DATA REPORT FOR
THIRD QUARTER
GROUND-WATER SAMPLING AND ANALYSIS FOR
CALMAR FACILITY
CITY OF INDUSTRY, CALIFORNIA

May 16, 1995
LF 2455.00-12

LEVINE·FRICKE

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CERTIFICATION *

All hydrogeologic and geologic information, conclusions, or recommendations in this report have been prepared under the supervision of and reviewed by a Levine·Fricke California Registered Geologist.

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May 16, 1995 LF 2455.00-12

DATA REPORT FOR THIRD QUARTER GROUND-WATER SAMPLING AND ANALYSIS AT THE CALMAR FACILITY CITY OF INDUSTRY, CALIFORNIA

At the request of the California Regional Water Quality Control Board (RWQCB), Los Angeles Region, Calmar, Inc., is currently conducting a ground-water investigation at its facility located at 333 South Turnbull Canyon Road in the City of Industry, Los Angeles County, California ("the Site"; Figure 1). This data report summarizes the results for quarterly sampling events conducted by Levine·Fricke, Inc., on March 28 and 29, 1995.

1.0 SCOPE OF WORK PERFORMED

Levine·Fricke performed the work at the Site on the following dates:

1. Depth-to-ground-water measurements (monitoring wells MW-1 through MW-7 and piezometers P-1, P-2, and P-3) on March 28, 1995

2. Ground-water sampling (monitoring wells MW-1 through MW-7 and piezometers P-1, P-2, and P-3) on March 28 and 29, 1995

Details of field procedures used by Levine·Fricke are presented in Appendix A.

2.0 GROUND-WATER ELEVATION AND FLOW DIRECTION

Measurements of depth to ground water, along with historical ground-water elevation data collected at the Site, are summarized in Table 1. Ground-water elevation data for March 28, 1995, were used to construct a ground-water elevation contour map for the Site (Figure 2). As shown in Figure 2, the overall horizontal flow direction interpreted for March 1995 is consistent with that previously interpreted for the Site.

3.0 ANALYTICAL RESULTS FOR GROUND-WATER SAMPLING

Ground-water samples collected in March 1995 were submitted to Terra Tech Labs located in Santa Ana, California, under chain-of-custody documentation for the following analysis:

- halogenated organic compounds using EPA Method 8010

Analytical results for ground-water samples collected on March 28 and 29, 1995, are summarized in Table 2 and Figure 3. The type of compounds detected is consistent with those historically detected. Analytical results for a duplicate sample collected from monitoring well MW-1 produced near identical results for the analytical methods used.

Volatile organic compounds (VOCs) were not detected above laboratory detection limits in an equipment blank collected on March 28, 1995.

4.0 CONCLUSIONS

Concentrations of VOCs detected in ground water are relatively consistent with historical concentration data collected at the Site. Low concentrations of VOCs were detected in ground-water samples collected from upgradient monitoring wells. Ground-water flow interpreted for March 1995 is consistent with the historical interpretation for the Site.

Table 1:

SUMMARY OF HISTORICAL GROUND-WATER ELEVATION DATA
Calmar-City of Industry
LF 2455

Well Number	Well Elevation (feet-MSL)	Date Sampled	Depth to Water (feet)	Ground-Water Elevation (feet-MSL)	Relative Change (feet)
MW-1	303.32	03/29/89	35.84	267.48	--
		04/29/91	42.65	260.67	-6.81
		05/10/91	42.72	260.60	-0.07
		07/30/91	43.52	259.80	-0.80
		10/11/91	44.24	259.08	-0.72
		03/25/92	43.77	259.55	0.47
	303.16 *	04/15/93	37.01	266.15	6.60
		07/30/93	34.62	268.54	2.39
		11/30/93	32.92	270.24	1.70
		04/28/94	31.11	272.05	1.81
		07/27/94	30.89	272.27	0.22
		10/06/94	31.31	271.85	-0.42
		01/26/95	30.97	272.19	0.34
		03/28/95	29.77	273.39	1.20
MW-2	303.29	03/29/89	35.14	268.15	--
		04/29/91	41.38	261.91	-6.24
		05/10/91	41.45	261.84	-0.07
		07/30/91	42.12	261.17	-0.67
		10/11/91	42.67	260.62	-0.55
		03/25/92	42.21	261.08	0.46
	303.15 *	04/15/93	36.10	267.05	5.97
		07/30/93	33.86	269.29	2.24
		11/30/93	32.22	270.93	1.64
		04/28/94	30.42	272.73	1.80
		07/27/94	30.21	272.94	0.21
		10/06/94	30.65	272.50	-0.44
		01/26/95	30.29	272.86	0.36
		03/28/95	29.09	274.06	1.20
MW-3	302.67	03/29/89	35.01	267.66	--
		04/29/91	41.67	261.00	-6.66
		05/10/91	41.72	260.95	-0.05
		07/30/91	42.50	260.17	-0.78
		10/11/91	43.11	259.56	-0.61
		03/25/92	42.50	260.17	0.61
	302.36 *	04/15/93	35.92	266.44	6.27
		07/30/93	33.71	268.65	2.21
		11/30/93	NA	--	--
		04/28/94	30.11	272.25	3.60
		07/27/94	29.92	272.44	0.19
		10/06/94	30.34	272.02	-0.42
		01/26/95	29.46	272.90	0.88
		03/28/95	28.43	273.93	1.03

Table 1 :

SUMMARY OF HISTORICAL GROUND-WATER ELEVATION DATA
Calmar-City of Industry
LF 2455

Well Number	Well Elevation (feet-MSL)	Date Sampled	Depth to Water (feet)	Ground-Water Elevation (feet-MSL)	Relative Change (feet)
MW-4	304.78	04/15/93	35.85	268.93	--
		07/30/93	33.96	270.82	1.89
		11/30/93	32.46	272.32	1.50
		04/28/94	30.76	274.02	1.70
		07/27/94	30.56	274.22	0.20
		10/06/94	31.01	273.77	-0.45
		01/26/95	30.61	274.17	0.40
		03/28/95	29.41	275.37	1.20
MW-5	304.09	04/15/93	34.09	270.00	--
		07/30/93	32.31	271.78	1.78
		11/30/93	30.9	273.19	1.41
		04/28/94	29.27	274.82	1.63
		07/27/94	29.04	275.05	0.23
		10/06/94	29.46	274.63	-0.42
		01/26/95	28.98	275.11	0.48
		03/28/95	27.8	276.29	1.18
MW-6	303.50	07/30/93	33.87	269.63	--
		11/30/93	32.37	271.13	1.50
		04/28/94	30.59	272.91	1.78
		07/27/94	30.35	273.15	0.24
		10/06/94	30.75	272.75	-0.40
		01/26/95	30.42	273.08	0.33
		03/28/95	29.21	274.29	1.21
MW-7	303.04	07/30/93	34.00	269.04	--
		11/30/93	32.24	270.80	1.76
		04/28/94	30.43	272.61	1.81
		07/27/94	30.20	272.84	0.23
		10/06/94	30.61	272.43	-0.41
		01/26/95	30.78	272.26	-0.17
		03/28/95	29.05	273.99	1.73
P-1	301.99	03/29/89	34.06	267.93	--
		04/29/91	40.59	261.40	-6.53
		05/10/91	40.66	261.33	-0.07
		07/30/91	41.40	260.59	-0.74
		10/11/91	41.95	260.04	-0.55
		03/25/92	41.16	260.83	0.79
	301.65 *	04/15/93	34.94	266.71	5.88
		07/30/93	32.76	268.89	2.18
		11/30/93	NA	--	--
		04/28/94	29.11	272.54	3.65
		07/27/94	29.04	272.61	0.07
		10/06/94	29.05	272.60	-0.01
		01/26/95	28.53	273.12	0.52
		03/28/95	27.78	273.87	0.75

Table 1 :

SUMMARY OF HISTORICAL GROUND-WATER ELEVATION DATA

Calmar-City of Industry

LF 2455

Well Number	Well Elevation (feet-MSL)	Date Sampled	Depth to Water (feet)	Ground-Water Elevation (feet-MSL)	Relative Change (feet)
P-2	303.09	03/29/89	35.14	267.95	--
		04/29/91	42.04	261.05	-6.90
		05/10/91	40.10	262.99	1.94
		07/30/91	42.82	260.27	-2.72
		10/11/91	43.43	259.66	-0.61
		03/25/92	43.01	260.08	0.42
		04/15/93	36.58	266.51	6.43
		07/30/93	34.25	268.84	2.33
		11/30/93	32.59	270.50	1.66
		04/28/94	30.78	272.31	1.81
		07/27/94	30.52	272.57	0.26
		10/06/94	30.94	272.15	-0.42
		01/26/95	30.62	272.47	0.32
		03/28/95	29.43	273.66	1.19
P-3	305.11	03/29/89	36.59	268.52	--
		04/29/91	40.59	264.52	-4.00
		05/10/91	40.68	264.43	-0.09
		07/30/91	41.86	263.25	-1.18
		10/11/91	42.07	263.04	-0.21
		03/25/92	41.21	263.90	0.86
	305.01 *	04/15/93	35.12	269.89	5.99
		07/30/93	33.96	271.05	1.16
		11/30/93	32.12	272.89	1.84
		04/28/94	30.48	274.53	1.64
		07/27/94	30.33	274.68	0.15
		10/06/94	30.76	274.25	-0.43
		01/26/95	30.04	274.97	0.72
		03/28/95	28.62	276.39	1.42

NOTE: MSL = Mean Sea Level
* = Resurveyed after top of casing trimmed in April 1993.
NA = No access (area flooded).

QA/QC

Table 2 :
SUMMARY OF GROUND-WATER QUALITY DATA
BTEX (EPA Method 8020/602)
and VOCs (EPA Method 8010/601)
Calmar-City of Industry
LF 2455
All values reported in micrograms per liter (µg/L)

Well Number	Date Sampled	PCE	TCE	1,1-DCE	1,1-DCA	cis-1,2-DCE	1,2-DCA	1,1,1-TCA	Toluene
MW-1	09/01/88	20	23	6.1	ND	TR	ND	6.5	TR
	04/29/91	34	34	19	ND	2.9	ND	4.5	<1.0
	10/11/91	32	27	160	ND	2	ND	3	<1.0
	03/25/92	12	16	4.4	ND	1.7	<0.5	0.9	<1.0
	04/16/93	18	15	11	<1.0	<1.0	<1.0	2.0	1.7
	08/03/93	13	ND	7	ND	ND	<1.0	1.4	<1.0
	11/30/93	12.0	8.0	3.5	<1.0	<1.0	<1.0	1.5	<1.0
	03/28/94	18	9.9	5.2	<1.0	<1.0	<1.0	2.6	NA
	06/21/94	14	6.2	3.4	<1.0	<1.0	<1.0	1.7	<1.0
	10/06/94	13	6	2.7	<1.0	<1.0	<1.0	1.8	<1.0
	10/06/94 (D)	13	5.7	2.6	<1.0	<1.0	<1.0	1.8	<1.0
	01/26/95	13	6.1	1.5	<1.0	<1.0	<1.0	<1.0	NA
	03/28/95	12	5.9	1.6	<1.0	<1.0	<1.0	<1.0	NA
	03/28/95 (D)	9.0	3.5	4.4	<1.0	<1.0	<1.0	<1.0	NA
MW-2	09/01/88	7	42	4	ND	1.9	ND	0.77	<1.0
	04/29/91	11	140	52	5.4	2.2	ND	73	<1.0
	10/11/91	13	5	2	ND	ND	ND	ND	<1.0
	03/25/92	7.2	84	20	2.5	2	<1.0	33	<1.0
	04/15/93	8.2	250	96	20	3.9	<1.0	98	<1.0
	08/02/93	4.7	110	49	9.2	1.6	<1.0	34	<1.0
	12/01/93	6.2	200	26	4.2	1.7	<1.0	13	<1.0
	03/29/94	7.3	260	40	6.7	1.9	<1.0	20	NA
	06/22/94	4.2	<5.0	22	4.8	<1.0	<1.0	12	<1.0
	10/06/94	6.2	44	8.2	2.6	<1.0	<1.0	4.9	<1.0
	01/26/95	5.7	200	31	7.9	<1.0	<1.0	15	NA
	03/28/95	5.3	100	22	4.7	1.6	<1.0	7.3	NA
MW-3	09/01/88	47	20	79	36	TR	3.98	2.3	<1.0
	04/29/91	170	210	27	2.8	ND	ND	5.4	<1.0
	04/16/93	170	24	71	7.5	<1.0	<1.0	4.2	<1.0
	08/02/93	160	23	47	9.6	ND	<1.0	2.3	<1.0
	11/30/93	360	19	17	1.0	<1.0	<1.0	2.5	<1.0
	11/30/93 (D)	320	19	16	<1.0	<1.0	<1.0	2.5	<1.0
	03/29/94	410	17	12	1.1	1.2	<1.0	2.9	NA
	06/22/94	160	11	16	<1.0	<1.0	<1.0	1.6	<1.0
	10/06/94	110	28	61	12	2.2	<1.0	2.8	6.0
	01/26/95	170	8.6	7.1	<1.0	<1.0	<1.0	1.4	NA
	03/28/95	160	17	53	1.4	1.4	<1.0	2.1	NA
MW-4	04/16/93	12	4.5	5.4	<1.0	<1.0	<1.0	2.4	<1.0
	04/23/93	12	4.9	6.3	<1.0	<1.0	<1.0	2.4	<1.0
	08/03/93	8.9	3.6	1.9	ND	ND	<1.0	1.2	<1.0
	11/30/93	10	2.7	1.3	<1.0	<1.0	<1.0	1.7	<1.0
	03/28/94	16	5.8	2.7	<1.0	<1.0	<1.0	2.8	NA
	04/23/94	12	4.9	6.3	<1.0	<1.0	<1.0	2.4	<1.0
	06/21/94	10	3.4	3.7	<1.0	<1.0	<1.0	1.2	<1.0
	10/07/94	12	4.4	1.9	<1.0	<1.0	<1.0	1.5	6.8
	01/26/95	12	4.1	<1.0	<1.0	<1.0	<1.0	<1.0	NA
	03/29/95	10	2.9	3.7	<1.0	<1.0	<1.0	<1.0	NA

Table 2 :
SUMMARY OF GROUND-WATER QUALITY DATA
BTEX (EPA Method 8020/602)
and VOCs (EPA Method 8010/601)
Calmar-City of Industry
LF 2455
All values reported in micrograms per liter (µg/L)

Well Number	Date Sampled	PCE	TCE	1,1-DCE	1,1-DCA	cis-1,2-DCE	1,2-DCA	1,1,1-TCA	Toluene
MW-5	04/16/93	5.0	2.8	2.4	<1.0	<1.0	<1.0	1.8	<1.0
	04/23/93	5.9	2.2	1.0	<1.0	<1.0	<1.0	1.7	<1.0
	08/03/93	3.3	1.7	ND	ND	ND	<1.0	2.4	<1.0
	12/01/93	4.2	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	03/28/94	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	04/23/94	5.9	2.2	1.0	<1.0	<1.0	<1.0	1.7	1.6
	06/21/94	<1.0	<5.0	<1.0	130	<1.0	<1.0	<1.0	<1.0
	10/07/94	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/26/95	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
	03/29/95	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
MW-6	08/03/93	4.8	12	2.6	ND	ND	<1.0	2.6	<1.0
	08/10/93	11	110	7.3	<2.0	<2.0	<2.0	<2.0	<1.0
	11/30/93	5.0	250	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	03/28/94	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	NA
	06/22/94	6.3	55	4.5	<1.0	<1.0	<1.0	<1.0	<1.0
	06/22/94 (D)	5.9	48	3.2	<1.0	<1.0	<1.0	<1.0	<1.0
	10/07/94	6.7	36	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/27/95	3	220	<1.0	<1.0	<1.0	<1.0	1.4	NA
	03/29/95	3.7	47	2.0	<1.0	<1.0	<1.0	<1.0	NA
MW-7	08/03/93	3.7	16	12	ND	ND	<1.0	3.4	<1.0
	08/10/93	3.9	8.3	7	<1.0	<1.0	<1.0	<1.0	<1.0
	08/10/93 (D)	3.1	11	13	<1.0	<1.0	<1.0	<1.0	<1.0
	11/30/93	4.9	11	7.7	<1.0	<1.0	<1.0	<1.0	<1.0
	03/28/94	6.6	9.9	6.5	<1.0	<1.0	<1.0	1.1	NA
	06/22/94	5.2	7.1	7.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/07/94	5.8	6	3.6	<1.0	<1.0	<1.0	<1.0	<1.0
	01/27/95	5.4	38	22	1.1	<1.0	<1.0	1.1	NA
	03/29/95	3.8	4.4	3.6	<1.0	<1.0	<1.0	<1.0	NA
MW-8	10/06/94	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	10/07/94	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
P-1	10/11/91	10	5	12	ND	ND	ND	ND	<1.0
	03/25/92	13	6.9	41	ND	ND	<1.0	2.4	2
	04/16/93	18	6.0	55	<1.0	<1.0	<1.0	2.4	<1.0
	04/16/93 (D)	16	5.7	57	<1.0	<1.0	<1.0	2.1	<1.0
	08/02/93	14	7.8	49	1.6	ND	<1.0	3.2	<1.0
	12/01/93	20	7.5	69	<1.0	<1.0	<1.0	2.5	<1.0
	03/29/94	22	11	90	2.1	<1.0	<1.0	3	NA
	06/22/94	18	8.4	68	<1.0	<1.0	<1.0	1.7	<1.0
	10/06/94	21	9.5	120	1.9	<1.0	<1.0	2.6	12
	01/27/95	13	3.9	30	<1.0	<1.0	<1.0	<1.0	NA
	01/27/95 (D)	15	4.6	36	<1.0	<1.0	<1.0	<1.0	NA
	03/29/95	13	6.1	51	1.4	<1.0	<1.0	<1.0	NA

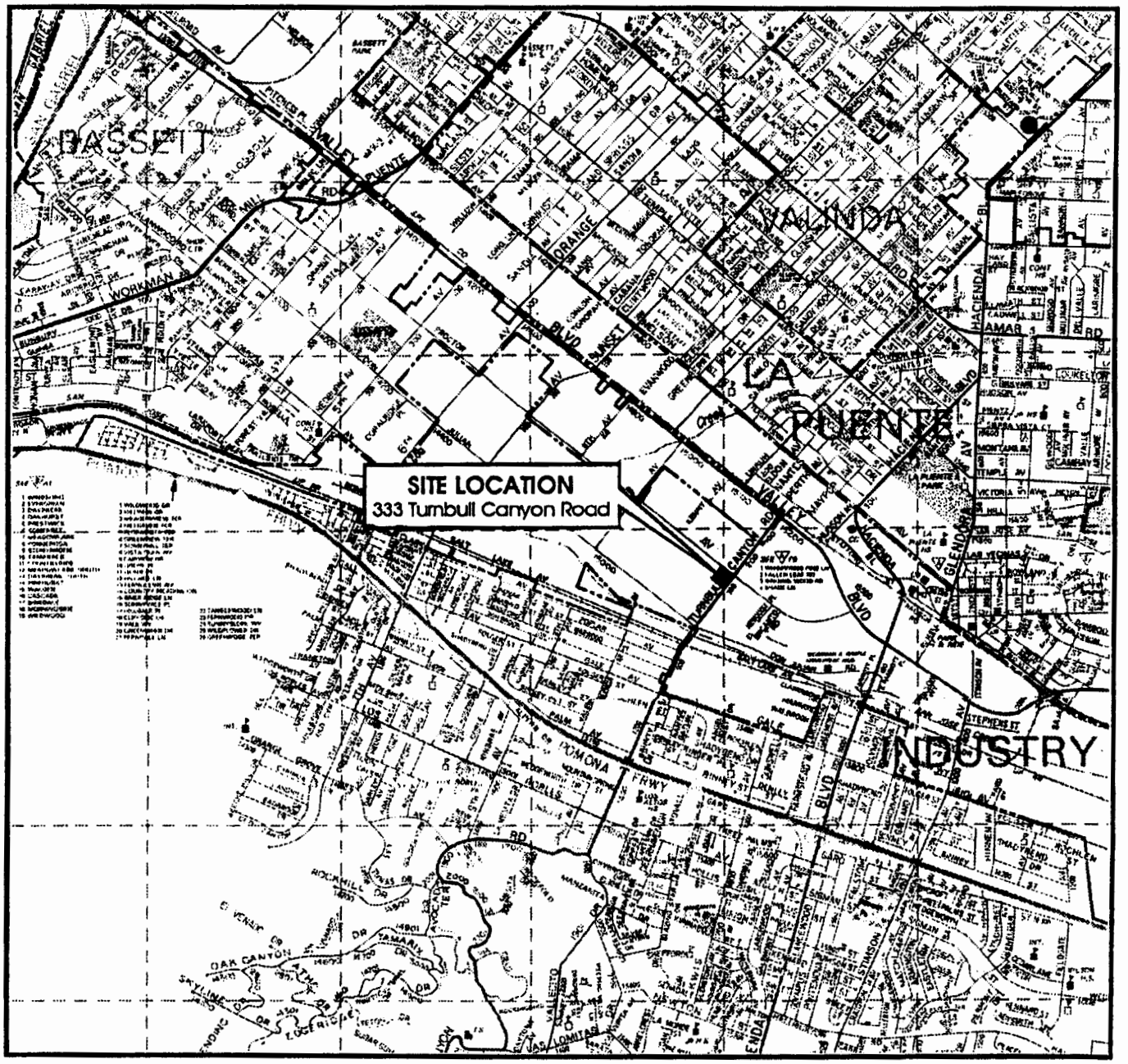
Table 2 :
SUMMARY OF GROUND-WATER QUALITY DATA
BTEX (EPA Method 8020/602)
and VOCs (EPA Method 8010/601)
Calmar-City of Industry
LF 2455
All values reported in micrograms per liter (µg/L)

Well Number	Date Sampled	PCE	TCE	1,1-DCE	1,1-DCA	cis-1,2-DCE	1,2-DCA	1,1,1-TCA	Toluene
P-2	05/13/91	20	5.7	ND	ND	ND	ND	ND	<1.0
	10/11/91	14	7	4	ND	ND	ND	ND	<1.0
	03/25/92	7.4	7.5	3.9	ND	ND	<1.0	ND	<1.0
	04/15/93	18	140	58	8.4	12	<1.0	1.1	1.2
	08/03/93	12	93	ND	8.3	9.4	<1.0	1.1	<1.0
	11/30/93	11	210	45	8.3	11	<1.0	<1.0	<1.0
	03/29/94	70	230	57	8.6	<1.0	<1.0	2.4	NA
	06/21/94	44	98	47	6.3	<1.0	<1.0	1.3	<1.0
	06/21/94 (D)	48	91	33	4.4	<1.0	<1.0	1.4	<1.0
	10/06/94	44	130	43	6.4	9.5	<1.0	1.6	<1.0
	01/27/95	150	130	44	4.2	<1.0	<1.0	3.2	NA
	03/29/95	130	110	48	5.6	7.3	<1.0	3.7	NA
P-3	05/13/91	5.2	2.3	ND	ND	ND	ND	ND	<1.0
	10/11/91	7	3	ND	ND	ND	ND	ND	2
	03/25/92	4.9	3.8	1.7	ND	ND	<0.5	0.7	2.7
	04/15/93 (D)	6.7	4.5	<1.0	<1.0	<1.0	<1.0	2.2	<1.0
	04/15/93	6.5	4.3	<1.0	<1.0	<1.0	<1.0	2.1	<1.0
	08/02/93	4	3.2	ND	ND	ND	<1.0	ND	<1.0
	12/01/93	5.7	4.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	03/28/94	8	4.5	1.1	<1.0	<1.0	<1.0	1.1	<1.0
	03/28/94 (D)	8	4.7	1.7	<1.0	<1.0	<1.0	1.1	NA
	06/21/94	5.7	4.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/07/94	6	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/26/95	5	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	NA
	03/29/95	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
Equipment Blanks	11/30/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	06/21/94	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/01/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	04/15/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2
	04/16/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	03/28/95	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
	03/29/95	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
Trip Blanks	01/27/95	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

NOTES: < = Designates less than laboratory detection limit.

PCE Tetrachloroethene
TCE Trichloroethene
1,1-DCE 1,1-Dichloroethene
1,1-DCA 1,1-Dichloroethane
cis-1,2-DCE cis-1,2-Dichloroethene
1,2-DCA 1,2-Dichloroethane
1,1,1-TCA 1,1,1-Trichloroethane
ND Not Detected (laboratory detection limits unavailable)
TR Trace, below detection limit (per Camp Dresser & McKee Inc., 1991)
NA Not Analyzed
D Duplicate sample

QA/QC



MAP SOURCE: Thomas Bros. Guide, Los Angeles County, California, p. 48,85, 1991.

N

SCALE

0 1/4 1/2 1 MILE

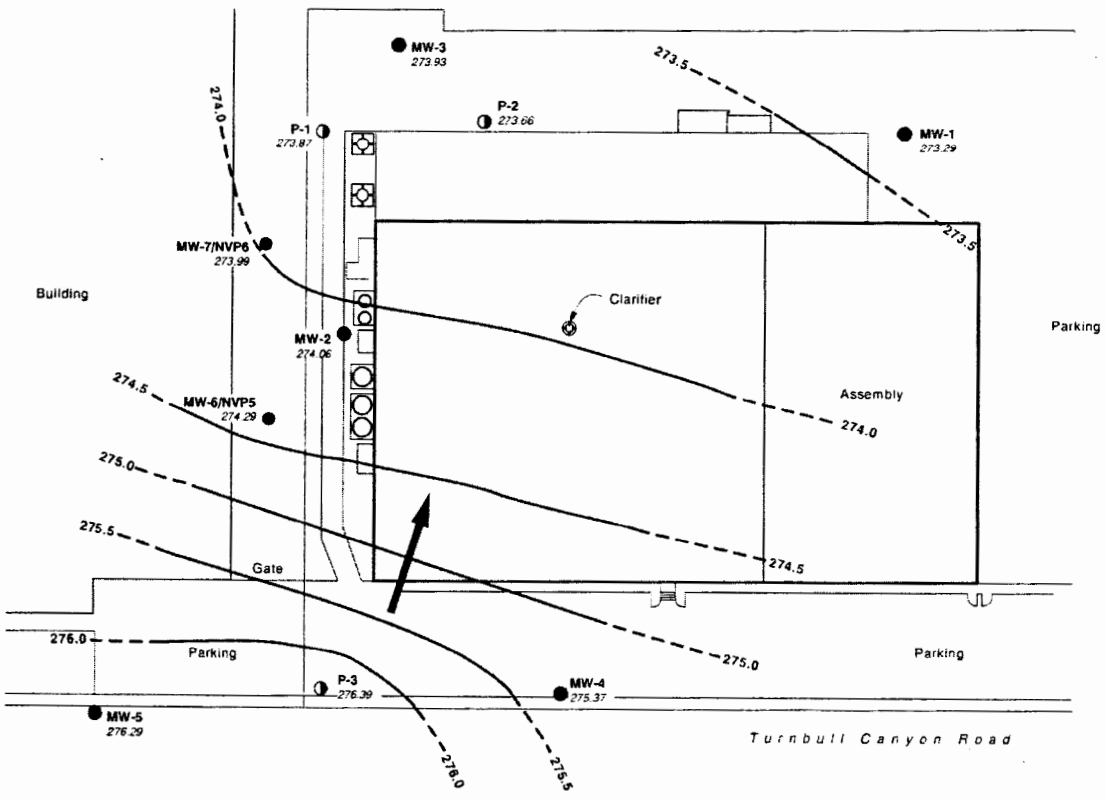
Figure 1 : SITE VICINITY

Project No. 2455.02
Calmar-City of Industry

LEVINE • FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

111991DEF/scj

2455-05



EXPLANATION

- Monitoring Well Location
- Piezometer Location
- Ground-Water Elevation Contour (ft.-MSL) Dashed Where Inferred
- 273.29 Ground-Water Elevation (ft.-MSL)
- Approximate Horizontal Ground-Water Flow Direction

SCALE

0 40 80 100 FEET

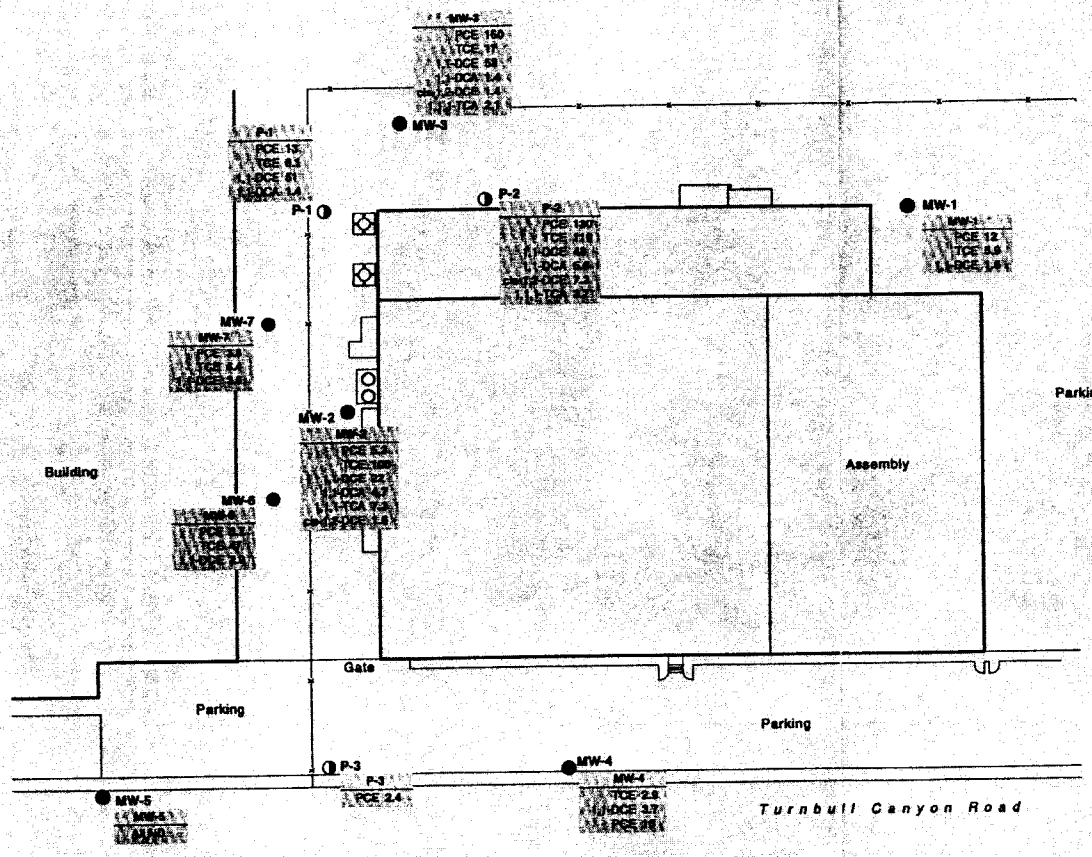
1 INCH = 80 FEET

Figure 2 :

GROUND-WATER ELEVATION CONTOURS
MARCH 28, 1995

Project No. 2455
Calmar

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS



EXPLANATION

- ● Monitoring Well Location
- ◑ Piezometer Location
- ■ Soil Boring Location
- P-1 / PCE 13 — Ground-Water Analytical Data Showing Volatile Organic Compounds (VOCs) Constituent and Concentration in micrograms per liter (µg/L)

PCE	Tetrachloroethene
TCE	Trichloroethene
1,1-DCE	1,1-Dichloroethene
1,1-DCA	1,1-Dichloroethane
cis-1,2-DCE	cis-1,2-Dichloroethene
1,1,1-TCA	1,1,1-Trichloroethane
ND	Volatile Organic Compounds (VOCs) Not Detected Above Laboratory Detection Limit

NOTES: All results reported in micrograms per liter (µg/L).
All samples analyzed using EPA Methods 8010.

SCALE
0 40 80 160 FEET
1 INCH = 80 FEET

Figure 3 :

SUMMARY OF VOCs DETECTED IN GROUND-WATER SAMPLES MARCH 28 AND 29, 1995

Project No. 2455
Calmar

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ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

042595DEF/ec)

2455-65

APPENDIX A

Levine-Fricke Field Protocols

APPENDIX A

LEVINE·FRICKE FIELD PROTOCOLS

Ground-Water Monitoring Well Development and Sampling

All equipment used to develop or sample the wells was washed in a laboratory-grade detergent and/or steam cleaned prior to use in each monitoring well.

Development of ground-water monitoring wells prior to sampling was conducted to remove sediments from the well boring and enhance communication with the surrounding formation. Development was conducted using one or a combination of the following techniques: overpumping, surging, swabbing, and bailing. The ground-water temperature, specific conductivity, turbidity, and pH were monitored during the development process.

Prior to ground-water sampling, approximately 4 to 10 casing volumes were purged from each well. Purging was conducted using an electric submersible pump. The ground-water temperature, specific conductance, turbidity, and pH were measured throughout the purging process. These ground-water parameters were allowed to reach relative stabilization before ground-water samples were collected for the purpose of collecting a representative ground-water sample.

Purged ground water was collected in DOT-approved drums for storage on site, or stored in an on-site PolyTank.

Ground-water samples were collected from all wells using a Teflon disposable bailer suspended by a clean (new) length of rope. Ground-water samples were decanted from the bailer into appropriate laboratory-supplied 40-milliliter vials using a bottom decanting petcock device. The containers were sealed, labeled, and placed in a chilled cooler for delivery to the analytical laboratory. Strict chain-of-custody protocol was followed throughout the sample handling process.

Measurement of Ground-Water Elevation

After the ground-water monitoring were installed, the top of each well casing was surveyed for vertical and horizontal control by a licensed surveyor. Elevation was surveyed to the nearest 0.01 foot mean sea level. Horizontal control was tied to a United States Geological Survey or Los Angeles County bench mark.

An electronic water-level meter was used to measure the depth to ground water to the nearest 0.01 foot in each well. Ground-water elevations were calculated and used to construct a ground-water elevation contour map from which the direction of ground-water flow and gradient could be evaluated.

APPENDIX B

Laboratory Certificates and Chain-of-Custody Documentation

TMA
Thermo Analytical

1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274
Formerly Terra Tech Labs

LABORATORY REPORT

Client:	Levine-Fricke	Report Date:	4/13/95
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L1838
		Client P.N.:	2455.14
		Lab Cert. #:	1155
Contact:	Ian Goltz		
Project Name:	Calmar	Date Sampled:	3/28/95
Project Address:	City of Industry, CA	Date Received:	3/28/95
		Date Analyzed:	4/6/95-4/8/95
		Physical State:	Liquid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	MS Percent Recovery	MSD Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
1,1-Dichloroethane (EPA 8010)	M	102	103	73-121	1	0-18
1,1,1-Trichloroethane (EPA 8010)	M	89	94	72-126	5	0-15
cis-1,3-Dichloropropene (EPA 8010)	M	89	95	58-124	7	0-22
Chlorobenzene (EPA 8010)	M	94	96	52-131	2	0-42
1,1-Dichloroethane (EPA 8010)	M	97	101	73-121	4	0-18
1,1,1-Trichloroethane (EPA 8010)	M	94	100	72-126	5	0-15
cis-1,3-Dichloropropene (EPA 8010)	M	92	95	58-124	3	0-22
Chlorobenzene (EPA 8010)	M	99	95	52-131	4	0-42

M = Matrix Spike / Matrix Spike Duplicate

RECEIVED
APR 18
LEVINE-FRICKE

Reviewed

Approved

The samples were received by Thermo Analytical in a chilled state, intact and accompanied by the Chain-of-Custody Record.
Acceptance of samples by Thermo Analytical is not an indication of condition upon receipt.
Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.
The Laboratory Report is the property of the client to whom it is addressed.
The Laboratory Results are only a portion of the Laboratory Report.

A division of Thermo Process Systems Inc., a Thermo Electron company

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	4/13/95
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L1838
		Client P.N.:	2455.14
Project Name:	Calmar	Date Sampled:	3/28/95
Project Address:	City of Industry, CA	Date Analyzed:	4/6/95
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	GW-1-32895	GW-10-32895	EQ-1	
Parameters	Conc. (µg/l)	Conc. (µg/l)	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	ND	ND	1.0
Vinyl chloride	ND	ND	ND	1.0
Trichlorofluoromethane	ND	ND	ND	1.0
Bromomethane	ND	ND	ND	1.0
Chloroethane	ND	ND	ND	1.0
1,1-Dichloroethene	1.6	4.4	ND	1.0
Methylene chloride	ND	ND	ND	5.0
trans-1,2-Dichloroethene	ND	ND	ND	1.0
1,1-Dichloroethane	ND	ND	ND	1.0
cis-1,2-Dichloroethene	ND	ND	ND	1.0
Chloroform	ND	ND	ND	1.0
1,1,1-Trichloroethane	ND	ND	ND	1.0
Carbon tetrachloride	ND	ND	ND	1.0
1,2-Dichloroethane	ND	ND	ND	1.0
Trichloroethene	5.9	3.5	ND	1.0
1,2-Dichloropropane	ND	ND	ND	1.0
Bromodichloromethane	ND	ND	ND	1.0
cis-1,3-Dichloropropene	ND	ND	ND	1.0
trans-1,3-Dichloropropene	ND	ND	ND	1.0
1,1,2-Trichloroethane	ND	ND	ND	1.0
Tetrachloroethene	12	9.0	ND	1.0
Dibromochloromethane	ND	ND	ND	1.0
Chlorobenzene	ND	ND	ND	1.0
Bromoform	ND	ND	ND	1.0
1,1,2,2-Tetrachloroethane	ND	ND	ND	1.0
1,3-Dichlorobenzene	ND	ND	ND	1.0
1,4-Dichlorobenzene	ND	ND	ND	1.0
1,2-Dichlorobenzene	ND	ND	ND	1.0

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	4/13/95
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L1838
		Client P.N.:	2455.14
Project Name:	Calmar	Date Sampled:	3/28/95
Project Address:	City of Industry, CA	Date Analyzed:	4/6/95
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	P-2-32895	
Parameters	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	1.0
Vinyl chloride	ND	1.0
Trichlorofluoromethane	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethene	48	10
Methylene chloride	ND	5.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	5.6	1.0
cis-1,2-Dichloroethene	7.3	1.0
Chloroform	ND	1.0
1,1,1-Trichloroethane	3.7	1.0
Carbon tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	110	10
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	130	10
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	4/13/95
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L1838
		Client P.N.:	2455.14
Project Name:	Calmar	Date Sampled:	3/28/95
Project Address:	City of Industry, CA	Date Analyzed:	4/6/95
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	GW-3-32895	
Parameters	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	1.0
Vinyl chloride	ND	1.0
Trichlorofluoromethane	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethene	53	10
Methylene chloride	ND	5.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	1.4	1.0
cis-1,2-Dichloroethene	1.4	1.0
Chloroform	ND	1.0
1,1,1-Trichloroethane	2.1	1.0
Carbon tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	17	1.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	160	10
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

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LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	4/13/95
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L1838
		Client P.N.:	2455.14

Project Name:	Calmar	Date Sampled:	3/28/95
Project Address:	City of Industry, CA	Date Analyzed:	4/6/95
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	P-1-32895	
Parameters	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	1.0
Vinyl chloride	ND	1.0
Trichlorofluoromethane	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethene	51	5.0
Methylene chloride	ND	5.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	1.4	1.0
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	6.1	1.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	13	1.0
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	4/13/95
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L1838
		Client P.N.:	2455.14
Project Name:	Calmar	Date Sampled:	3/28/95
Project Address:	City of Industry, CA	Date Analyzed:	4/8/95
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	GW-2-32895	
Parameters	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	1.0
Vinyl chloride	ND	1.0
Trichlorofluoromethane	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethene	22	1.0
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	4.7	1.0
cis-1,2-Dichloroethene	1.6	1.0
Chloroform	ND	1.0
1,1,1-Trichloroethane	7.3	1.0
Carbon tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	100	5.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	5.3	1.0
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

TMA
Thermo Analytical

1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274

Formerly Terra Tech Labs

April 17, 1995

Mr. Ian Goltz
Levine-Fricke
1920 Main St., Ste. 750
Irvine, CA 92714

RE: RWQCB Deliverables Case Narrative for Project L1838/2455.14

Dear Mr. Goltz:

Listed below is additional WIP case narrative information necessary due to special circumstances that were encountered during the analysis of the above-referenced project. This letter should be forwarded to the appropriate agency along with the deliverables package enclosed.

The water samples received by Thermo Analytical on 3/28/95 were analyzed within the allowable holding time for EPA Method 8010. Some of the samples may have been analyzed during the evening shift via auto-samplers both before and after midnight. The dates reported on the forms will then include one date for the samples run before midnight and a different date for the samples run after midnight. All of the samples are considered to have been run in one batch, and will have one set of quality control (QC) data.

It was noted during the EPA Method 8010 analysis that trace amounts of methylene chloride were detected in the associated method blanks analyzed on 4/6/95 and 4/8/95. The samples had similar methylene chloride concentrations detected at levels below the quantitation limit but above the method detection limit. Trace amounts of methylene chloride present in the laboratory environment was the probable cause of the detected compound.

Due to sample concentrations that exceeded the calibration range for selected target compounds, sample dilutions were analyzed on 4/8/95. All associated QC results are reported for both the original 4/6/95 analysis and the 4/8/95 re-analysis.

All other EPA Method 8010 QC results were within the acceptable limits.

If you should have any questions or need further information, please contact me at 714.757.7022.

Sincerely,

Patty Mata
Program Manager

Enclosure

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM

Laboratory Name: Thermo Analytical
Address: 1920 E. Deere Avenue, Santa Ana, CA 92705

Telephone: (714) 757-7022

Laboratory Certification
(ELAP) Number: 1155 Expiration Date: 3/31/96

Program Manager's Name (Print): Patricia Mata

Program Manager's Signature: Patricia Mata

Client: Levine-Fricke
Project Number: L1838/2455.14

Analytical Method: (Circle One)				
	EPA 502.1	EPA 503.1	EPA 502.2	EPA 524.1
				EPA 524.2
	EPA 601	EPA 602		EPA 624
	[EPA 8010]	EPA 8020	EPA 8021	EPA 8240
				EPA 8260
Other				
Date Sampled:	3/28/95			
Date Received:	3/28/95			
Date Reported:	4/13/95			
Sample Matrix:	Liquid			
Extraction Method:	EPA 5030A			
Extraction Material:	-			

Chain of Custody Received: [Yes] No

Sample Condition: Received chilled.

- - Sample Headspace Description (%): Zero Headspace
- - Sample Container Material: 40 mL glass VOA vials

Comments:

ANALYTICAL TEST RESULT (a)

Reporting Unit (Circle One): µg/kg | µg/l

		DATE ANALYZED:	4/6/95	4/6/95	4/6/95	4/6/95	4/8/95
		DATE EXTRACTED:	-	-	-	-	-
		DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0
		LAB SAMPLE I.D.:	L1838-1	L1838-2	L1838-3	L1838-4	L1838-5
		CLIENT SAMPLE I.D.:	GW-1-32895	P-2-32895	GW-3-32895	P-1-32895	GW-2-32895
COMPOUND (b)	MDL	MB					
Bromobenzene	-	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.20	ND	ND	ND	ND	ND	ND
Bromoform	0.05	ND	ND	ND	ND	ND	ND
Bromomethane	0.09	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.10	ND	ND	ND	ND	ND	ND
Chloroethane	0.07	ND	ND	ND	ND	ND	ND
Chloroform	0.08	0.09	0.35	0.18	0.69	0.20	ND
1-Chlorohexane	-	NA	NA	NA	NA	NA	NA
Chloromethane	0.08	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.10	ND	ND	ND	ND	ND	ND
Dibromomethane	-	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	0.06	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	0.13	ND	ND	5.6	1.4	1.4	4.7
1,2-Dichloroethane (1,2-DCA)	0.13	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	0.20	ND	1.6	48*	53*	51**	22
trans-1,2-Dichloroethylene	0.09	ND	ND	0.19	ND	ND	ND
Dichloromethane (MeCl2)	0.52	4.2	2.5	2.6	4.7	3.7	8.3
1,2-Dichloropropane	0.08	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	0.09	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	0.05	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	-	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.08	ND	0.093	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.08	ND	12	130*	160*	13	5.3
1,1,1-Trichloroethane (1,1,1-TCA)	0.30	ND	0.74	3.7	2.1	0.43	7.3
1,1,2-Trichloroethane (1,1,2-TCA)	0.10	ND	ND	0.20	ND	ND	ND
Trichloroethylene (TCE)	0.09	ND	5.9	110*	17	6.1	100**
1,2,3-Trichloropropane	-	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	0.15	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.22	ND	ND	ND	ND	ND	ND
Benzene	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	-	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	-	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	-	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	-	NA	NA	NA	NA	NA	NA
Toluene	-	NA	NA	NA	NA	NA	NA

a = Report Any Value >/= MDL; b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

*Dilution Factor = 10; analyzed 4/8/95

**Dilution Factor = 5; analyzed 4/8/95

ANALYTICAL TEST RESULT (cont'd)

		LAB SAMPLE I.D.:	L1838-1	L1838-2	L1838-3	L1838-4	L1838-5
		CLIENT SAMPLE I.D.:	GW-1-32895	P-2-32895	GW-3-32895	P-1-32895	GW-2-32895
COMPOUND (b)	MDL	MB					
m,p-Xylenes	-	NA	NA	NA	NA	NA	NA
o-Xylene	-	NA	NA	NA	NA	NA	NA
Acetone	-	NA	NA	NA	NA	NA	NA
Acrolein	-	NA	NA	NA	NA	NA	NA
Acrylonitrile	-	NA	NA	NA	NA	NA	NA
Bromochloromethane	-	NA	NA	NA	NA	NA	NA
n-Butylbenzene	-	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	-	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	-	NA	NA	NA	NA	NA	NA
2-Chloroethylvinyl ether	-	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	-	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	-	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	-	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethylene	-	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	-	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	-	NA	NA	NA	NA	NA	NA
1,1-Dichloropropylene	-	NA	NA	NA	NA	NA	NA
Ethylene dibromide (EDB)	-	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	-	NA	NA	NA	NA	NA	NA
Isopropylbenzene	-	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	-	NA	NA	NA	NA	NA	NA
Methyl Ethyl Ketone	-	NA	NA	NA	NA	NA	NA
Methyl Isobutyl Ketone	-	NA	NA	NA	NA	NA	NA
Naphthalene	-	NA	NA	NA	NA	NA	NA
n-Propylbenzene	-	NA	NA	NA	NA	NA	NA
Styrene	-	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	-	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	-	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	-	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	-	NA	NA	NA	NA	NA	NA
1,1,2-Trichlorotrifluoroethane	-	NA	NA	NA	NA	NA	NA
Surrogate	Spk Conc.	ACP%	MB %RC	%RC	%RC	%RC	%RC	%RC
2-Chloropropane	20	38-153	120	119	86	99	93	97
2-Bromo-1-chloropropane	20	65-135	110	111	131	118	111	115

a = Report Any Value >/= MDL; b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

SPK CONC = Spiking Concentration (</= 5 x PQL); ACP % = Acceptable Range of Percent; %RC = % Recovery

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed

ANALYTICAL TEST RESULT (a)

Reporting Unit (Circle One): µg/kg | µg/l

		DATE ANALYZED:	4/6/95	4/6/95			
		DATE EXTRACTED:	-	-			
		DILUTION FACTOR:	1.0	1.0			
		LAB SAMPLE I.D.:	L1838-6	L1838-7			
		CLIENT SAMPLE I.D.:	GW-10-32895	EQ-1			
COMPOUND (b)	MDL	MB					
Bromobenzene	-	NA	NA	NA			
Bromodichloromethane	0.20	ND	ND	ND			
Bromoform	0.05	ND	ND	ND			
Bromomethane	0.09	ND	ND	ND			
Carbon tetrachloride	0.10	ND	ND	ND			
Chloroethane	0.07	ND	ND	ND			
Chloroform	0.08	0.09	0.14	ND			
1-Chlorohexane	-	NA	NA	NA			
Chloromethane	0.08	ND	ND	ND			
Dibromochloromethane	0.10	ND	ND	ND			
Dibromomethane	-	NA	NA	NA			
Dichlorodifluoromethane	0.06	ND	ND	ND			
1,1-Dichloroethane (1,1-DCA)	0.13	ND	ND	ND			
1,2-Dichloroethane (1,2-DCA)	0.13	ND	ND	ND			
1,1-Dichloroethylene (1,1-DCE)	0.20	ND	4.4	ND			
trans-1,2-Dichloroethylene	0.09	ND	ND	ND			
Dichloromethane (MeCl2)	0.52	4.2	1.8	1.1			
1,2-Dichloropropane	0.08	ND	ND	ND			
cis-1,3-Dichloropropylene	0.09	ND	ND	ND			
trans-1,3-Dichloropropylene	0.05	ND	ND	ND			
1,1,1,2-Tetrachloroethane	-	NA	NA	NA			
1,1,2,2-Tetrachloroethane	0.08	ND	ND	ND			
Tetrachloroethylene (PCE)	0.08	ND	9.0	ND			
1,1,1-Trichloroethane (1,1,1-TCA)	0.30	ND	0.33	ND			
1,1,2-Trichloroethane (1,1,2-TCA)	0.10	ND	ND	ND			
Trichloroethylene (TCE)	0.09	ND	3.5	ND			
1,2,3-Trichloropropane	-	NA	NA	NA			
Trichlorofluoromethane	0.15	ND	ND	ND			
Vinyl chloride	0.22	ND	ND	ND			
Benzene	-	NA	NA	NA			
Chlorobenzene	-	NA	NA	NA			
1,2-Dichlorobenzene	-	NA	NA	NA			
1,3-Dichlorobenzene	-	NA	NA	NA			
1,4-Dichlorobenzene	-	NA	NA	NA			
Ethyl benzene	-	NA	NA	NA			
Toluene	-	NA	NA	NA			

a = Report Any Value >/= MDL; b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

ANALYTICAL TEST RESULT (cont'd)

		LAB SAMPLE I.D.:	L1838-6	L1838-7			
		CLIENT SAMPLE I.D.:	GW-10-32895	EQ-1			
COMPOUND (b)	MDL	MB					
m,p-Xylenes	-	NA	NA	NA			
o-Xylene	-	NA	NA	NA			
Acetone	-	NA	NA	NA			
Acrolein	-	NA	NA	NA			
Acrylonitrile	-	NA	NA	NA			
Bromochloromethane	-	NA	NA	NA			
n-Butylbenzene	-	NA	NA	NA			
sec-Butylbenzene	-	NA	NA	NA			
tert-Butylbenzene	-	NA	NA	NA			
2-Chloroethylvinyl ether	-	NA	NA	NA			
2-Chlorotoluene	-	NA	NA	NA			
4-Chlorotoluene	-	NA	NA	NA			
Dichlorodifluoromethane	-	NA	NA	NA			
cis-1,2-Dichloroethylene	-	NA	NA	NA			
1,3-Dichloropropane	-	NA	NA	NA			
2,2-Dichloropropane	-	NA	NA	NA			
1,1-Dichloropropylene	-	NA	NA	NA			
Ethylene dibromide (EDB)	-	NA	NA	NA			
Hexachlorobutadiene	-	NA	NA	NA			
Isopropylbenzene	-	NA	NA	NA			
p-Isopropyltoluene	-	NA	NA	NA			
Methyl Ethyl Ketone	-	NA	NA	NA			
Methyl Isobutyl Ketone	-	NA	NA	NA			
Naphthalene	-	NA	NA	NA			
n-Propylbenzene	-	NA	NA	NA			
Styrene	-	NA	NA	NA			
1,2,3-Trichlorobenzene	-	NA	NA	NA			
1,2,4-Trichlorobenzene	-	NA	NA	NA			
1,2,4-Trimethylbenzene	-	NA	NA	NA			
1,3,5-Trimethylbenzene	-	NA	NA	NA			
1,1,2-Trichlorotrifluoroethane	-	NA	NA	NA			
Surrogate	Spk Conc	ACP%	MB % RC	%RC	%RC	%RC	%RC	%RC
2-Chloropropane	20	38-153	120	114	75			
2-Bromo-1-chloropropane	20	65-135	110	88	72			

a = Report Any Value >/= MDL; b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

SPK CONC = Spiking Concentration (</= 5 x PQL); ACP % = Acceptable Range of Percent; %RC = % Recovery

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed

QA/QC REPORT

Reporting Unit (Circle One): µg/kg | µg/l

I. Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)

Date Performed: 4/6/95
Batch #: 040695L
Lab Sample ID: L1857-2

ANALYTE	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP %MS	ACP RPD
1,1-Dichloroethane	20.0	20.4	102	20.6	103	1	73-121	0-18
1,1,1-Trichloroethane	20.0	17.9	89	18.9	94	5	72-126	0-15
cis-1,3-Dichloropropene	20.0	17.7	89	19.0	95	7	58-124	0-22
Chlorobenzene	20.0	18.8	94	19.3	96	2	52-131	0-42

II. Laboratory Quality Control Check Sample

Date Performed: 4/6/95
Batch #: 040695LCS
Lab Sample ID: LCS

ANALYTE	SPK CONC	RESULT	% RECOVERY	ACP %
1,1-Dichloroethane	20.0	21.0	105	80-120
1,1,1-Trichloroethane	20.0	20.8	104	80-120
cis-1,3-Dichloropropene	20.0	20.4	102	80-120
Chlorobenzene	20.0	20.4	102	80-120

ANALYST

4/17/95
DATE

QA/QC REPORT

Reporting Unit (Circle One): µg/kg [µg/l]

I. Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)

Date Performed: 4/8/95
Batch #: 040895L
Lab Sample ID: L1848-1

ANALYTE	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP %MS	ACP RPD
1,1-Dichloroethane	20.0	19.4	97	20.2	101	4	73-121	0-18
1,1,1-Trichloroethane	20.0	18.9	94	19.9	100	5	72-126	0-15
cis-1,3-Dichloropropene	20.0	18.5	92	19.0	95	3	58-124	0-22
Chlorobenzene	20.0	19.8	99	18.9	95	4	52-131	0-42

II. Laboratory Quality Control Check Sample

Date Performed: 4/8/95
Batch #: 040895LCS
Lab Sample ID: LCS

ANALYTE	SPK CONC	RESULT	% RECOVERY	ACP %
1,1-Dichloroethane	20.0	18.7	94	80-120
1,1,1-Trichloroethane	20.0	17.9	90	80-120
cis-1,3-Dichloropropene	20.0	17.1	86	80-120
Chlorobenzene	20.0	18.0	90	80-120

Zymnham
ANALYST

4/17/95
DATE

QA/QC REPORT

III. Calibration Standard

	MOST RECENT INITIAL CALIBRATION	DAILY CALIBRATION
Date:	4/4/95	4/5/95
Supply Source:	Ultra Scientific	Ultra Scientific

COMPOUND (c)	INITIAL RF (ave)	%RSD (d)	DAILY RF	% DIFF (e) W/RF ave
Bromobenzene	NA	NA	NA	NA
Bromochloromethane	29994	10	27315	9
Bromodichloromethane	27068	7	25268	7
Bromoform	13540	6	12085	11
Bromomethane	8601	6	9578	11
Carbon tetrachloride	42926	9	41125	4
Chloroethane	24795	10	23735	4
Chloroform	44597	10	42357	5
1-Chlorohexane	NA	NA	NA	NA
Chloromethane	17139	9	16742	2
Dibromochloromethane	21442	6	19868	7
Dibromomethane	27071	10	23862	12
Dichloromethane (Methylene chloride)	40676	7	41467	2
1,1-Dichloroethane (1,1-DCA)	34308	8	33066	4
1,2-Dichloroethane (1,2-DCA)	47261	9	40433	14
1,1-Dichloroethylene (1,1-DCE)	28131	8	27139	4
trans-1,2-Dichloroethylene	31238	8	32114	3
1,2-Dichloropropane	34971	9	32375	7
cis-1,3-Dichloropropylene	29542	8	28220	4
trans-1,3-Dichloropropylene	24517	7	24015	2
1,1,1,2-Tetrachloroethane	25501	9	24783	3
1,1,2,2-Tetrachloroethane	26140	10	23564	10
Tetrachloroethylene (PCE)	35935	8	36293	1
1,1,1-Trichloroethane (1,1,1-TCA)	38866	8	37203	4
1,1,2-Trichloroethane (1,1,2-TCA)	NA	NA	NA	NA
Trichloroethylene (TCE)	35419	10	34738	2
1,2,3-Trichloropropane	NA	NA	NA	NA
Trichlorofluoromethane	32911	6	31424	5
Vinyl chloride (VC)	17591	7	17400	1

INITIAL RF ave = Average response factor from initial calibration; DAILY RF = Response factor from daily calibration; %RSD = Percent relative standard deviation; %DIFF = Percent difference; c = Listed compounds are ordered by laborabory analytical methods: halogenated, aromatic, then remaining compounds identified by GC/MS; d = Value </= 10% for GC EPA Methods 500 % 600 Series, </= 20% for GC EPA Methods 8000 Series, </= 30% for GC/MS Methods; e = Value </= 20% for GC EPA Methods 500 & 600 Series, </= 15% GC Methods 8000 Series, </= 25% for GC/MS Methods; * = Calibration Check Compound (CCC) for GC/MS Method; < = System Performance (SPCC) for GC/MS Method.

III. Calibration Standard (cont'd)

COMPOUND c	INITIAL RF ave	%RSD d	DAILY RF	% DIFF e w/RF ave
Benzene	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA
Ethyl benzene	NA	NA	NA	NA
Toluene	NA	NA	NA	NA
m,p-Xylenes	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA
Acetone	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA
n-Butylbenzene	NA	NA	NA	NA
sec-Butylbenzene	NA	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	NA
2-Chloroethylvinyl ether	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	NA
Dichloro-difluoromethane	NA	NA	NA	NA
cis-1,2-Dichloroethylene	NA	NA	NA	NA
trans-1,2-Dichloroethylene	NA	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA
1,1-Dichloropropylene	NA	NA	NA	NA
Ethylene dibromide (EDB)	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA	NA
Methyl Ethyl Ketone	NA	NA	NA	NA
Methyl Isobutyl Ketone	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA
n-Propylbenzene	NA	NA	NA	NA
Styrene	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA	NA
1,1,2-Trichlorotrifluoroethane	NA	NA	NA	NA

SPK CONC = Spiking concentration (</=5 x PQL); PQL = Practical quantitation limit; %MS = Percent recovery of MS; %MSD = Percent recovery of MSD; RPD = Relative percent difference; ACP = Acceptable range of percent; INITIAL RF ave = Average response factor from initial calibration; DAILY RF = Response factor from daily calibration; %RSD = Percent relative standard deviation; %DIFF = Percent difference; c = Listed compounds are ordered by laboratory analytical methods: halogenated, aromatic, then remaining compounds identified by GC/MS.

d = Value </=10% for GC EPA Methods 500 & 600 Series, </=20% for GC EPA Methods 8000 Series, </=30% for GC/MS Methods.

e = Value </=20% for GC EPA Methods 500 & 600 Series, </=15% for GC EPA Methods 8000 Series, </=25% for GC/MS Methods.

* = Calibration Check Compounds (CCC) for GC/MS Method; < = System Performance Check Compounds (SPCC) for GC/MS Method.

QA/QC REPORT

III. Calibration Standard

	MOST RECENT INITIAL CALIBRATION	DAILY CALIBRATION
Date:	4/4/95	4/7/95
Supply Source:	Ultra Scientific	Ultra Scientific

COMPOUND (c)	INITIAL RF (ave)	%RSD (d)	DAILY RF	% DIFF (e) w/RF ave
Bromobenzene	NA	NA	NA	NA
Bromochloromethane	29994	10	30333	1
Bromodichloromethane	27068	7	27091	0
Bromoform	13540	6	12899	5
Bromomethane	8601	6	9218	7
Carbon tetrachloride	42926	9	45311	6
Chloroethane	24795	10	25194	2
Chloroform	44597	10	45122	1
1-Chlorohexane	NA	NA	NA	NA
Chloromethane	17139	9	17894	4
Dibromochloromethane	21442	6	20948	2
Dibromomethane	27071	10	26228	3
Dichloromethane (Methylene chloride)	40676	7	45202	11
1,1-Dichloroethane (1,1-DCA)	34308	8	36054	5
1,2-Dichloroethane (1,2-DCA)	47261	9	43292	8
1,1-Dichloroethylene (1,1-DCE)	28131	8	28947	3
trans-1,2-Dichloroethylene	31238	8	33709	8
1,2-Dichloropropane	34971	9	34421	2
cis-1,3-Dichloropropylene	29542	8	30400	3
trans-1,3-Dichloropropylene	24517	7	25329	3
1,1,1,2-Tetrachloroethane	25501	9	25139	1
1,1,2,2-Tetrachloroethane	26140	10	25589	2
Tetrachloroethylene (PCE)	35935	8	36763	2
1,1,1-Trichloroethane (1,1,1-TCA)	38866	8	41546	7
1,1,2-Trichloroethane (1,1,2-TCA)	NA	NA	NA	NA
Trichloroethylene (TCE)	35419	10	36222	2
1,2,3-Trichloropropane	NA	NA	NA	NA
Trichlorofluoromethane	32911	6	32093	2
Vinyl chloride (VC)	17591	7	18473	5

INITIAL RF ave = Average response factor from initial calibration; DAILY RF = Response factor from daily calibration; %RSD = Percent relative standard deviation; %DIFF = Percent difference; c = Listed compounds are ordered by laborabory analytical methods: halogenated, aromatic, then remaining compounds identified by GC/MS; d = Value </= 10% for GC EPA Methods 500 % 600 Series, </= 20% for GC EPA Methods 8000 Series, </= 30% for GC/MS Methods; e = Value </= 20% for GC EPA Methods 500 & 600 Series, </= 15% GC Methods 8000 Series, </= 25% for GC/MS Methods; * = Calibration Check Compound (CCC) for GC/MS Method; < = System Performance (SPCC) for GC/MS Method.

III. Calibration Standard (cont'd)

COMPOUND c	INITIAL RF ave	%RSD d	DAILY RF	% DIFF e w/RF ave
Benzene	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA
Ethyl benzene	NA	NA	NA	NA
Toluene	NA	NA	NA	NA
m,p-Xylenes	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA
Acetone	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA
n-Butylbenzene	NA	NA	NA	NA
sec-Butylbenzene	NA	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	NA
2-Chloroethylvinyl ether	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	NA
Dichloro-difluoromethane	NA	NA	NA	NA
cis-1,2-Dichloroethylene	NA	NA	NA	NA
trans-1,2-Dichloroethylene	NA	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA
1,1-Dichloropropylene	NA	NA	NA	NA
Ethylene dibromide (EDB)	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA	NA
Methyl Ethyl Ketone	NA	NA	NA	NA
Methyl Isobutyl Ketone	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA
n-Propylbenzene	NA	NA	NA	NA
Styrene	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA	NA
1,1,2-Trichlorotrifluoroethane	NA	NA	NA	NA

SPK CONC = Spiking concentration (</=5 x PQL); PQL = Practical quantitation limit; %MS = Percent recovery of MS; %MSD = Percent recovery of MSD; RPD = Relative percent difference; ACP = Acceptable range of percent; INITIAL RF ave = Average response factor from initial calibration; DAILY RF = Response factor from daily calibration; %RSD = Percent relative standard deviation; %DIFF = Percent difference; c = Listed compounds are ordered by laboratory analytical methods: halogenated, aromatic, then remaining compounds identified by GC/MS.

d = Value </=10% for GC EPA Methods 500 & 600 Series, </=20% for GC EPA Methods 8000 Series, </=30% for GC/MS Methods.

e = Value </=20% for GC EPA Methods 500 & 600 Series, </=15% for GC EPA Methods 8000 Series, </=25% for GC/MS Methods.

* = Calibration Check Compounds (CCC) for GC/MS Method; < = System Performance Check Compounds (SPCC) for GC/MS Method.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2455.14	Field Logbook No.:	Date: 3-28-95	Serial No.: № N- 4616
Project Name: [illegible]	Project Location: [illegible]		
Sampler (Signature): [illegible]			Samplers: RBL SOLO

SAMPLES						ANALYSES								REMARKS
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624	8010		Lab ID		HOLD	RUSH	
GW-1-32895	3-28-95	11:35		3 V	H_2O			X		L18838-1				ANY QUESTIONS CALL RAY
P2-32895		12:30						X			2			DeRuiz at 955-1390
GW-3-32895		13:30						X			3			
P-1-32895		14:15						X			4			
GW-2-32895		15:00						X			5			
GW-10-32895		11:45						X			6			
EQ-1		09:00	8V					X			7			
TRIP														

RELINQUISHED BY: (Signature) [illegible]	DATE 3-28-95	TIME 1622	RECEIVED BY: (Signature) [illegible]	DATE 3/28/95	TIME 1622
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:

LEVINE-FRICKE
1920 Main Street, Suite 750
Irvine, California 92714
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory:

TORRA TECH LABS

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink) FORM NO. 86/COC/ARF

TMA
Thermo Analytical

1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274
Formerly Terra Tech Labs

LABORATORY REPORT

Client:	Levine-Fricke	Report Date:	4/13/95
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L1848
		Client P.N.:	2455.14
		Lab Cert. #:	1155
Contact:	Ian Goltz		
Project Name:	Calmar	Date Sampled:	3/29/95
Project Address:	City of Industry, CA	Date Received:	3/29/95
		Date Analyzed:	4/8/95
		Physical State:	Liquid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	MS Percent Recovery	MSD Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
1,1-Dichloroethane (EPA 8010)	M	97	101	73-121	4	0-18
1,1,1-Trichloroethane (EPA 8010)	M	94	100	72-126	5	0-15
cis-1,3-Dichloropropene (EPA 8010)	M	92	95	58-124	3	0-22
Chlorobenzene (EPA 8010)	M	99	95	52-131	4	0-42

RECEIVED
APR 18 1995
LEVINE-FRICKE

M = Matrix Spike / Matrix Spike Duplicate

Reviewed

Approved

The samples were received by Thermo Analytical in a chilled state, intact and accompanied by the Chain-of-Custody Record.
Acceptance of samples by Thermo Analytical is not an indication of condition upon receipt.
Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.
The Laboratory Report is the property of the client to whom it is addressed.
The Laboratory Results are only a portion of the Laboratory Report.

A division of Thermo Process Systems Inc., a Thermo Electron company

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	4/13/95
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L1848
		Client P.N.:	2455.14
Project Name:	Calmar	Date Sampled:	3/29/95
Project Address:	City of Industry, CA	Date Analyzed:	4/8/95
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	GW-4-32995	P-3-32995	GW-5-32995	
Parameters	Conc. (µg/l)	Conc. (µg/l)	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	ND	ND	1.0
Vinyl chloride	ND	ND	ND	1.0
Trichlorofluoromethane	ND	ND	ND	1.0
Bromomethane	ND	ND	ND	1.0
Chloroethane	ND	ND	ND	1.0
1,1-Dichloroethene	3.7	ND	ND	1.0
Methylene chloride	ND	ND	ND	10
trans-1,2-Dichloroethene	ND	ND	ND	1.0
1,1-Dichloroethane	ND	ND	ND	1.0
cis-1,2-Dichloroethene	ND	ND	ND	1.0
Chloroform	ND	ND	ND	1.0
1,1,1-Trichloroethane	ND	ND	ND	1.0
Carbon tetrachloride	ND	ND	ND	1.0
1,2-Dichloroethane	ND	ND	ND	1.0
Trichloroethene	2.9	ND	ND	1.0
1,2-Dichloropropane	ND	ND	ND	1.0
Bromodichloromethane	ND	ND	ND	1.0
cis-1,3-Dichloropropene	ND	ND	ND	1.0
trans-1,3-Dichloropropene	ND	ND	ND	1.0
1,1,2-Trichloroethane	ND	ND	ND	1.0
Tetrachloroethene	10	2.4	ND	1.0
Dibromochloromethane	ND	ND	ND	1.0
Chlorobenzene	ND	ND	ND	1.0
Bromoform	ND	ND	ND	1.0
1,1,2,2-Tetrachloroethane	ND	ND	ND	1.0
1,3-Dichlorobenzene	ND	ND	ND	1.0
1,4-Dichlorobenzene	ND	ND	ND	1.0
1,2-Dichlorobenzene	ND	ND	ND	1.0

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	4/13/95
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L1848
		Client P.N.:	2455.14
Project Name:	Calmar	Date Sampled:	3/29/95
Project Address:	City of Industry, CA	Date Analyzed:	4/8/95
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	GW-6-32995	
Parameters	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	1.0
Vinyl chloride	ND	1.0
Trichlorofluoromethane	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethene	2.0	1.0
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	47	5.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	3.7	1.0
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	4/13/95
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L1848
		Client P.N.:	2455.14
Project Name:	Calmar	Date Sampled:	3/29/95
Project Address:	City of Industry, CA	Date Analyzed:	4/8/95
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	GW-7-32995	EQ-2	
Parameters	Conc. (µg/l)	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	ND	1.0
Vinyl chloride	ND	ND	1.0
Trichlorofluoromethane	ND	ND	1.0
Bromomethane	ND	ND	1.0
Chloroethane	ND	ND	1.0
1,1-Dichloroethene	3.6	ND	1.0
Methylene chloride	ND	ND	10
trans-1,2-Dichloroethene	ND	ND	1.0
1,1-Dichloroethane	ND	ND	1.0
cis-1,2-Dichloroethene	ND	ND	1.0
Chloroform	ND	ND	1.0
1,1,1-Trichloroethane	ND	ND	1.0
Carbon tetrachloride	ND	ND	1.0
1,2-Dichloroethane	ND	ND	1.0
Trichloroethene	4.4	ND	1.0
1,2-Dichloropropane	ND	ND	1.0
Bromodichloromethane	ND	ND	1.0
cis-1,3-Dichloropropene	ND	ND	1.0
trans-1,3-Dichloropropene	ND	ND	1.0
1,1,2-Trichloroethane	ND	ND	1.0
Tetrachloroethene	3.8	ND	1.0
Dibromochloromethane	ND	ND	1.0
Chlorobenzene	ND	ND	1.0
Bromoform	ND	ND	1.0
1,1,2,2-Tetrachloroethane	ND	ND	1.0
1,3-Dichlorobenzene	ND	ND	1.0
1,4-Dichlorobenzene	ND	ND	1.0
1,2-Dichlorobenzene	ND	ND	1.0

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

TMA
Thermo Analytical

1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274

Formerly Terra Tech Labs

April 17, 1995

Mr. Ian Goltz
Levine-Fricke
1920 Main St., Ste. 750
Irvine, CA 92714

RE: RWQCB Deliverables Case Narrative for Project L1848/2455.14

Dear Mr. Goltz:

Listed below is additional WIP case narrative information necessary due to special circumstances that were encountered during the analysis of the above-referenced project. This letter should be forwarded to the appropriate agency along with the deliverables package enclosed.

The water samples received by Thermo Analytical on 3/29/95 were analyzed within the allowable holding time for EPA Method 8010. Some of the samples may have been analyzed during the evening shift via auto-samplers both before and after midnight. The dates reported on the forms will then include one date for the samples run before midnight and a different date for the samples run after midnight. All of the samples are considered to have been run in one batch, and will have one set of quality control (QC) data.

It was noted during the EPA Method 8010 analysis that trace amounts of methylene chloride were detected in the associated method blank analyzed on 4/8/95. The samples had similar methylene chloride concentrations detected at levels below the quantitation limit but above the method detection limit. Trace amounts of methylene chloride present in the laboratory environment was the probable cause of the detected compound.

Due to sample concentrations that exceeded the calibration range for selected target compounds, sample dilutions were analyzed on 4/8/95.

All other EPA Method 8010 QC results were within the acceptable limits.

If you should have any questions or need further information, please contact me at 714.757.7022.

Sincerely,

Patty Mata
Program Manager

Enclosure

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM

Laboratory Name: Thermo Analytical
Address: 1920 E. Deere Avenue, Santa Ana, CA 92705

Telephone: (714) 757-7022

Laboratory Certification
(ELAP) Number: 1155 Expiration Date: 3/31/96

Program Manager's Name (Print): Patricia Mata

Program Manager's Signature: Patricia Mata

Client: Levine-Fricke
Project Number: L1848/2455.14

Analytical Method: (Circle One)				
	EPA 502.1	EPA 503.1	EPA 502.2	EPA 524.1
				EPA 524.2
	EPA 601	EPA 602		EPA 624
	[EPA 8010]	EPA 8020	EPA 8021	EPA 8240
				EPA 8260
Other				
Date Sampled:	3/29/95			
Date Received:	3/29/95			
Date Reported:	4/13/95			
Sample Matrix:	Liquid			
Extraction Method:	EPA 5030A			
Extraction Material:	-			

Chain of Custody Received: [Yes] No

Sample Condition: Received chilled.

- - Sample Headspace Description (%): Zero Headspace
- - Sample Container Material: 40 mL glass VOA vials

Comments:

ANALYTICAL TEST RESULT (a)

Reporting Unit (Circle One): µg/kg | µg/l

		DATE ANALYZED:	4/8/95	4/8/95	4/8/95	4/8/95	4/8/95
		DATE EXTRACTED:	-	-	-	-	-
		DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0
		LAB SAMPLE I.D.:	L1848-1	L1848-2	L1848-3	L1848-4	L1848-5
		CLIENT SAMPLE I.D.:	GW-4-32995	P-3-32995	GW-5-32995	GW-6-32995	GW-7-32995
COMPOUND (b)	MDL	MB					
Bromobenzene	-	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.20	ND	ND	ND	ND	ND	ND
Bromoform	0.05	ND	ND	ND	ND	ND	ND
Bromomethane	0.09	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.10	ND	ND	ND	ND	ND	ND
Chloroethane	0.07	ND	ND	ND	ND	ND	ND
Chloroform	0.08	ND	0.09	ND	ND	0.11	0.08
1-Chlorohexane	-	NA	NA	NA	NA	NA	NA
Chloromethane	0.08	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.10	ND	ND	ND	ND	ND	ND
Dibromomethane	-	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	0.06	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	0.13	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	0.13	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	0.20	ND	3.7	ND	ND	2.0	3.6
trans-1,2-Dichloroethylene	0.09	ND	ND	ND	ND	ND	ND
Dichloromethane (MeCl2)	0.52	8.7	7.5	7.4	7.2	5.5	5.2
1,2-Dichloropropane	0.08	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	0.09	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	0.05	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	-	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.08	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.08	ND	10	2.4	0.21	3.7	3.8
1,1,1-Trichloroethane (1,1,1-TCA)	0.30	ND	0.37	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	0.10	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.09	ND	2.9	0.75	0.21	47*	4.4
1,2,3-Trichloropropane	-	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	0.15	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.22	ND	ND	ND	ND	ND	ND
Benzene	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	-	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	-	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	-	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	-	NA	NA	NA	NA	NA	NA
Toluene	-	NA	NA	NA	NA	NA	NA

a = Report Any Value >/= MDL; b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

*Dilution Factor = 5; analyzed 4/8/95

ANALYTICAL TEST RESULT (cont'd)

		LAB SAMPLE I.D.:	L1848-1	L1848-2	L1848-3	L1848-4	L1848-5
		CLIENT SAMPLE I.D.:	GW-4-32995	P-3-32995	GW-5-32995	GW-6-32995	GW-7-32995
COMPOUND (b)	MDL	MB					
m,p-Xylenes	-	NA	NA	NA	NA	NA	NA
o-Xylene	-	NA	NA	NA	NA	NA	NA
Acetone	-	NA	NA	NA	NA	NA	NA
Acrolein	-	NA	NA	NA	NA	NA	NA
Acrylonitrile	-	NA	NA	NA	NA	NA	NA
Bromochloromethane	-	NA	NA	NA	NA	NA	NA
n-Butylbenzene	-	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	-	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	-	NA	NA	NA	NA	NA	NA
2-Chloroethylvinyl ether	-	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	-	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	-	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	-	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethylene	-	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	-	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	-	NA	NA	NA	NA	NA	NA
1,1-Dichloropropylene	-	NA	NA	NA	NA	NA	NA
Ethylene dibromide (EDB)	-	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	-	NA	NA	NA	NA	NA	NA
Isopropylbenzene	-	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	-	NA	NA	NA	NA	NA	NA
Methyl Ethyl Ketone	-	NA	NA	NA	NA	NA	NA
Methyl Isobutyl Ketone	-	NA	NA	NA	NA	NA	NA
Naphthalene	-	NA	NA	NA	NA	NA	NA
n-Propylbenzene	-	NA	NA	NA	NA	NA	NA
Styrene	-	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	-	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	-	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	-	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	-	NA	NA	NA	NA	NA	NA
1,1,2-Trichlorotrifluoroethane	-	NA	NA	NA	NA	NA	NA
Surrogate	Spk Conc	ACP%	MB %RC	%RC	%RC	%RC	%RC
2-Chloropropane	20	38-153	114	147*	100	99	80	90
2-Bromo-1-chloropropane	20	65-135	94	120	92	93	89	95

*Value outside of acceptable range due to possible matrix interference on primary column. Confirmation column showed 90% recovery for 2-Chloropropane.

a = Report Any Value >/= MDL; b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

SPK CONC = Spiking Concentration (</= 5 x PQL); ACP % = Acceptable Range of Percent; %RC = % Recovery

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed

ANALYTICAL TEST RESULT (a)

Reporting Unit (Circle One): µg/kg | µg/l

		DATE ANALYZED:	4/8/95				
		DATE EXTRACTED:	-				
		DILUTION FACTOR:	1.0				
		LAB SAMPLE I.D.:	L1848-6				
		CLIENT SAMPLE I.D.:	EQ-2				
COMPOUND (b)	MDL	MB					
Bromobenzene	-	NA	NA				
Bromodichloromethane	0.20	ND	ND				
Bromoform	0.05	ND	ND				
Bromomethane	0.09	ND	ND				
Carbon tetrachloride	0.10	ND	ND				
Chloroethane	0.07	ND	ND				
Chloroform	0.08	ND	ND				
1-Chlorohexane	-	NA	NA				
Chloromethane	0.08	ND	ND				
Dibromochloromethane	0.10	ND	ND				
Dibromomethane	-	NA	NA				
Dichlorodifluoromethane	0.06	ND	ND				
1,1-Dichloroethane (1,1-DCA)	0.13	ND	ND				
1,2-Dichloroethane (1,2-DCA)	0.13	ND	ND				
1,1-Dichloroethylene (1,1-DCE)	0.20	ND	ND				
trans-1,2-Dichloroethylene	0.09	ND	ND				
Dichloromethane (MeCl2)	0.52	8.7	5.5				
1,2-Dichloropropane	0.08	ND	ND				
cis-1,3-Dichloropropylene	0.09	ND	ND				
trans-1,3-Dichloropropylene	0.05	ND	ND				
1,1,1,2-Tetrachloroethane	-	NA	NA				
1,1,2,2-Tetrachloroethane	0.08	ND	ND				
Tetrachloroethylene (PCE)	0.08	ND	ND				
1,1,1-Trichloroethane (1,1,1-TCA)	0.30	ND	ND				
1,1,2-Trichloroethane (1,1,2-TCA)	0.10	ND	ND				
Trichloroethylene (TCE)	0.09	ND	ND				
1,2,3-Trichloropropane	-	NA	NA				
Trichlorofluoromethane	0.15	ND	ND				
Vinyl chloride	0.22	ND	ND				
Benzene	-	NA	NA				
Chlorobenzene	-	NA	NA				
1,2-Dichlorobenzene	-	NA	NA				
1,3-Dichlorobenzene	-	NA	NA				
1,4-Dichlorobenzene	-	NA	NA				
Ethyl benzene	-	NA	NA				
Toluene	-	NA	NA				

a = Report Any Value >/= MDL; b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

ANALYTICAL TEST RESULT (cont'd)

		LAB SAMPLE I.D.:	L1848-6				
		CLIENT SAMPLE I.D.:	EQ-2				
COMPOUND (b)	MDL	MB					
m,p-Xylenes	-	NA	NA				
o-Xylene	-	NA	NA				
Acetone	-	NA	NA				
Acrolein	-	NA	NA				
Acrylonitrile	-	NA	NA				
Bromochloromethane	-	NA	NA				
n-Butylbenzene	-	NA	NA				
sec-Butylbenzene	-	NA	NA				
tert-Butylbenzene	-	NA	NA				
2-Chloroethylvinyl ether	-	NA	NA				
2-Chlorotoluene	-	NA	NA				
4-Chlorotoluene	-	NA	NA				
Dichlorodifluoromethane	-	NA	NA				
cis-1,2-Dichloroethylene	-	NA	NA				
1,3-Dichloropropane	-	NA	NA				
2,2-Dichloropropane	-	NA	NA				
1,1-Dichloropropylene	-	NA	NA				
Ethylene dibromide (EDB)	-	NA	NA				
Hexachlorobutadiene	-	NA	NA				
Isopropylbenzene	-	NA	NA				
p-Isopropyltoluene	-	NA	NA				
Methyl Ethyl Ketone	-	NA	NA				
Methyl Isobutyl Ketone	-	NA	NA				
Naphthalene	-	NA	NA				
n-Propylbenzene	-	NA	NA				
Styrene	-	NA	NA				
1,2,3-Trichlorobenzene	-	NA	NA				
1,2,4-Trichlorobenzene	-	NA	NA				
1,2,4-Trimethylbenzene	-	NA	NA				
1,3,5-Trimethylbenzene	-	NA	NA				
1,1,2-Trichlorotrifluoroethane	-	NA	NA				
Surrogate	Spk Conc	ACP%	MB %RC	%RC	%RC	%RC	%RC	%RC
2-Chloropropane	20	38-153	114	77				
2-Bromo-1-chloropropane	20	65-135	94	72				

a = Report Any Value >/= MDL; b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

SPK CONC = Spiking Concentration (</= 5 x PQL); ACP % = Acceptable Range of Percent; %RC = % Recovery

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed

QA/QC REPORT

Reporting Unit (Circle One): µg/kg [µg/l]

I. Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)

Date Performed: 4/8/95
Batch #: 040895L
Lab Sample ID: L1848-1

ANALYTE	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP %MS	ACP RPD
1,1-Dichloroethane	20.0	19.4	97	20.2	101	4	73-121	0-18
1,1,1-Trichloroethane	20.0	18.9	94	19.9	100	5	72-126	0-15
cis-1,3-Dichloropropene	20.0	18.5	92	19.0	95	3	58-124	0-22
Chlorobenzene	20.0	19.8	99	18.9	95	4	52-131	0-42

II. Laboratory Quality Control Check Sample

Date Performed: 4/8/95
Batch #: 040895LCS
Lab Sample ID: LCS

ANALYTE	SPK CONC	RESULT	% RECOVERY	ACP %
1,1-Dichloroethane	20.0	18.7	94	80-120
1,1,1-Trichloroethane	20.0	17.9	90	80-120
cis-1,3-Dichloropropene	20.0	17.1	86	80-120
Chlorobenzene	20.0	18.0	90	80-120

ANALYST

4/17/95
DATE

QA/QC REPORT

III. Calibration Standard

	MOST RECENT INITIAL CALIBRATION	DAILY CALIBRATION
Date:	4/4/95	4/7/95
Supply Source:	Ultra Scientific	Ultra Scientific

COMPOUND (c)	INITIAL RF (ave)	%RSD (d)	DAILY RF	% DIFF (e) w/RF ave
Bromobenzene	NA	NA	NA	NA
Bromochloromethane	29994	10	30333	1
Bromodichloromethane	27068	7	27091	0
Bromoform	13540	6	12899	5
Bromomethane	8601	6	9218	7
Carbon tetrachloride	42926	9	45311	6
Chloroethane	24795	10	25194	2
Chloroform	44597	10	45122	1
1-Chlorohexane	NA	NA	NA	NA
Chloromethane	17139	9	17894	4
Dibromochloromethane	21442	6	20948	2
Dibromomethane	27071	10	26228	3
Dichloromethane (Methylene chloride)	40676	7	45202	11
1,1-Dichloroethane (1,1-DCA)	34308	8	36054	5
1,2-Dichloroethane (1,2-DCA)	47261	9	43292	8
1,1-Dichloroethylene (1,1-DCE)	28131	8	28947	3
trans-1,2-Dichloroethylene	31238	8	33709	8
1,2-Dichloropropane	34971	9	34421	2
cis-1,3-Dichloropropylene	29542	8	30400	3
trans-1,3-Dichloropropylene	24517	7	25329	3
1,1,1,2-Tetrachloroethane	25501	9	25139	1
1,1,2,2-Tetrachloroethane	26140	10	25589	2
Tetrachloroethylene (PCE)	35935	8	36763	2
1,1,1-Trichloroethane (1,1,1-TCA)	38866	8	41546	7
1,1,2-Trichloroethane (1,1,2-TCA)	NA	NA	NA	NA
Trichloroethylene (TCE)	35419	10	36222	2
1,2,3-Trichloropropane	NA	NA	NA	NA
Trichlorofluoromethane	32911	6	32093	2
Vinyl chloride (VC)	17591	7	18473	5

INITIAL RF ave = Average response factor from initial calibration; DAILY RF = Response factor from daily calibration; %RSD = Percent relative standard deviation; %DIFF = Percent difference; c = Listed compounds are ordered by laboratory analytical methods: halogenated, aromatic, then remaining compounds identified by GC/MS; d = Value </= 10% for GC EPA Methods 500 % 600 Series, </= 20% for GC EPA Methods 8000 Series, </= 30% for GC/MS Methods; e = Value </= 20% for GC EPA Methods 500 & 600 Series, </= 15% GC Methods 8000 Series, </= 25% for GC/MS Methods; * = Calibration Check Compound (CCC) for GC/MS Method; < = System Performance (SPCC) for GC/MS Method.

III. Calibration Standard (cont'd)

COMPOUND c	INITIAL RF ave	%RSD d	DAILY RF	% DIFF e w/RF ave
Benzene	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA
Ethyl benzene	NA	NA	NA	NA
Toluene	NA	NA	NA	NA
m,p-Xylenes	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA
Acetone	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA
n-Butylbenzene	NA	NA	NA	NA
sec-Butylbenzene	NA	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	NA
2-Chloroethylvinyl ether	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	NA
Dichloro-difluoromethane	NA	NA	NA	NA
cis-1,2-Dichloroethylene	NA	NA	NA	NA
trans-1,2-Dichloroethylene	NA	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA
1,1-Dichloropropylene	NA	NA	NA	NA
Ethylene dibromide (EDB)	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA	NA
Methyl Ethyl Ketone	NA	NA	NA	NA
Methyl Isobutyl Ketone	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA
n-Propylbenzene	NA	NA	NA	NA
Styrene	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA	NA
1,1,2-Trichlorotrifluoroethane	NA	NA	NA	NA

SPK CONC = Spiking concentration (</=5 x PQL); PQL = Practical quantitation limit; %MS = Percent recovery of MS; %MSD = Percent recovery of MSD; RPD = Relative percent difference; ACP = Acceptable range of percent; INITIAL RF ave = Average response factor from initial calibration; DAILY RF = Response factor from daily calibration; %RSD = Percent relative standard deviation; %DIFF = Percent difference; c = Listed compounds are ordered by laboratory analytical methods: halogenated, aromatic, then remaining compounds identified by GC/MS.

d = Value </=10% for GC EPA Methods 500 & 600 Series, </=20% for GC EPA Methods 8000 Series, </=30% for GC/MS Methods.

e = Value </=20% for GC EPA Methods 500 & 600 Series, </=15% for GC EPA Methods 8000 Series, </=25% for GC/MS Methods.

* = Calibration Check Compounds (CCC) for GC/MS Method; < = System Performance Check Compounds (SPCC) for GC/MS Method.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2455.14

Field Logbook No.:

Date: 3-29-95

Serial No.: № N- 4621

Project Name: CAMAR

Project Location: City of Industry

Sampler (Signature): [signature] TIT

Samplers: RBD BOLD

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	EPA 601	EPA 624	BOLD					HOLD	RUSH	REMARKS
GW-4-32995	3-29-95	9:45	21848-1	3V	H_2O			X							Any Questions Contact
P-3-32995	↓	10:30	2	↓	↓			X							Ray Darling at 955-1310
GW-5-32995		11:30	3					X							
GW-6-32995		12:30	4					X							
GW-7-32995		13:30	5	↓				X							
EQ-2	↓	9:00	6	2V	↓			X							

RELINQUISHED BY: (Signature) [signature]	DATE 3-29-95	TIME 1440	RECEIVED BY: (Signature) [signature]	DATE 3/29/95	TIME 1440
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:

LEVINE-FRICKE
1920 Main Street, Suite 750
Irvine, California 92714
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory:

TOXICA 75 CA

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink) FORM NO. 86/COC/ARF