

EMTEQUE CORPORATION

Client Sample ID: D-6-04

Trace Level Organic Compounds

Lot-Sample #...: G1J270136-001 Work Order #...: EMX2G1AA Matrix.....: WIPE
 Date Sampled...: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/28/01
 Prep Batch #...: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	10 J		pg	SW846 8290
Total TCDD	2000		pg	SW846 8290
1,2,3,7,8-PeCDD	ND	38	pg	SW846 8290
Total PeCDD	2800		pg	SW846 8290
1,2,3,4,7,8-HxCDD	ND	32	pg	SW846 8290
1,2,3,6,7,8-HxCDD	62 J		pg	SW846 8290
1,2,3,7,8,9-HxCDD	53 J		pg	SW846 8290
Total HxCDD	2300		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	260		pg	SW846 8290
Total HpCDD	590		pg	SW846 8290
OCDD	440		pg	SW846 8290
2,3,7,8-TCDF	51 CON		pg	SW846 8290
Total TCDF	1200		pg	SW846 8290
1,2,3,7,8-PeCDF	87 J		pg	SW846 8290
2,3,4,7,8-PeCDF	110		pg	SW846 8290
Total PeCDF	1300		pg	SW846 8290
1,2,3,4,7,8-HxCDF	100		pg	SW846 8290
1,2,3,6,7,8-HxCDF	82 J		pg	SW846 8290
2,3,4,6,7,8-HxCDF	65 J		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	6.4	pg	SW846 8290
Total HxCDF	660		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	240		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	24	pg	SW846 8290
Total HpCDF	240		pg	SW846 8290
OCDF	ND	88	pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	75	(40 - 135)
13C-1,2,3,7,8-PeCDD	86	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	91	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	91	(40 - 135)
13C-OCDD	91	(40 - 135)
13C-2,3,7,8-TCDF	84	(40 - 135)
13C-1,2,3,7,8-PeCDF	89	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	82	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	87	(40 - 135)

NOTE(S):

J Estimated result. Result is less than the reporting limit.
 CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-6-05

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-002 Work Order #....: EMX2L1AA Matrix.....: WIPE
 Date Sampled...: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/28/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	5.4	pg	SW846 8290
Total TCDD	830		pg	SW846 8290
1,2,3,7,8-PeCDD	ND	11	pg	SW846 8290
Total PeCDD	690		pg	SW846 8290
1,2,3,4,7,8-HxCDD	ND	8.2	pg	SW846 8290
1,2,3,6,7,8-HxCDD	ND	18	pg	SW846 8290
1,2,3,7,8,9-HxCDD	ND	13	pg	SW846 8290
Total HxCDD	530		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	55 J		pg	SW846 8290
Total HpCDD	130		pg	SW846 8290
OCDD	ND	73	pg	SW846 8290
2,3,7,8-TCDF	15 J, CON		pg	SW846 8290
Total TCDF	610		pg	SW846 8290
1,2,3,7,8-PeCDF	ND	23	pg	SW846 8290
2,3,4,7,8-PeCDF	ND	30	pg	SW846 8290
Total PeCDF	100		pg	SW846 8290
1,2,3,4,7,8-HxCDF	ND	24	pg	SW846 8290
1,2,3,6,7,8-HxCDF	ND	21	pg	SW846 8290
2,3,4,6,7,8-HxCDF	ND	17	pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	2.6	pg	SW846 8290
Total HxCDF	ND	44	pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	50 J		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	4.9	pg	SW846 8290
Total HpCDF	50		pg	SW846 8290
OCDF	ND	19	pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	(40 - 135)
13C-1,2,3,7,8-PeCDD	100	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	87	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	88	(40 - 135)
13C-OCDD	88	(40 - 135)
13C-2,3,7,8-TCDF	89	(40 - 135)
13C-1,2,3,7,8-PeCDF	106	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	79	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	83	(40 - 135)

NOTE(S) :

J Estimated result. Result is less than the reporting limit.

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-6-06

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-003 Work Order #....: EMX2P1AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/28/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	7.1	pg	SW846 8290
Total TCDD	880		pg	SW846 8290
1,2,3,7,8-PeCDD	ND	37	pg	SW846 8290
Total PeCDD	2200		pg	SW846 8290
1,2,3,4,7,8-HxCDD	ND	38	pg	SW846 8290
1,2,3,6,7,8-HxCDD	71 J		pg	SW846 8290
1,2,3,7,8,9-HxCDD	60 J		pg	SW846 8290
Total HxCDD	2600		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	240		pg	SW846 8290
Total HpCDD	590		pg	SW846 8290
OCDD	310		pg	SW846 8290
2,3,7,8-TCDF	30 CON		pg	SW846 8290
Total TCDF	740		pg	SW846 8290
1,2,3,7,8-PeCDF	65 J		pg	SW846 8290
2,3,4,7,8-PeCDF	110		pg	SW846 8290
Total PeCDF	1100		pg	SW846 8290
1,2,3,4,7,8-HxCDF	100		pg	SW846 8290
1,2,3,6,7,8-HxCDF	72 J		pg	SW846 8290
2,3,4,6,7,8-HxCDF	76 J		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	7.8	pg	SW846 8290
Total HxCDF	690		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	260		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	33	pg	SW846 8290
Total HpCDF	260		pg	SW846 8290
OCDF	ND	89	pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	(40 - 135)
13C-1,2,3,7,8-PeCDD	81	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	78	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	86	(40 - 135)
13C-OCDD	92	(40 - 135)
13C-2,3,7,8-TCDF	86	(40 - 135)
13C-1,2,3,7,8-PeCDF	87	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	78	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	78	(40 - 135)

NOTE (S) :

J Estimated result. Result is less than the reporting limit.

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-6-07

Trace Level Organic Compounds

Lot-Sample #...: G1J270136-004 Work Order #...: EMX2Q1AA Matrix.....: WIPE
 Date Sampled...: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #...: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	13 J		pg	SW846 8290
Total TCDD	2100		pg	SW846 8290
1,2,3,7,8-PeCDD	89 J		pg	SW846 8290
Total PeCDD	5500		pg	SW846 8290
1,2,3,4,7,8-HxCDD	110		pg	SW846 8290
1,2,3,6,7,8-HxCDD	110		pg	SW846 8290
1,2,3,7,8,9-HxCDD	190		pg	SW846 8290
Total HxCDD	6300		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	330		pg	SW846 8290
Total HpCDD	1200		pg	SW846 8290
OCDD	470		pg	SW846 8290
2,3,7,8-TCDF	76 COM		pg	SW846 8290
Total TCDF	1500		pg	SW846 8290
1,2,3,7,8-PeCDF	140		pg	SW846 8290
2,3,4,7,8-PeCDF	240		pg	SW846 8290
Total PeCDF	2800		pg	SW846 8290
1,2,3,4,7,8-HxCDF	160		pg	SW846 8290
1,2,3,6,7,8-HxCDF	ND	36	pg	SW846 8290
2,3,4,6,7,8-HxCDF	ND	39	pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	12	pg	SW846 8290
Total HxCDF	780		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	320 JA		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	80 J		pg	SW846 8290
Total HpCDF	810		pg	SW846 8290
OCDF	130 J		pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	(40 - 135)
13C-1,2,3,7,8-PeCDD	74	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	89	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	106	(40 - 135)
13C-OCDD	180 *	(40 - 135)
13C-2,3,7,8-TCDF	90	(40 - 135)
13C-1,2,3,7,8-PeCDF	67	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	160 *	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	66	(40 - 135)

NOTE(S) :

J Estimated result. Result is less than the reporting limit.

CON Confirmation analysis.

JA The analyte was positively identified, but the quantitation is an estimate.

* Surrogate recovery is outside stated control limits.

EMTEQUE CORPORATION

Client Sample ID: D-6-08

Trace Level Organic Compounds

Lot-Sample #...: G1J270136-005 Work Order #...: EMX2R1AA Matrix.....: WIPE
 Date Sampled...: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #...: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	50		pg	SW846 8290
Total TCDD	8000		pg	SW846 8290
1,2,3,7,8-PeCDD	220		pg	SW846 8290
Total PeCDD	13000		pg	SW846 8290
1,2,3,4,7,8-HxCDD	120		pg	SW846 8290
1,2,3,6,7,8-HxCDD	210		pg	SW846 8290
1,2,3,7,8,9-HxCDD	210		pg	SW846 8290
Total HxCDD	8300		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	710		pg	SW846 8290
Total HpCDD	1600		pg	SW846 8290
OCDD	1100		pg	SW846 8290
2,3,7,8-TCDF	260 CON		pg	SW846 8290
Total TCDF	6200		pg	SW846 8290
1,2,3,7,8-PeCDF	450		pg	SW846 8290
2,3,4,7,8-PeCDF	610		pg	SW846 8290
Total PeCDF	7600		pg	SW846 8290
1,2,3,4,7,8-HxCDF	390		pg	SW846 8290
1,2,3,6,7,8-HxCDF	340		pg	SW846 8290
2,3,4,6,7,8-HxCDF	320		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	34	pg	SW846 8290
Total HxCDF	3500		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	820		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	130		pg	SW846 8290
Total HpCDF	1400		pg	SW846 8290
OCDF	370		pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	87	(40 - 135)
13C-1,2,3,7,8-PeCDD	93	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	94	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	99	(40 - 135)
13C-OCDD	104	(40 - 135)
13C-2,3,7,8-TCDF	96	(40 - 135)
13C-1,2,3,7,8-PeCDF	102	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	88	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	94	(40 - 135)

NOTE(S) :

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-6-09

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-006 Work Order #....: EMX2T1AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	3.3	pg	SW846 8290
Total TCDD	180		pg	SW846 8290
1,2,3,7,8-PeCDD	ND	10	pg	SW846 8290
Total PeCDD	570		pg	SW846 8290
1,2,3,4,7,8-HxCDD	ND	19	pg	SW846 8290
1,2,3,6,7,8-HxCDD	ND	29	pg	SW846 8290
1,2,3,7,8,9-HxCDD	ND	42	pg	SW846 8290
Total HxCDD	880		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	120		pg	SW846 8290
Total HpCDD	300		pg	SW846 8290
OCDD	200		pg	SW846 8290
2,3,7,8-TCDF	ND CON	7.0	pg	SW846 8290
Total TCDF	98		pg	SW846 8290
1,2,3,7,8-PeCDF	ND	22	pg	SW846 8290
2,3,4,7,8-PeCDF	ND	43	pg	SW846 8290
Total PeCDF	130		pg	SW846 8290
1,2,3,4,7,8-HxCDF	ND	40	pg	SW846 8290
1,2,3,6,7,8-HxCDF	ND	24	pg	SW846 8290
2,3,4,6,7,8-HxCDF	ND	28	pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	3.3	pg	SW846 8290
Total HxCDF	85		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	110		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	19	pg	SW846 8290
Total HpCDF	110		pg	SW846 8290
OCDF	ND	45	pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	87	(40 - 135)
13C-1,2,3,7,8-PeCDD	90	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	90	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	96	(40 - 135)
13C-OCDD	106	(40 - 135)
13C-2,3,7,8-TCDF	98	(40 - 135)
13C-1,2,3,7,8-PeCDF	95	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	94	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	85	(40 - 135)

NOTE(S) :

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-6-10

Trace Level Organic Compounds

Lot-Sample #...: G1J270136-007 Work Order #...: EMX2V1AA Matrix.....: WIPE
 Date Sampled...: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #...: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	8.0	pg	SW846 8290
Total TCDD	1700		pg	SW846 8290
1,2,3,7,8-PeCDD	ND	26	pg	SW846 8290
Total PeCDD	1700		pg	SW846 8290
1,2,3,4,7,8-HxCDD	ND	35	pg	SW846 8290
1,2,3,6,7,8-HxCDD	ND	49	pg	SW846 8290
1,2,3,7,8,9-HxCDD	51 J		pg	SW846 8290
Total HxCDD	2200		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	280		pg	SW846 8290
Total HpCDD	810		pg	SW846 8290
OCDD	550		pg	SW846 8290
2,3,7,8-TCDF	36 CON		pg	SW846 8290
Total TCDF	1400		pg	SW846 8290
1,2,3,7,8-PeCDF	69 J		pg	SW846 8290
2,3,4,7,8-PeCDF	77 J		pg	SW846 8290
Total PeCDF	1200		pg	SW846 8290
1,2,3,4,7,8-HxCDF	90 J		pg	SW846 8290
1,2,3,6,7,8-HxCDF	ND	47	pg	SW846 8290
2,3,4,6,7,8-HxCDF	ND	37	pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	4.3	pg	SW846 8290
Total HxCDF	530		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	370		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	69 J		pg	SW846 8290
Total HpCDF	730		pg	SW846 8290
OCDF	240		pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	(40 - 135)
13C-1,2,3,7,8-PeCDD	91	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	66	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	77	(40 - 135)
13C-OCDD	99	(40 - 135)
13C-2,3,7,8-TCDF	97	(40 - 135)
13C-1,2,3,7,8-PeCDF	93	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	87	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	59	(40 - 135)

NOTE(S) :

J Estimated result. Result is less than the reporting limit.
 CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-6-11

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-008 Work Order #....: EMX2W1AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	20		pg	SW846 8290
Total TCDD	3500		pg	SW846 8290
1,2,3,7,8-PeCDD	110		pg	SW846 8290
Total PeCDD	7300		pg	SW846 8290
1,2,3,4,7,8-HxCDD	68 J		pg	SW846 8290
1,2,3,6,7,8-HxCDD	130		pg	SW846 8290
1,2,3,7,8,9-HxCDD	120		pg	SW846 8290
Total HxCDD	5000		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	450		pg	SW846 8290
Total HpCDD	1100		pg	SW846 8290
OCDD	690		pg	SW846 8290
2,3,7,8-TCDF	100 CON		pg	SW846 8290
Total TCDF	2500		pg	SW846 8290
1,2,3,7,8-PeCDF	190		pg	SW846 8290
2,3,4,7,8-PeCDF	290		pg	SW846 8290
Total PeCDF	3500		pg	SW846 8290
1,2,3,4,7,8-HxCDF	200		pg	SW846 8290
1,2,3,6,7,8-HxCDF	150		pg	SW846 8290
2,3,4,6,7,8-HxCDF	150		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	13	pg	SW846 8290
Total HxCDF	1600		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	450		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	55 J		pg	SW846 8290
Total HpCDF	690		pg	SW846 8290
OCDF	200 J		pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	(40 - 135)
13C-1,2,3,7,8-PeCDD	90	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	87	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	86	(40 - 135)
13C-OCDD	92	(40 - 135)
13C-2,3,7,8-TCDF	98	(40 - 135)
13C-1,2,3,7,8-PeCDF	99	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	82	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	81	(40 - 135)

NOTE(S) :

J Estimated result. Result is less than the reporting limit.
 CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-8-03

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-009 Work Order #....: EMX2X1AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	23		pg	SW846 8290
Total TCDD	4500		pg	SW846 8290
1,2,3,7,8-PeCDD	170		pg	SW846 8290
Total PeCDD	10000		pg	SW846 8290
1,2,3,4,7,8-HxCDD	79 J		pg	SW846 8290
1,2,3,6,7,8-HxCDD	150		pg	SW846 8290
1,2,3,7,8,9-HxCDD	140		pg	SW846 8290
Total HxCDD	6200		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	380		pg	SW846 8290
Total HpCDD	900		pg	SW846 8290
OCDD	390		pg	SW846 8290
2,3,7,8-TCDF	180 CON		pg	SW846 8290
Total TCDF	3400		pg	SW846 8290
1,2,3,7,8-PeCDF	270		pg	SW846 8290
2,3,4,7,8-PeCDF	400		pg	SW846 8290
Total PeCDF	4500		pg	SW846 8290
1,2,3,4,7,8-HxCDF	250		pg	SW846 8290
1,2,3,6,7,8-HxCDF	200		pg	SW846 8290
2,3,4,6,7,8-HxCDF	160		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	12	pg	SW846 8290
Total HxCDF	1600		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	350		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	34	pg	SW846 8290
Total HpCDF	460		pg	SW846 8290
OCDF	ND	98	pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	78	(40 - 135)
13C-1,2,3,7,8-PeCDD	88	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	91	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	94	(40 - 135)
13C-OCDD	96	(40 - 135)
13C-2,3,7,8-TCDF	93	(40 - 135)
13C-1,2,3,7,8-PeCDF	94	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	86	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	91	(40 - 135)

NOTE(S) :

J Estimated result. Result is less than the reporting limit.

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-8-06

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-012 Work Order #....: EMX231AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	140		pg	SW846 8290
Total TCDD	38000		pg	SW846 8290
1,2,3,7,8-PeCDD	470		pg	SW846 8290
Total PeCDD	40000		pg	SW846 8290
1,2,3,4,7,8-HxCDD	220		pg	SW846 8290
1,2,3,6,7,8-HxCDD	430		pg	SW846 8290
1,2,3,7,8,9-HxCDD	400		pg	SW846 8290
Total HxCDD	18000		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	1400		pg	SW846 8290
Total HpCDD	3100		pg	SW846 8290
OCDD	1900		pg	SW846 8290
2,3,7,8-TCDF	840 CON		pg	SW846 8290
Total TCDF	25000		pg	SW846 8290
1,2,3,7,8-PeCDF	1000		pg	SW846 8290
2,3,4,7,8-PeCDF	1200		pg	SW846 8290
Total PeCDF	20000		pg	SW846 8290
1,2,3,4,7,8-HxCDF	750		pg	SW846 8290
1,2,3,6,7,8-HxCDF	620		pg	SW846 8290
2,3,4,6,7,8-HxCDF	530		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	45	pg	SW846 8290
Total HxCDF	6300		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	1400		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	160		pg	SW846 8290
Total HpCDF	2100		pg	SW846 8290
OCDF	580		pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	82	(40 - 135)
13C-1,2,3,7,8-PeCDD	90	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	91	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	93	(40 - 135)
13C-OCDD	91	(40 - 135)
13C-2,3,7,8-TCDF	96	(40 - 135)
13C-1,2,3,7,8-PeCDF	100	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	88	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	88	(40 - 135)

NOTE(S) :

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-8-07

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-013 Work Order #....: EMX261AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	120		pg	SW846 8290
Total TCDD	46000		pg	SW846 8290
1,2,3,7,8-PeCDD	630		pg	SW846 8290
Total PeCDD	49000		pg	SW846 8290
1,2,3,4,7,8-HxCDD	300		pg	SW846 8290
1,2,3,6,7,8-HxCDD	590		pg	SW846 8290
1,2,3,7,8,9-HxCDD	510		pg	SW846 8290
Total HxCDD	24000		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	1800		pg	SW846 8290
Total HpCDD	4200		pg	SW846 8290
OCDD	2400		pg	SW846 8290
2,3,7,8-TCDF	1200 CON		pg	SW846 8290
Total TCDF	30000		pg	SW846 8290
1,2,3,7,8-PeCDF	1300		pg	SW846 8290
2,3,4,7,8-PeCDF	1700		pg	SW846 8290
Total PeCDF	25000		pg	SW846 8290
1,2,3,4,7,8-HxCDF	950		pg	SW846 8290
1,2,3,6,7,8-HxCDF	800		pg	SW846 8290
2,3,4,6,7,8-HxCDF	720		pg	SW846 8290
1,2,3,7,8,9-HxCDF	58 J		pg	SW846 8290
Total HxCDF	8200		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	1900		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	230		pg	SW846 8290
Total HpCDF	2800		pg	SW846 8290
OCDF	700		pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	76	(40 - 135)
13C-1,2,3,7,8-PeCDD	82	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	78	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	82	(40 - 135)
13C-OCDD	86	(40 - 135)
13C-2,3,7,8-TCDF	88	(40 - 135)
13C-1,2,3,7,8-PeCDF	91	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	77	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	77	(40 - 135)

NOTE(S):

CON Confirmation analysis.

J Estimated result. Result is less than the reporting limit.

EMTEQUE CORPORATION

Client Sample ID: D-8-09

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-015 Work Order #....: EMX3D1AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	53		pg	SW846 8290
Total TCDD	16000		pg	SW846 8290
1,2,3,7,8-PeCDD	240		pg	SW846 8290
Total PeCDD	19000		pg	SW846 8290
1,2,3,4,7,8-HxCDD	140		pg	SW846 8290
1,2,3,6,7,8-HxCDD	240		pg	SW846 8290
1,2,3,7,8,9-HxCDD	240		pg	SW846 8290
Total HxCDD	9900		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	870		pg	SW846 8290
Total HpCDD	2200		pg	SW846 8290
OCDD	1300		pg	SW846 8290
2,3,7,8-TCDF	480 CON		pg	SW846 8290
Total TCDF	12000		pg	SW846 8290
1,2,3,7,8-PeCDF	530		pg	SW846 8290
2,3,4,7,8-PeCDF	720		pg	SW846 8290
Total PeCDF	10000		pg	SW846 8290
1,2,3,4,7,8-HxCDF	440		pg	SW846 8290
1,2,3,6,7,8-HxCDF	310		pg	SW846 8290
2,3,4,6,7,8-HxCDF	270		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	35	pg	SW846 8290
Total HxCDF	3700		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	960		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	160		pg	SW846 8290
Total HpCDF	1700		pg	SW846 8290
OCDF	430		pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	89	(40 - 135)
13C-1,2,3,7,8-PeCDD	85	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	78	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	78	(40 - 135)
13C-OCDD	86	(40 - 135)
13C-2,3,7,8-TCDF	99	(40 - 135)
13C-1,2,3,7,8-PeCDF	94	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	80	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	70	(40 - 135)

NOTE(S):

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-8-10

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-016 Work Order #....: EMX3E1AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	5.0	pg	SW846 8290
Total TCDD	440		pg	SW846 8290
1,2,3,7,8-PeCDD	ND	13	pg	SW846 8290
Total PeCDD	700		pg	SW846 8290
1,2,3,4,7,8-HxCDD	ND	15	pg	SW846 8290
1,2,3,6,7,8-HxCDD	ND	25	pg	SW846 8290
1,2,3,7,8,9-HxCDD	ND	30	pg	SW846 8290
Total HxCDD	710		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	75 J		pg	SW846 8290
Total HpCDD	180		pg	SW846 8290
OCDD	160 J		pg	SW846 8290
2,3,7,8-TCDF	11 J, CON		pg	SW846 8290
Total TCDF	330		pg	SW846 8290
1,2,3,7,8-PeCDF	ND	22	pg	SW846 8290
2,3,4,7,8-PeCDF	ND	38	pg	SW846 8290
Total PeCDF	210		pg	SW846 8290
1,2,3,4,7,8-HxCDF	ND	36	pg	SW846 8290
1,2,3,6,7,8-HxCDF	ND	20	pg	SW846 8290
2,3,4,6,7,8-HxCDF	ND	17	pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	6.8	pg	SW846 8290
Total HxCDF	51		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	55 J		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	8.1	pg	SW846 8290
Total HpCDF	55		pg	SW846 8290
OCDF	ND	20	pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	(40 - 135)
13C-1,2,3,7,8-PeCDD	89	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	89	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	86	(40 - 135)
13C-OCDD	84	(40 - 135)
13C-2,3,7,8-TCDF	82	(40 - 135)
13C-1,2,3,7,8-PeCDF	72	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	90	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	80	(40 - 135)

NOTE(S) :

J Estimated result. Result is less than the reporting limit.
 CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-8-11

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-017 Work Order #....: EMX3F1AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	13	pg	SW846 8290
Total TCDD	43		pg	SW846 8290
1,2,3,7,8-PeCDD	ND	12	pg	SW846 8290
Total PeCDD	ND	26	pg	SW846 8290
1,2,3,4,7,8-HxCDD	ND	7.5	pg	SW846 8290
1,2,3,6,7,8-HxCDD	ND	7.6	pg	SW846 8290
1,2,3,7,8,9-HxCDD	ND	7.0	pg	SW846 8290
Total HxCDD	ND	42	pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	13	pg	SW846 8290
Total HpCDD	ND	13	pg	SW846 8290
OCDD	ND	46	pg	SW846 8290
2,3,7,8-TCDF	ND CON	3.1	pg	SW846 8290
Total TCDF	12		pg	SW846 8290
1,2,3,7,8-PeCDF	ND	6.4	pg	SW846 8290
2,3,4,7,8-PeCDF	ND	6.3	pg	SW846 8290
Total PeCDF	ND	15	pg	SW846 8290
1,2,3,4,7,8-HxCDF	ND	7.1	pg	SW846 8290
1,2,3,6,7,8-HxCDF	ND	6.4	pg	SW846 8290
2,3,4,6,7,8-HxCDF	ND	6.8	pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	7.2	pg	SW846 8290
Total HxCDF	ND	7.1	pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	10	pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	2.4	pg	SW846 8290
Total HpCDF	ND	10	pg	SW846 8290
OCDF	ND	7.3	pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	79	(40 - 135)
13C-1,2,3,7,8-PeCDD	83	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	85	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	86	(40 - 135)
13C-OCDD	84	(40 - 135)
13C-2,3,7,8-TCDF	74	(40 - 135)
13C-1,2,3,7,8-PeCDF	72	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	80	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	86	(40 - 135)

NOTE(S) :

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-10-02

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-018 Work Order #....: EMX3G1AA
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

Matrix.....: WIPE

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	9.6	pg	SW846 8290
Total TCDD	150		pg	SW846 8290
1,2,3,7,8-PeCDD	ND	13	pg	SW846 8290
Total PeCDD	360		pg	SW846 8290
1,2,3,4,7,8-HxCDD	ND	13	pg	SW846 8290
1,2,3,6,7,8-HxCDD	ND	19	pg	SW846 8290
1,2,3,7,8,9-HxCDD	ND	29	pg	SW846 8290
Total HxCDD	610		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	82 J		pg	SW846 8290
Total HpCDD	210		pg	SW846 8290
OCDD	110 J		pg	SW846 8290
2,3,7,8-TCDF	ND CON	5.9	pg	SW846 8290
Total TCDF	95		pg	SW846 8290
1,2,3,7,8-PeCDF	ND	15	pg	SW846 8290
2,3,4,7,8-PeCDF	ND	27	pg	SW846 8290
Total PeCDF	ND	41	pg	SW846 8290
1,2,3,4,7,8-HxCDF	ND	35	pg	SW846 8290
1,2,3,6,7,8-HxCDF	ND	19	pg	SW846 8290
2,3,4,6,7,8-HxCDF	ND	17	pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	5.5	pg	SW846 8290
Total HxCDF	ND	46	pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	84 J		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	11	pg	SW846 8290
Total HpCDF	84		pg	SW846 8290
OCDF	ND	36	pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	83	(40 - 135)
13C-1,2,3,7,8-PeCDD	73	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	73	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	75	(40 - 135)
13C-OCDD	82	(40 - 135)
13C-2,3,7,8-TCDF	72	(40 - 135)
13C-1,2,3,7,8-PeCDF	64	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	83	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	70	(40 - 135)

NOTE(S) :

J Estimated result. Result is less than the reporting limit.

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-10-03

Trace Level Organic Compounds

Lot-Sample #...: G1J270136-019 Work Order #...: EMX3H1AA Matrix.....: WIPE
 Date Sampled...: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #...: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	8.6	pg	SW846 8290
Total TCDD	1400		pg	SW846 8290
1,2,3,7,8-PeCDD	52 J		pg	SW846 8290
Total PeCDD	3100		pg	SW846 8290
1,2,3,4,7,8-HxCDD	ND	44	pg	SW846 8290
1,2,3,6,7,8-HxCDD	75 J		pg	SW846 8290
1,2,3,7,8,9-HxCDD	51 J		pg	SW846 8290
Total HxCDD	3000		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	230		pg	SW846 8290
Total HpCDD	600		pg	SW846 8290
OCDD	310		pg	SW846 8290
2,3,7,8-TCDF	49 CON		pg	SW846 8290
Total TCDF	1200		pg	SW846 8290
1,2,3,7,8-PeCDF	90 J		pg	SW846 8290
2,3,4,7,8-PeCDF	140		pg	SW846 8290
Total PeCDF	1600		pg	SW846 8290
1,2,3,4,7,8-HxCDF	130		pg	SW846 8290
1,2,3,6,7,8-HxCDF	64 J		pg	SW846 8290
2,3,4,6,7,8-HxCDF	54 J		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	7.4	pg	SW846 8290
Total HxCDF	670		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	220		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	22	pg	SW846 8290
Total HpCDF	220		pg	SW846 8290
OCDF	ND	46	pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	87	(40 - 135)
13C-1,2,3,7,8-PeCDD	80	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	71	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	73	(40 - 135)
13C-OCDD	82	(40 - 135)
13C-2,3,7,8-TCDF	77	(40 - 135)
13C-1,2,3,7,8-PeCDF	68	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	84	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	67	(40 - 135)

NOTE(S):

J Estimated result. Result is less than the reporting limit.

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-10-04

Trace Level Organic Compounds

Lot-Sample #...: G1J270136-020 Work Order #...: EMX3J1AA Matrix.....: WIPE
 Date Sampled...: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #...: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	72		pg	SW846 8290
Total TCDD	20000		pg	SW846 8290
1,2,3,7,8-PeCDD	220		pg	SW846 8290
Total PeCDD	18000		pg	SW846 8290
1,2,3,4,7,8-HxCDD	130		pg	SW846 8290
1,2,3,6,7,8-HxCDD	220		pg	SW846 8290
1,2,3,7,8,9-HxCDD	140		pg	SW846 8290
Total HxCDD	9200		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	730		pg	SW846 8290
Total HpCDD	1700		pg	SW846 8290
OCDD	1200		pg	SW846 8290
2,3,7,8-TCDF	430 CON		pg	SW846 8290
Total TCDF	15000		pg	SW846 8290
1,2,3,7,8-PeCDF	500		pg	SW846 8290
2,3,4,7,8-PeCDF	610		pg	SW846 8290
Total PeCDF	10000		pg	SW846 8290
1,2,3,4,7,8-HxCDF	480		pg	SW846 8290
1,2,3,6,7,8-HxCDF	280		pg	SW846 8290
2,3,4,6,7,8-HxCDF	230		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	22	pg	SW846 8290
Total HxCDF	3400		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	800		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	130		pg	SW846 8290
Total HpCDF	1400		pg	SW846 8290
OCDF	450		pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	(40 - 135)
13C-1,2,3,7,8-PeCDD	88	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	89	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	91	(40 - 135)
13C-OCDD	94	(40 - 135)
13C-2,3,7,8-TCDF	82	(40 - 135)
13C-1,2,3,7,8-PeCDF	88	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	96	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	87	(40 - 135)

NOTE(S) :

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-10-06

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-022 Work Order #....: EMX3L1AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	31		pg	SW846 8290
Total TCDD	3500		pg	SW846 8290
1,2,3,7,8-PeCDD	240		pg	SW846 8290
Total PeCDD	15000		pg	SW846 8290
1,2,3,4,7,8-HxCDD	220		pg	SW846 8290
1,2,3,6,7,8-HxCDD	330		pg	SW846 8290
1,2,3,7,8,9-HxCDD	200		pg	SW846 8290
Total HxCDD	14000		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	980		pg	SW846 8290
Total HpCDD	2700		pg	SW846 8290
OCDD	930		pg	SW846 8290
2,3,7,8-TCDF	120 CON		pg	SW846 8290
Total TCDF	3200		pg	SW846 8290
1,2,3,7,8-PeCDF	370		pg	SW846 8290
2,3,4,7,8-PeCDF	670		pg	SW846 8290
Total PeCDF	6700		pg	SW846 8290
1,2,3,4,7,8-HxCDF	660		pg	SW846 8290
1,2,3,6,7,8-HxCDF	320		pg	SW846 8290
2,3,4,6,7,8-HxCDF	270		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	47	pg	SW846 8290
Total HxCDF	4100		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	1100		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	180		pg	SW846 8290
Total HpCDF	1800		pg	SW846 8290
OCDF	300		pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	82	(40 - 135)
13C-1,2,3,7,8-PeCDD	70	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	75	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	77	(40 - 135)
13C-OCDD	88	(40 - 135)
13C-2,3,7,8-TCDF	75	(40 - 135)
13C-1,2,3,7,8-PeCDF	67	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	89	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	68	(40 - 135)

NOTE(S) :

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-10-07

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-023 Work Order #....: EMX3Q1AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	65		pg	SW846 8290
Total TCDD	10000		pg	SW846 8290
1,2,3,7,8-PeCDD	240		pg	SW846 8290
Total PeCDD	18000		pg	SW846 8290
1,2,3,4,7,8-HxCDD	160		pg	SW846 8290
1,2,3,6,7,8-HxCDD	270		pg	SW846 8290
1,2,3,7,8,9-HxCDD	160		pg	SW846 8290
Total HxCDD	11000		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	850		pg	SW846 8290
Total HpCDD	2200		pg	SW846 8290
OCDD	910		pg	SW846 8290
2,3,7,8-TCDF	370 CON		pg	SW846 8290
Total TCDF	8400		pg	SW846 8290
1,2,3,7,8-PeCDF	540		pg	SW846 8290
2,3,4,7,8-PeCDF	810		pg	SW846 8290
Total PeCDF	11000		pg	SW846 8290
1,2,3,4,7,8-HxCDF	550		pg	SW846 8290
1,2,3,6,7,8-HxCDF	290		pg	SW846 8290
2,3,4,6,7,8-HxCDF	250		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	34	pg	SW846 8290
Total HxCDF	4100		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	970		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	190		pg	SW846 8290
Total HpCDF	1800		pg	SW846 8290
OCDF	510		pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	71	(40 - 135)
13C-1,2,3,7,8-PeCDD	77	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	72	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	77	(40 - 135)
13C-OCDD	86	(40 - 135)
13C-2,3,7,8-TCDF	67	(40 - 135)
13C-1,2,3,7,8-PeCDF	68	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	80	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	65	(40 - 135)

NOTE(S) :

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-10-08

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-024 Work Order #....: EMX3R1AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	10 J		pg	SW846 8290
Total TCDD	1400		pg	SW846 8290
1,2,3,7,8-PeCDD	ND	49	pg	SW846 8290
Total PeCDD	3100		pg	SW846 8290
1,2,3,4,7,8-HxCDD	60 J		pg	SW846 8290
1,2,3,6,7,8-HxCDD	100		pg	SW846 8290
1,2,3,7,8,9-HxCDD	68 J		pg	SW846 8290
Total HxCDD	4300		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	470		pg	SW846 8290
Total HpCDD	1100		pg	SW846 8290
OCDD	560		pg	SW846 8290
2,3,7,8-TCDF	44 CON		pg	SW846 8290
Total TCDF	1200		pg	SW846 8290
1,2,3,7,8-PeCDF	100		pg	SW846 8290
2,3,4,7,8-PeCDF	120		pg	SW846 8290
Total PeCDF	1500		pg	SW846 8290
1,2,3,4,7,8-HxCDF	220		pg	SW846 8290
1,2,3,6,7,8-HxCDF	120		pg	SW846 8290
2,3,4,6,7,8-HxCDF	97 J		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	12	pg	SW846 8290
Total HxCDF	1300		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	540		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	89 J		pg	SW846 8290
Total HpCDF	940		pg	SW846 8290
OCDF	270		pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	82	(40 - 135)
13C-1,2,3,7,8-PeCDD	90	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	85	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	105	(40 - 135)
13C-OCDD	107	(40 - 135)
13C-2,3,7,8-TCDF	76	(40 - 135)
13C-1,2,3,7,8-PeCDF	100	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	91	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	85	(40 - 135)

NOTE(S) :

J Estimated result. Result is less than the reporting limit.

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-10-09

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-025 Work Order #....: EMX3T1AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300163
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	16 J		pg	SW846 8290
Total TCDD	1900		pg	SW846 8290
1,2,3,7,8-PeCDD	ND	50	pg	SW846 8290
Total PeCDD	3100		pg	SW846 8290
1,2,3,4,7,8-HxCDD	ND	44	pg	SW846 8290
1,2,3,6,7,8-HxCDD	73 J		pg	SW846 8290
1,2,3,7,8,9-HxCDD	ND	42	pg	SW846 8290
Total HxCDD	2800		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	240		pg	SW846 8290
Total HpCDD	600		pg	SW846 8290
OCDD	250		pg	SW846 8290
2,3,7,8-TCDF	53 CON		pg	SW846 8290
Total TCDF	1500		pg	SW846 8290
1,2,3,7,8-PeCDF	87 J		pg	SW846 8290
2,3,4,7,8-PeCDF	150		pg	SW846 8290
Total PeCDF	1600		pg	SW846 8290
1,2,3,4,7,8-HxCDF	140		pg	SW846 8290
1,2,3,6,7,8-HxCDF	76 J		pg	SW846 8290
2,3,4,6,7,8-HxCDF	65 J		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	7.0	pg	SW846 8290
Total HxCDF	750		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	230		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	35	pg	SW846 8290
Total HpCDF	350		pg	SW846 8290
OCDF	ND	98	pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	92	(40 - 135)
13C-1,2,3,7,8-PeCDD	93	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	83	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	85	(40 - 135)
13C-OCDD	96	(40 - 135)
13C-2,3,7,8-TCDF	84	(40 - 135)
13C-1,2,3,7,8-PeCDF	79	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	83	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	75	(40 - 135)

NOTE(S) :

J Estimated result. Result is less than the reporting limit.

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-10-10

Trace Level Organic Compounds

Lot-Sample #....: GLJ270136-026 Work Order #....: EMX3V1AA Matrix.....: WIPE
 Date Sampled...: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300163
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	14 J		pg	SW846 8290
Total TCDD	2000		pg	SW846 8290
1,2,3,7,8-PeCDD	60 J		pg	SW846 8290
Total PeCDD	3500		pg	SW846 8290
1,2,3,4,7,8-HxCDD	ND	44	pg	SW846 8290
1,2,3,6,7,8-HxCDD	75 J		pg	SW846 8290
1,2,3,7,8,9-HxCDD	ND	49	pg	SW846 8290
Total HxCDD	2900		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	250		pg	SW846 8290
Total HpCDD	620		pg	SW846 8290
OCDD	280		pg	SW846 8290
2,3,7,8-TCDF	61 CON		pg	SW846 8290
Total TCDF	1400		pg	SW846 8290
1,2,3,7,8-PeCDF	99 J		pg	SW846 8290
2,3,4,7,8-PeCDF	170		pg	SW846 8290
Total PeCDF	1800		pg	SW846 8290
1,2,3,4,7,8-HxCDF	140		pg	SW846 8290
1,2,3,6,7,8-HxCDF	100		pg	SW846 8290
2,3,4,6,7,8-HxCDF	87 J		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	7.7	pg	SW846 8290
Total HxCDF	830		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	240		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	32	pg	SW846 8290
Total HpCDF	300		pg	SW846 8290
OCDF	ND	98	pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	97	(40 - 135)
13C-1,2,3,7,8-PeCDD	91	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	101	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	94	(40 - 135)
13C-OCDD	94	(40 - 135)
13C-2,3,7,8-TCDF	88	(40 - 135)
13C-1,2,3,7,8-PeCDF	84	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	94	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	92	(40 - 135)

NOTE(S) :

J Estimated result. Result is less than the reporting limit.

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-12-02

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-027 Work Order #....: EMX3W1AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300163
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	66		pg	SW846 8290
Total TCDD	6900		pg	SW846 8290
1,2,3,7,8-PeCDD	350		pg	SW846 8290
Total PeCDD	17000		pg	SW846 8290
1,2,3,4,7,8-HxCDD	230		pg	SW846 8290
1,2,3,6,7,8-HxCDD	410		pg	SW846 8290
1,2,3,7,8,9-HxCDD	280		pg	SW846 8290
Total HxCDD	16000		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	1200		pg	SW846 8290
Total HpCDD	2900		pg	SW846 8290
OCDD	1300		pg	SW846 8290
2,3,7,8-TCDF	240 CON		pg	SW846 8290
Total TCDF	4400		pg	SW846 8290
1,2,3,7,8-PeCDF	540		pg	SW846 8290
2,3,4,7,8-PeCDF	730		pg	SW846 8290
Total PeCDF	8500		pg	SW846 8290
1,2,3,4,7,8-HxCDF	730		pg	SW846 8290
1,2,3,6,7,8-HxCDF	400		pg	SW846 8290
2,3,4,6,7,8-HxCDF	410		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	36	pg	SW846 8290
Total HxCDF	4600		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	1100		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	150		pg	SW846 8290
Total HpCDF	1800		pg	SW846 8290
OCDF	460		pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	95	(40 - 135)
13C-1,2,3,7,8-PeCDD	99	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	84	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	91	(40 - 135)
13C-OCDD	98	(40 - 135)
13C-2,3,7,8-TCDF	107	(40 - 135)
13C-1,2,3,7,8-PeCDF	88	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	83	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	82	(40 - 135)

NOTE(S):

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-12-03

Trace Level Organic Compounds

Lot-Sample #...: G1J270136-028 Work Order #...: EMX3X1AA Matrix.....: WIPE
 Date Sampled...: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #...: 1300163
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	190		pg	SW846 8290
Total TCDD	61000		pg	SW846 8290
1,2,3,7,8-PeCDD	440		pg	SW846 8290
Total PeCDD	34000		pg	SW846 8290
1,2,3,4,7,8-HxCDD	210		pg	SW846 8290
1,2,3,6,7,8-HxCDD	420		pg	SW846 8290
1,2,3,7,8,9-HxCDD	230		pg	SW846 8290
Total HxCDD	16000		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	1300		pg	SW846 8290
Total HpCDD	2900		pg	SW846 8290
OCDD	2700		pg	SW846 8290
2,3,7,8-TCDF	1200 CON		pg	SW846 8290
Total TCDF	38000		pg	SW846 8290
1,2,3,7,8-PeCDF	1000		pg	SW846 8290
2,3,4,7,8-PeCDF	1500		pg	SW846 8290
Total PeCDF	22000		pg	SW846 8290
1,2,3,4,7,8-HxCDF	800		pg	SW846 8290
1,2,3,6,7,8-HxCDF	610		pg	SW846 8290
2,3,4,6,7,8-HxCDF	520		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	40	pg	SW846 8290
Total HxCDF	6300		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	1400		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	190		pg	SW846 8290
Total HpCDF	2200		pg	SW846 8290
OCDF	710		pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	(40 - 135)
13C-1,2,3,7,8-PeCDD	85	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	91	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	86	(40 - 135)
13C-OCDD	83	(40 - 135)
13C-2,3,7,8-TCDF	88	(40 - 135)
13C-1,2,3,7,8-PeCDF	73	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	88	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	83	(40 - 135)

NOTE(S):

CON Confirmation analysis.

EMTEQUE CORPORATION

Client Sample ID: D-12-05

Trace Level Organic Compounds

Lot-Sample #....: G1J270136-029 Work Order #....: EMX301AA Matrix.....: WIPE
 Date Sampled....: 10/26/01 Date Received...: 10/27/01
 Prep Date.....: 10/27/01 Analysis Date...: 10/29/01
 Prep Batch #....: 1300163
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	63		pg	SW846 8290
Total TCDD	7900		pg	SW846 8290
1,2,3,7,8-PeCDD	390		pg	SW846 8290
Total PeCDD	21000		pg	SW846 8290
1,2,3,4,7,8-HxCDD	300		pg	SW846 8290
1,2,3,6,7,8-HxCDD	480		pg	SW846 8290
1,2,3,7,8,9-HxCDD	300		pg	SW846 8290
Total HxCDD	19000		pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	1400		pg	SW846 8290
Total HpCDD	3700		pg	SW846 8290
OCDD	1600		pg	SW846 8290
2,3,7,8-TCDF	380 CON		pg	SW846 8290
Total TCDF	6500		pg	SW846 8290
1,2,3,7,8-PeCDF	660		pg	SW846 8290
2,3,4,7,8-PeCDF	900		pg	SW846 8290
Total PeCDF	9500		pg	SW846 8290
1,2,3,4,7,8-HxCDF	850		pg	SW846 8290
1,2,3,6,7,8-HxCDF	470		pg	SW846 8290
2,3,4,6,7,8-HxCDF	460		pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	41	pg	SW846 8290
Total HxCDF	5600		pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	1600		pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	260		pg	SW846 8290
Total HpCDF	2700		pg	SW846 8290
OCDF	680		pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	83	(40 - 135)
13C-1,2,3,7,8-PeCDD	64	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	82	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	85	(40 - 135)
13C-OCDD	96	(40 - 135)
13C-2,3,7,8-TCDF	69	(40 - 135)
13C-1,2,3,7,8-PeCDF	65	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	86	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	75	(40 - 135)

NOTE(S):

CON Confirmation analysis.

QC DATA ASSOCIATION SUMMARY

G1J270136

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WIPE	SW846 8290		1300162	
002	WIPE	SW846 8290		1300162	
003	WIPE	SW846 8290		1300162	
004	WIPE	SW846 8290		1300162	
005	WIPE	SW846 8290		1300162	
006	WIPE	SW846 8290		1300162	
007	WIPE	SW846 8290		1300162	
008	WIPE	SW846 8290		1300162	
009	WIPE	SW846 8290		1300162	
010	SOLID	SW846 8290		1300159	
011	SOLID	SW846 8290		1300159	
012	WIPE	SW846 8290		1300162	
013	WIPE	SW846 8290		1300162	
014	SOLID	SW846 8290		1300159	
015	WIPE	SW846 8290		1300162	
016	WIPE	SW846 8290		1300162	
017	WIPE	SW846 8290		1300162	
018	WIPE	SW846 8290		1300162	
019	WIPE	SW846 8290		1300162	
020	WIPE	SW846 8290		1300162	
021	SOLID	SW846 8290		1300159	

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

G1J270136

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
022	WIPE	SW846 8290		1300162	
023	WIPE	SW846 8290		1300162	
024	WIPE	SW846 8290		1300162	
025	WIPE	SW846 8290		1300163	
026	WIPE	SW846 8290		1300163	
027	WIPE	SW846 8290		1300163	
028	WIPE	SW846 8290		1300163	
029	WIPE	SW846 8290		1300163	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #....: G1J270136 Work Order #....: EM0F41AA Matrix.....: WIPE
 MB Lot-Sample #: G1J270000-162
 Analysis Date...: 10/28/01 Prep Date.....: 10/27/01
 Dilution Factor: 1 Prep Batch #....: 1300162

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	5.4	pg	SW846 8290
Total TCDD	ND	6.8	pg	SW846 8290
1,2,3,7,8-PeCDD	ND	9.1	pg	SW846 8290
Total PeCDD	ND	9.1	pg	SW846 8290
1,2,3,4,7,8-HxCDD	ND	4.4	pg	SW846 8290
1,2,3,6,7,8-HxCDD	ND	4.8	pg	SW846 8290
1,2,3,7,8,9-HxCDD	ND	4.3	pg	SW846 8290
Total HxCDD	ND	4.8	pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	3.5	pg	SW846 8290
Total HpCDD	ND	3.5	pg	SW846 8290
OCDD	ND	7.0	pg	SW846 8290
2,3,7,8-TCDF	ND	4.7	pg	SW846 8290
Total TCDF	ND	4.7	pg	SW846 8290
1,2,3,7,8-PeCDF	ND	5.8	pg	SW846 8290
2,3,4,7,8-PeCDF	ND	5.7	pg	SW846 8290
Total PeCDF	ND	5.9	pg	SW846 8290
1,2,3,4,7,8-HxCDF	ND	2.4	pg	SW846 8290
1,2,3,6,7,8-HxCDF	ND	2.3	pg	SW846 8290
2,3,4,6,7,8-HxCDF	ND	2.5	pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	2.7	pg	SW846 8290
Total HxCDF	ND	2.7	pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	3.8	pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	4.5	pg	SW846 8290
Total HpCDF	ND	4.5	pg	SW846 8290
OCDF	ND	5.3	pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	57	(40 - 135)
13C-1,2,3,7,8-PeCDD	73	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	81	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	86	(40 - 135)
13C-OCDD	88	(40 - 135)
13C-2,3,7,8-TCDF	63	(40 - 135)
13C-1,2,3,7,8-PeCDF	72	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	70	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	82	(40 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #....: G1J270136 Work Order #....: EM0F81AA Matrix.....: WIPE
 MB Lot-Sample #: G1J270000-163
 Analysis Date...: 10/28/01 Prep Date.....: 10/27/01
 Dilution Factor: 1 Prep Batch #....: 1300163

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	3.1	pg	SW846 8290
Total TCDD	ND	3.1	pg	SW846 8290
1,2,3,7,8-PeCDD	ND	4.5	pg	SW846 8290
Total PeCDD	ND	4.5	pg	SW846 8290
1,2,3,4,7,8-HxCDD	ND	2.3	pg	SW846 8290
1,2,3,6,7,8-HxCDD	ND	2.2	pg	SW846 8290
1,2,3,7,8,9-HxCDD	ND	2.2	pg	SW846 8290
Total HxCDD	ND	2.3	pg	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	1.1	pg	SW846 8290
Total HpCDD	ND	1.1	pg	SW846 8290
OCDD	ND	3.5	pg	SW846 8290
2,3,7,8-TCDF	ND	6.7	pg	SW846 8290
Total TCDF	ND	6.7	pg	SW846 8290
1,2,3,7,8-PeCDF	ND	3.1	pg	SW846 8290
2,3,4,7,8-PeCDF	ND	3.1	pg	SW846 8290
Total PeCDF	ND	4.3	pg	SW846 8290
1,2,3,4,7,8-HxCDF	ND	1.0	pg	SW846 8290
1,2,3,6,7,8-HxCDF	ND	0.98	pg	SW846 8290
2,3,4,6,7,8-HxCDF	ND	1.1	pg	SW846 8290
1,2,3,7,8,9-HxCDF	ND	1.2	pg	SW846 8290
Total HxCDF	ND	1.2	pg	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	1.1	pg	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	1.3	pg	SW846 8290
Total HpCDF	ND	1.3	pg	SW846 8290
OCDF	ND	2.7	pg	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	82	(40 - 135)
13C-1,2,3,7,8-PeCDD	83	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	74	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	85	(40 - 135)
13C-OCDD	85	(40 - 135)
13C-2,3,7,8-TCDF	84	(40 - 135)
13C-1,2,3,7,8-PeCDF	81	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	80	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	90	(40 - 135)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G1J270136 Work Order #...: EM0F41AC Matrix.....: WIPE
 LCS Lot-Sample#: G1J270000-162
 Prep Date.....: 10/27/01 Analysis Date...: 10/28/01
 Prep Batch #...: 1300162
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,3,7,8-TCDD	200	222	pg	111	SW846 8290
1,2,3,7,8-PeCDD	1000	985	pg	99	SW846 8290
1,2,3,4,7,8-HxCDD	1000	1000	pg	100	SW846 8290
1,2,3,6,7,8-HxCDD	1000	989	pg	99	SW846 8290
1,2,3,7,8,9-HxCDD	1000	1010	pg	101	SW846 8290
1,2,3,4,6,7,8-HpCDD	1000	968	pg	97	SW846 8290
OCDD	2000	1890	pg	94	SW846 8290
2,3,7,8-TCDF	200	198	pg	99	SW846 8290
1,2,3,7,8-PeCDF	1000	1000	pg	100	SW846 8290
2,3,4,7,8-PeCDF	1000	1050	pg	105	SW846 8290
1,2,3,4,7,8-HxCDF	1000	981	pg	98	SW846 8290
1,2,3,6,7,8-HxCDF	1000	952	pg	95	SW846 8290
2,3,4,6,7,8-HxCDF	1000	1010	pg	101	SW846 8290
1,2,3,7,8,9-HxCDF	1000	1040	pg	104	SW846 8290
1,2,3,4,6,7,8-HpCDF	1000	962	pg	96	SW846 8290
1,2,3,4,7,8,9-HpCDF	1000	967	pg	97	SW846 8290
OCDF	2000	1750	pg	87	SW846 8290

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	69	(40 - 135)
13C-1,2,3,7,8-PeCDD	90	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	84	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	86	(40 - 135)
13C-OCDD	92	(40 - 135)
13C-2,3,7,8-TCDF	74	(40 - 135)
13C-1,2,3,7,8-PeCDF	90	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	78	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	85	(40 - 135)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #....: G1J270136 Work Order #....: EM0F41AC Matrix.....: WIPE
 LCS Lot-Sample#: G1J270000-162
 Prep Date.....: 10/27/01 Analysis Date...: 10/28/01
 Prep Batch #....: 1300162
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,3,7,8-TCDD	111	(50 - 150)	SW846 8290
1,2,3,7,8-PeCDD	99	(50 - 150)	SW846 8290
1,2,3,4,7,8-HxCDD	100	(50 - 150)	SW846 8290
1,2,3,6,7,8-HxCDD	99	(50 - 150)	SW846 8290
1,2,3,7,8,9-HxCDD	101	(50 - 150)	SW846 8290
1,2,3,4,6,7,8-HpCDD	97	(50 - 150)	SW846 8290
OCDD	94	(50 - 150)	SW846 8290
2,3,7,8-TCDF	99	(50 - 150)	SW846 8290
1,2,3,7,8-PeCDF	100	(50 - 150)	SW846 8290
2,3,4,7,8-PeCDF	105	(50 - 150)	SW846 8290
1,2,3,4,7,8-HxCDF	98	(50 - 150)	SW846 8290
1,2,3,6,7,8-HxCDF	95	(50 - 150)	SW846 8290
2,3,4,6,7,8-HxCDF	101	(50 - 150)	SW846 8290
1,2,3,7,8,9-HxCDF	104	(50 - 150)	SW846 8290
1,2,3,4,6,7,8-HpCDF	96	(50 - 150)	SW846 8290
1,2,3,4,7,8,9-HpCDF	97	(50 - 150)	SW846 8290
OCDF	87	(50 - 150)	SW846 8290

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	69	(40 - 135)
13C-1,2,3,7,8-PeCDD	90	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	84	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	86	(40 - 135)
13C-OCDD	92	(40 - 135)
13C-2,3,7,8-TCDF	74	(40 - 135)
13C-1,2,3,7,8-PeCDF	90	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	78	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	85	(40 - 135)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #....: G1J270136 Work Order #....: EM0F81AC Matrix.....: WIPE
 LCS Lot-Sample#: G1J270000-163
 Prep Date.....: 10/27/01 Analysis Date...: 10/28/01
 Prep Batch #....: 1300163
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
2,3,7,8-TCDD	200	202	pg	101	SW846 8290
1,2,3,7,8-PeCDD	1000	953	pg	95	SW846 8290
1,2,3,4,7,8-HxCDD	1000	1110	pg	111	SW846 8290
1,2,3,6,7,8-HxCDD	1000	1010	pg	101	SW846 8290
1,2,3,7,8,9-HxCDD	1000	1100	pg	110	SW846 8290
1,2,3,4,6,7,8-HpCDD	1000	997	pg	100	SW846 8290
OCDD	2000	2040	pg	102	SW846 8290
2,3,7,8-TCDF	200	199	pg	99	SW846 8290
1,2,3,7,8-PeCDF	1000	1070	pg	107	SW846 8290
2,3,4,7,8-PeCDF	1000	1050	pg	105	SW846 8290
1,2,3,4,7,8-HxCDF	1000	1050	pg	105	SW846 8290
1,2,3,6,7,8-HxCDF	1000	1070	pg	107	SW846 8290
2,3,4,6,7,8-HxCDF	1000	1100	pg	110	SW846 8290
1,2,3,7,8,9-HxCDF	1000	1130	pg	113	SW846 8290
1,2,3,4,6,7,8-HpCDF	1000	1000	pg	100	SW846 8290
1,2,3,4,7,8,9-HpCDF	1000	1060	pg	106	SW846 8290
OCDF	2000	2180	pg	109	SW846 8290

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	77	(40 - 135)
13C-1,2,3,7,8-PeCDD	81	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	72	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	88	(40 - 135)
13C-OCDD	89	(40 - 135)
13C-2,3,7,8-TCDF	82	(40 - 135)
13C-1,2,3,7,8-PeCDF	83	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	76	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	94	(40 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G1J270136 Work Order #...: EM0F81AC Matrix.....: WIPE
 LCS Lot-Sample#: G1J270000-163
 Prep Date.....: 10/27/01 Analysis Date...: 10/28/01
 Prep Batch #...: 1300163
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,3,7,8-TCDD	101	(50 - 150)	SW846 8290
1,2,3,7,8-PeCDD	95	(50 - 150)	SW846 8290
1,2,3,4,7,8-HxCDD	111	(50 - 150)	SW846 8290
1,2,3,6,7,8-HxCDD	101	(50 - 150)	SW846 8290
1,2,3,7,8,9-HxCDD	110	(50 - 150)	SW846 8290
1,2,3,4,6,7,8-HpCDD	100	(50 - 150)	SW846 8290
OCDD	102	(50 - 150)	SW846 8290
2,3,7,8-TCDF	99	(50 - 150)	SW846 8290
1,2,3,7,8-PeCDF	107	(50 - 150)	SW846 8290
2,3,4,7,8-PeCDF	105	(50 - 150)	SW846 8290
1,2,3,4,7,8-HxCDF	105	(50 - 150)	SW846 8290
1,2,3,6,7,8-HxCDF	107	(50 - 150)	SW846 8290
2,3,4,6,7,8-HxCDF	110	(50 - 150)	SW846 8290
1,2,3,7,8,9-HxCDF	113	(50 - 150)	SW846 8290
1,2,3,4,6,7,8-HpCDF	100	(50 - 150)	SW846 8290
1,2,3,4,7,8,9-HpCDF	106	(50 - 150)	SW846 8290
OCDF	109	(50 - 150)	SW846 8290

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	77	(40 - 135)
13C-1,2,3,7,8-PeCDD	81	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	72	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	88	(40 - 135)
13C-OCDD	89	(40 - 135)
13C-2,3,7,8-TCDF	82	(40 - 135)
13C-1,2,3,7,8-PeCDF	83	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	76	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	94	(40 - 135)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters