.0440	-----	2378-TCDD-C137...	0.20	7
1234678-HpCDF	0.1200	-----			
1234789-HpCDF	0.0610	-----			
TOTAL HpCDF	0.3000	-----			
1234678-HpCDD	0.0780	-----			
TOTAL HpCDD	0.1300	-----			
OCDF	0.2600	-----			
OCDD	0.4900	-----			

Total 2378-TCDD
 Equivalence = 0.063 ng/sample
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 92-1305

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2232092-218
 Sample ID (TCT#).....280006
 Analysis Date.....3/26/92
 Filename.....S20326H
 Analyst.....DJD
 Sample Amount..... 0.50 sample
 ICAL Date.....3/16/92
 CCAL Filename.....S20326B
 Extraction Date.....3/21/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0170	-----	2378-TCDF-C13....	2.00	105
TOTAL TCDF	0.0440	-----	2378-TCDD-C13....	2.00	108
2378-TCDD	nd	0.0140	12378-PeCDF-C13..	2.00	110
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	121
12378-PeCDF	nd	0.0071	12378-PeCDD-C13..	2.00	100
23478-PeCDF	0.0057	-----	123478-HxCDF-C13.	2.00	108
TOTAL PeCDF	0.0330	-----	123678-HxCDF-C13.	2.00	94
12378-PeCDD	nd	0.0043	123789-HxCDF-C13.	2.00	53
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	87
123478-HxCDF	nd	0.0075	123478-HxCDD-C13.	2.00	96
123678-HxCDF	nd	0.0035	123678-HxCDD-C13.	2.00	84
123789-HxCDF	nd	0.0190	1234678-HpCDF-C13	2.00	76
234678-HxCDF	nd	0.0050	1234789-HpCDF-C13	2.00	95
TOTAL HxCDF	0.0200	-----	1234678-HpCDD-C13	2.00	81
123478-HxCDD	nd	0.0120	OCDD-C13.....	4.00	104
123678-HxCDD	nd	0.0097	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0074	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.0470	-----	2378-TCDD-C137...	0.20	79
1234678-HpCDF	0.0250	-----			
1234789-HpCDF	nd	0.0095			
TOTAL HpCDF	0.0250	-----			
1234678-HpCDD	0.5700	-----			
TOTAL HpCDD	0.8800	-----			
OCDF	0.0250	-----			
OCDD	2.3000	-----			

Total 2378-TCDD
 Equivalence = 0.013 ng/sample
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 92-1305

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2241092-226
 Sample ID (TCT#).....282071
 Analysis Date.....4/16/92
 Filename.....V20416K
 Analyst.....MCH
 Sample Amount.....0.50 sample
 ICAL Date.....1/6/92
 CCAL Filename.....V20416C
 Extraction Date.....4/13/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	nd	0.0057	2378-TCDF-C13....	2.00	87
TOTAL TCDF	0.0140	-----	2378-TCDD C13....	2.00	98
2378-TCDD	nd	0.0072	12378-PeCDF-C13..	2.00	95
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	88
12378-PeCDF	nd	0.0053	12378-PeCDD-C13..	2.00	100
23478-PeCDF	nd	0.0056	123478-HxCDF-C13.	2.00	92
TOTAL PeCDF	nd	-----	123678-HxCDF-C13.	2.00	61
12378-PeCDD	nd	0.0028	123789-HxCDF-C13.	2.00	84
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	89
123478-HxCDF	0.0057	-----	123478-HxCDD-C13.	2.00	81
123678-HxCDF	nd	0.0064	123678-HxCDD-C13.	2.00	91
123789-HxCDF	0.0086	-----	1234678-HpCDF-C13	2.00	83
234678-HxCDF	nd	0.0018	1234789-HpCDF-C13	2.00	93
TOTAL HxCDF	0.0580	-----	1234678-HpCDD-C13	2.00	97
123478-HxCDD	nd	0.0015	OCDD-C13.....	4.00	52
123678-HxCDD	0.0083	-----	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0056	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.0250	-----	2378-TCDD-C137...	0.20	99
1234678-HpCDF	0.0770	-----			
1234789-HpCDF	nd	0.0110			
TOTAL HpCDF	0.1200	-----			
1234678-HpCDD	0.7400	-----			
TOTAL HpCDD	1.1000	-----			
OCDF	0.1900	-----			
OCDD	4.5000	-----			

Total 2378-TCDD
 Equivalence = 0.0151 ng/sample
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 92-1467

ETC

DATA MANAGEMENT SUMMARY REPORT (DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 01/28/92
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Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	CLEAN HARBORS	CHSUNYPCDX	See Below
	Company	Facility	Date

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s									
		22111192-K 920111 GD3993	22111192-2K 920111 GD3994	22111192-3K 920111 GD3995	22111192-4K 920111 GD3996	22311192-5K 920111 GD3997	22311192-6K 920111 GD3998	22811192-7K 920111 GD3999	22811192-7K 920111 GD4000		
Miscellaneous Parameters		/									
2,3,7,8-TCDD	ng	94	74	74	74	82	92	84	88		
2,3,7,8-TCDF	ng	19	17	15	15	15	17	84	50		
Decachlorobiphenyl	ug	50	50	50	50	50	50	50	50		
Dichlorobiphenyl	ug	43	61	51	71	79	68	50	50		
Heptachlorobiphenyl	ug	12	5	8	11	12	10	39	7		
Hexachlorobiphenyl	ug	37	5	1	2	6	5	7	9		
HpCDD	ng	19	19	29	30	39	2	4	8		
HxCDD	ng	28	33	29	30	62	2	8	7		
HxCDF	ng	20	14	22	24	42	2	6	7		
Monochlorobiphenyl	ug	36	27	23	32	36	31	23	47		
Nonachlorobiphenyl	ug	50	8	50	86	60	1	50	73		
OCDD	ng	1.7	.90	78	80	96	8	4	9		
OCDF	ng	50	43	34	50	46	42	48	50		
PCDD	ng	53	46	71	50	60	61	57	50		
PCDF	ng	25	28	34	2.4	60	18	11	10		
Pentachlorobiphenyl	ug	7.9	6.8	5.1	7.1	7.9	6.7	4.9	3.7		
TCDD	ng	94	74	74	74	82	92	84	88		
TCDF	ng	19	17	15	15	15	17	84	50		
Tetrachlorobiphenyl	ug	3.3	2.5	2.1	2.9	3.2	2.8	3.5	4.3		
Trichlorobiphenyl	ug	1.5	1.1	.94	1.3	1.5	1.2	2.0	1.9		

Footnotes: BMOL Below Method Detection Limit. Parameter not tested. (ND)

DATA MANAGEMENT SUMMARY REPORT (DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 01/28/92
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Chain of Custody Data Required for ETC Data Management Summary Report

CLEAN HARBORS

CHSUNYPCDX

See Below
ETC Sample No.

See Below
Sample Point

Company

Facility

Date

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s						
		22111192-1K 920111 GD3993	22111192-2K 920111 GD3994	22211192-3K 920111 GD3995	22211192-4K 920111 GD3996	22311192-5K 920111 GD3997	22811192-6K 920111 GD3998	22811192-7K 920111 GD3999
Miscellaneous Parameters								
2,3,7,8-TCDF	ng	<	72	<	<	82	<	<
2,3,7,8-TCDF	ng	19	17	15	22	1	84	88
Decachlorobiphenyl	ug	50	51	50	71	50	50	50
Dichlorobiphenyl	ug	75	51	51	51	79	51	50
Heptachlorobiphenyl	ug	43	6	28	71	50	39.5	50
Hexachlorobiphenyl	ug	12.6	52	8.1	2.6	2.6	7.9	16.4
HxCDF	ng	37	19	29	39	39	67	35
HxCDF	ng	19	33	18	30	24	8	22
HxCDF	ng	2.8	33	29	30	24	8	42
HxCDF	ng	36	14	22	94	42	23	14
Nonachlorobiphenyl	ug	50	2	50	32	35	6.4	50
Nonachlorobiphenyl	ug	51	81	78	6	60	23	50
OCDF	ng	1.7	90	78	82	50	73	72
OCDF	ng	50	3	34	50	50	49	1.5
PCDF	ng	3	46	71	50	46	49	50
PCDF	ng	25	38	34	2.4	60	59	59
Pentachlorobiphenyl	ug	7.9	6.0	5.7	1.4	7.9	11.0	10.3
Pentachlorobiphenyl	ug	94	72	75	2.4	82	4.9	10.3
TCDF	ng	19	17	15	1.4	15	84	88
Tetrachlorobiphenyl	ng	3.3	1	2.1	2.9	3.5	3.5	50
Tetrachlorobiphenyl	ug	1.3	1	94	1.3	1.5	2.0	1.3

BLISS
ROOM 102-LEFT
TIGHT DESK
CENTER
(ND)

BLISS
ROOM 102-CENTRAL
LEFT DESK
CENTER
(ND)

BLISS
ROOM 330
LEFT DESK
CENTER
(ND)

BLISS
TRASH CENTER
(3)

BLISS
ROOM 305 -
TIGHT DESK
CENTER
(ND)

BLISS
ROOM 512-LEFT
DESK CENTER
(24)

BLISS
LAUNDRY ROOM
#2 - OPTICAL
CHANGE ROOM
(15)

BLISS
ROOM 215
LEFT DESK
CENTER
(ND)

* Parameters not tested

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....Clean Harbors

Sample ID (Client's#)....2211492 - 312 DF
 Sample ID (TCT#).....301234
 Analytical data 11-15-92
 Filename.....V21110H
 Analyst.....MCH
 Sample Amount.....0.50 m2
 ICAL Date.....11/2/92
 CCAL Filename.....V21110C
 Extraction Date.....11-5-92

DRAFT

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	nd	0.0060	2378-TCDF-C13....	2.00	96
TOTAL TCDF	0.0200 *	-----	2378-TCDD-C13....	2.00	96
			12378-PeCDF-C13..	2.00	87
2378-TCDD	nd	0.0034	23478-PeCDF-C13..	2.00	117
TOTAL TCDD	0.0230 *	-----	12378-PeCDD-C13..	2.00	123
			123478-HxCDF-C13.	2.00	80
12378-PeCDF	nd	0.0066	123678-HxCDF-C13.	2.00	92
23478-PeCDF	nd	0.0039	123789-HxCDF-C13.	2.00	91
TOTAL PeCDF	nd	-----	234678-HxCDF-C13.	2.00	97
			123478-HxCDD-C13.	2.00	102
12378-PeCDD	nd	0.0053	123678-HxCDD-C13.	2.00	99
TOTAL PeCDD	nd	-----	1234678-HpCDF-C13	2.00	90
			1234789-HpCDF-C13	2.00	118
123478-HxCDF	nd	0.0031	1234678-HpCDD-C13	2.00	109
123678-HxCDF	nd	0.0026	OCDD-C13.....	4.00	100
123789-HxCDF	nd	0.0120			
234678-HxCDF	nd	0.0024	1234-TCDD-C13....	2.00	na
TOTAL HxCDF	nd	-----	123789-HxCDD-C13.	2.00	na
123478-HxCDD	nd	0.0009	2378-TCDD-C137...	0.20	97
123678-HxCDD	nd	0.0021			
123789-HxCDD	nd	0.0016			
TOTAL HxCDD	nd	-----			
1234678-HpCDF	0.0054 *	-----			
1234789-HpCDF	nd	0.0046			
TOTAL HpCDF	0.0054 *	-----			
1234678-HpCDD	0.0140 *	-----			
TOTAL HpCDD	0.0140 *	-----			
OCDF	nd	0.0110			
OCDD	0.0790 *	-----			

Total 2378-TCDD
 Equivalence = 0.0003 ng/m2
 (Using 1989 ITC Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 93-0325

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2241092-321
 Sample ID (TCT#).....282072
 Analysis Date.....4/17/92
 Filename.....V20417E
 Analyst.....MJK
 Sample Amount..... 0.50 sample
 ICAL Date.....1/6/92
 CCAL Filename.....V20417C
 Extraction Date.....4/13/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0340	-----	2378-TCDF-C13....	2.00	73
TOTAL TCDF	0.0860	-----	2378-TCDD-C13....	2.00	80
			12378-PeCDF-C13..	2.00	93
2378-TCDD	nd	0.0210	23478-PeCDF-C13..	2.00	95
TOTAL TCDD	nd	-----	12378-PeCDD-C13..	2.00	90
			123478-HxCDF-C13.	2.00	83
12378-PeCDF	0.0210	-----	123678-HxCDF-C13.	2.00	73
23478-PeCDF	0.0230	-----	123789-HxCDF-C13.	2.00	67
TOTAL PeCDF	0.1400	-----	234678-HxCDF-C13.	2.00	76
			123478-HxCDD-C13.	2.00	80
12378-PeCDD	nd	0.0120	123678-HxCDD-C13.	2.00	77
TOTAL PeCDD	nd	-----	1234678-HpCDF-C13	2.00	65
			1234789-HpCDF-C13	2.00	74
123478-HxCDF	0.0220	-----	1234678-HpCDD-C13	2.00	67
123678-HxCDF	0.0120	-----	OCDD-C13.....	4.00	53
123789-HxCDF	0.0250	-----			
234678-HxCDF	0.0120	-----	1234-TCDD-C13....	2.00	na
TOTAL HxCDF	0.1100	-----	123789-HxCDD-C13.	2.00	na
123478-HxCDD	nd	0.0034	2378-TCDD-C137...	0.20	89
123678-HxCDD	0.0210	-----			
123789-HxCDD	0.0053	-----			
TOTAL HxCDD	0.1800	-----			
1234678-HpCDF	0.1800	-----			
1234789-HpCDF	0.0250	-----			
TOTAL HpCDF	0.4400	-----			
1234678-HpCDD	1.9000	-----			
TOTAL HpCDD	3.3000	-----			
OCDF	0.6500	-----	Total 2378-TCDD		
OCDD	9.9000	-----	Equivalence =	0.057 ng/sample	
			(Using 1989 ITE Factors)		

CONC= Concentrations, calculated as described in EPA method 8290.

DL= Detection limits, calculated as described in EPA method 8290.

na= not applicable

nd= not detected

ETC

DATA MANAGEMENT SUMMARY REPORT (DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 01/28/92
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Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	CLEAN HARBORS	CHSUNYPCDX	See Below Sample Point	Date

Parameters	Units	2221192-1 920111 GD3993	2221192-2 920111 GD3994	2221192-3 920111 GD3995	2221192-4 920111 GD3996	2231192-5 920111 GD3997	2231192-6 920111 GD3998	2281192-7 920111 GD3999	2281192-8 920111 GD4000	
Miscellaneous Parameters		/								
2,3,7,8-TCDD	ng	.94	.92	.74	.74	.82	.92	.84	.88	
2,3,7,8-TCDF	ng	.19	.11	.15	.22	.15	1.7	.94	.50	
Decachlorobiphenyl	ug	50	50	50	50	50	50	50	50	
Dichlorobiphenyl	ug	.79	.61	.51	.71	.79	.68	.50	1.0	
Heptachlorobiphenyl	ug	43	35	28	30	39	35	39.5	50	
Hexachlorobiphenyl	ug	12.3	6.6	8.1	11.2	12.6	10.7	7.9	16.4	
HxCDD	ng	.31	.52	.29	.30	.39	.62	1.8	.35	
HxCDF	ng	.19	.33	.18	1.0	.62	5.6	1.8	.22	
HxCOD	ng	.28	.33	.29	.30	.24	8.0	6.78	.42	
HxCDF	ng	.20	.14	.22	.94	.42	8.0	6.23	.14	
Monochlorobiphenyl	ug	.36	.27	.23	.32	.36	3.1	5.0	.17	
Nonachlorobiphenyl	ug	50	50	50	50	50	50	50	50	
OCDD	ng	.51	.81	.78	.80	.60	1.8	73	.72	
OCDF	ng	1.7	.90	.78	.82	.96	1.0	4.9	1.5	
Octachlorobiphenyl	ug	50	43	44	50	50	42	18	50	
PCDD	ng	.53	.46	.71	.50	.46	.61	57	.69	
PCDF	ng	.25	.28	.94	2.4	.60	18.2	11.0	.37	
Pentachlorobiphenyl	ug	7.9	6.0	5.1	7.1	7.9	6.7	4.9	10.3	
TCDD	ng	.94	.72	.74	.44	.82	9.2	84	.48	
TCDF	ng	.19	.17	.15	.23	.15	11.0	3.5	.55	
Tetrachlorobiphenyl	ug	3.9	2.5	2.1	2.9	3.2	2.8	2.0	4.3	
Trichlorobiphenyl	ug	1.5	1.1	.94	1.3	1.5	1.2	.91	1.9	

Footnotes: BMDL - Below Method Detection Limit n/a - Parameter not tested ND - None

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2241092-331
 Sample ID (TCT#).....282073
 Analysis Date.....4/17/92
 Filename.....V20417F
 Analyst.....MJK
 Sample Amount..... 0.50 sample
 ICAL Date.....1/6/92
 CCAL Filename.....V20417C
 Extraction Date.....4/13/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.15	-----	2378-TCDF-C13....	2.00	226
TOTAL TCDF	0.15	-----	2378-TCDD-C13....	2.00	152
			12378-PeCDF-C13..	2.00	50
2378-TCDD	0.15	-----	23478-PeCDF-C13..	2.00	139
TOTAL TCDD	0.15	-----	12378-PeCDD-C13..	2.00	46
			123478-HxCDF-C13.	2.00	379
12378-PeCDF	0.77	-----	123678-HxCDF-C13.	2.00	405
23478-PeCDF	0.83	-----	123789-HxCDF-C13.	2.00	195
TOTAL PeCDF	1.60	-----	234678-HxCDF-C13.	2.00	190
			123478-HxCDD-C13.	2.00	286
12378-PeCDD	0.62	-----	123678-HxCDD-C13.	2.00	227
TOTAL PeCDD	0.62	-----	1234678-HpCDF-C13	2.00	208
			1234789-HpCDF-C13	2.00	640
123478-HxCDF	0.82	-----	1234678-HpCDD-C13	2.00	491
123678-HxCDF	0.80	-----	OCDD-C13.....	4.00	958
123789-HxCDF	0.81	-----			
234678-HxCDF	0.78	-----	1234-TCDD-C13....	2.00	na
TOTAL HxCDF	3.20	-----	123789-HxCDD-C13.	2.00	na
123478-HxCDD	0.74	-----	2378-TCDD-C137...	0.20	61
123678-HxCDD	0.96	-----			
123789-HxCDD	0.71	-----			
TOTAL HxCDD	2.40	-----			
1234678-HpCDF	0.91	-----			
1234789-HpCDF	0.82	-----			
TOTAL HpCDF	1.70	-----			
1234678-HpCDD	0.99	-----			
TOTAL HpCDD	0.99	-----			
OCDF	1.90	-----	Total 2378-TCDD		
OCDD	3.90	-----	Equivalence =	1.5 ng/sample	
			(Using 1989 ITE Factors)		

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected