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Annual Data Report for 1999 Groundwater Sampling and Analysis at the Calmar Facility City of Industry, California

January 10, 2000
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Prepared for
California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, California 91754

LFR
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CERTIFICATION*

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

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1.0 INTRODUCTION

At the request of the California Regional Water Quality Control Board, Los Angeles Region (RWQCB), Calmar, Inc., is currently conducting annual groundwater monitoring at its facility located at 333 South Turnbull Canyon Road in the City of Industry, Los Angeles County, California ("the Site"; Figure 1). On behalf of Calmar, LFR Levine·Fricke (LFR) has prepared this data report to summarize the results of the groundwater sampling conducted at the Site on January 12 and July 22, 1999.

2.0 SCOPE OF WORK

LFR performed the following activities at the Site:

- collected depth-to-groundwater measurements (monitoring wells MW-1 through MW-7 and piezometers P-2 and P-3) on January 12 and July 22, 1999
- purged monitoring wells and collected groundwater samples

LFR's field protocols and groundwater sampling procedures are presented in Appendix A.

3.0 GROUNDWATER ELEVATION AND FLOW DIRECTION

Depth-to-groundwater measurements, along with historical groundwater elevation data collected at the Site, are summarized in Table 1. Groundwater elevation data from January 12 and July 22, 1999, were used to construct groundwater elevation contour maps for the Site (Figures 2 and 3). Groundwater flow at the Site appeared to be northerly trending, with some mounding in the western portion of the Site. The groundwater flow direction measured during the 1999 groundwater monitoring events is consistent with measurements over the past two years.

The groundwater elevations measured in January 1999 all appeared to be higher than those measured during the previous monitoring event in July 1998. Monitoring well MW-5 rose the most, approximately 2.55 feet, and the rest of the wells rose approximately 0.5 foot. By July 1999, groundwater elevations had dropped between 0.75 foot (in MW-4 and MW-7) to 0.42 foot (in P-2).

4.0 ANALYTICAL RESULTS FOR GROUNDWATER SAMPLING

Groundwater samples were submitted to Apollo Analytics, Inc., of Costa Mesa, California. All samples were submitted under chain-of-custody documentation for analysis of halogenated organic compounds using EPA Method 8260B.

Analytical results for groundwater samples collected on January 12 and July 22, 1999, are summarized in Table 2 and Figure 4.

In general, volatile organic compound (VOC) concentrations in all on-site monitoring wells are relatively stable compared to 1998 values. However, off-site and hydraulically upgradient wells (MW-6 and MW-7) have some significant changes. MW-6 showed a decrease in trichloroethene (TCE) from 570 µg/l in January 1999 to 71 µg/l in July 1999. In MW-7, concentrations of 1,1 dichloroethene (1,1 DCE) rose from 110 µg/l in January 1999 to 320 µg/l in July 1999; vinyl chloride, which was undetected in January 1999, was detected at 10 µg/l during the July 1999 monitoring event. Freon 113, which was not detected in any samples in January 1999, was detected at concentrations of 16 µg/l and 13 µg/l in MW-5 and P-3, respectively.

Quality assurance/quality control samples were also analyzed. Analytical results indicate that duplicate samples collected during both monitoring events are generally consistent with each other.

5.0 FUTURE ACTIVITIES

LFR will continue to conduct semiannual water sampling and annual reporting of the groundwater monitoring wells.

Table 1 :
SUMMARY OF GROUNDWATER ELEVATION DATA
Calmar - City of Industry
LFR 2455.01

Well Number	Well Elevation (feet-MSL)	Date Sampled	Depth to Water (feet)	Groundwater Elevation (feet-MSL)	Relative Change (feet)
MW-1	303.32	3/29/89	35.84	267.48	--
		4/29/91	42.65	260.67	-6.81
		5/10/91	42.72	260.60	-0.07
		7/30/91	43.52	259.80	-0.80
		10/11/91	44.24	259.08	-0.72
		3/25/92	43.77	259.55	0.47
	303.16 *	4/15/93	37.01	266.15	6.60
		7/30/93	34.62	268.54	2.39
		11/30/93	32.92	270.24	1.70
		4/28/94	31.11	272.05	1.81
		7/27/94	30.89	272.27	0.22
		10/6/94	31.31	271.85	-0.42
		1/26/95	30.97	272.19	0.34
		3/28/95	29.77	273.39	1.20
		1/25/96	27.54	275.62	2.23
		7/23/96	27.67	275.49	-0.13
		1/17/97	27.67	275.49	0.00
		7/8/97	28.29	274.87	-0.62
		2/12/98	29.40	273.76	-1.11
		7/29/98	27.02	276.14	2.38
		1/12/99	26.44	276.72	0.58
		7/22/99	27.14	276.02	-0.70
MW-2	303.29	3/29/89	35.14	268.15	--
		4/29/91	41.38	261.91	-6.24
		5/10/91	41.45	261.84	-0.07
		7/30/91	42.12	261.17	-0.67
		10/11/91	42.67	260.62	-0.55
		3/25/92	42.21	261.08	0.46
	303.15 *	4/15/93	36.10	267.05	5.97
		7/30/93	33.86	269.29	2.24
		11/30/93	32.22	270.93	1.64
		4/28/94	30.42	272.73	1.80
		7/27/94	30.21	272.94	0.21
		10/6/94	30.65	272.50	-0.44
		1/26/95	30.29	272.86	0.36
		3/28/95	29.09	274.06	1.20
		1/25/96	26.77	276.38	2.32
		7/23/96	26.90	276.25	-0.13
		1/17/97	26.84	276.31	0.06
		7/8/97	27.47	275.68	-0.63
		2/12/98	28.50	274.65	-1.03
		7/29/98	26.19	276.96	2.31
		1/12/99	25.64	277.51	0.55
		7/22/99	26.33	276.82	-0.69
MW-3	302.67	3/29/89	35.01	267.66	--
		4/29/91	41.67	261.00	-6.66
		5/10/91	41.72	260.95	-0.05
		7/30/91	42.50	260.17	-0.78
		10/11/91	43.11	259.56	-0.61
		3/25/92	42.50	260.17	0.61
	302.36 *	4/15/93	35.92	266.44	6.27
		7/30/93	33.71	268.65	2.21

Table 1 :
SUMMARY OF GROUNDWATER ELEVATION DATA
Calmar - City of Industry
LFR 2455.01

Well Number	Well Elevation (feet-MSL)	Date Sampled	Depth to Water (feet)	Groundwater Elevation (feet-MSL)	Relative Change (feet)
MW-3		11/30/93	Well Inaccessible		
		4/28/94	30.11	272.25	3.60
		7/27/94	29.92	272.44	0.19
		10/6/94	30.34	272.02	-0.42
		1/26/95	29.46	272.90	0.88
		3/28/95	28.43	273.93	1.03
		1/25/96	26.34	276.02	2.09
		7/23/96	26.07	276.29	0.27
		1/17/97	25.28	277.08	0.79
		7/8/97	26.57	275.79	-1.29
		2/12/98	26.83	275.53	-0.26
		7/29/98	25.32	277.04	1.51
		1/12/99	24.96	277.40	0.36
		7/22/99	25.50	276.86	-0.54
MW-4	304.78	4/15/93	35.85	268.93	--
		7/30/93	33.96	270.82	1.89
		11/30/93	32.46	272.32	1.50
		4/28/94	30.76	274.02	1.70
		7/27/94	30.56	274.22	0.20
		10/6/94	31.01	273.77	-0.45
		1/26/95	30.61	274.17	0.40
		3/28/95	29.41	275.37	1.20
		1/25/96	27.42	277.36	1.99
		7/23/96	27.52	277.26	-0.10
		1/17/97	27.45	277.33	0.07
		7/8/97	28.06	276.72	-0.61
		2/12/98	29.05	275.73	-0.99
		7/29/98	26.91	277.87	2.14
		1/12/99	26.35	278.43	0.56
		7/22/99	27.10	277.68	-0.75
MW-5	304.09	4/15/93	34.09	270.00	--
		7/30/93	32.31	271.78	1.78
		11/30/93	30.90	273.19	1.41
		4/28/94	29.27	274.82	1.63
		7/27/94	29.04	275.05	0.23
		10/6/94	29.46	274.63	-0.42
		1/26/95	28.98	275.11	0.48
		3/28/95	27.80	276.29	1.18
		1/25/96	25.97	278.12	1.83
		7/23/96	26.03	278.06	-0.06
		1/17/97	25.88	278.21	0.15
		7/8/97	Well Inaccessible		
		2/12/98	26.56	277.53	-0.68
		7/29/98	26.60	277.49	-0.04
		1/12/99	24.05	280.04	2.55
		7/22/99	24.71	279.38	-0.66
MW-6	303.50	7/30/93	33.87	269.63	--
		11/30/93	32.37	271.13	1.50
		4/28/94	30.59	272.91	1.78
		7/27/94	30.35	273.15	0.24
		10/6/94	30.75	272.75	-0.40

Table 1 :
SUMMARY OF GROUNDWATER ELEVATION DATA
Calmar - City of Industry
LFR 2455.01

Well Number	Well Elevation (feet-MSL)	Date Sampled	Depth to Water (feet)	Groundwater Elevation (feet-MSL)	Relative Change (feet)
MW-6		1/26/95	30.42	273.08	0.33
		3/28/95	29.21	274.29	1.21
		1/25/96	27.09	276.41	2.12
		7/23/96	27.21	276.29	-0.12
		1/17/97	27.15	276.35	0.06
		7/8/97	27.78	275.72	-0.63
		2/12/98	28.82	274.68	-1.04
		7/29/98	26.52	276.98	2.30
		1/12/99	25.96	277.54	0.56
		7/22/99	26.63	276.87	-0.67
MW-7	303.04	7/30/93	34.00	269.04	--
		11/30/93	32.24	270.80	1.76
		4/28/94	30.43	272.61	1.81
		7/27/94	30.20	272.84	0.23
		10/6/94	30.61	272.43	-0.41
		1/26/95	30.78	272.26	-0.17
		3/28/95	29.05	273.99	1.73
		1/25/96	26.90	276.14	2.15
		7/23/96	27.05	275.99	-0.15
		1/17/97	26.97	276.07	0.08
		7/8/97	27.62	275.42	-0.65
		2/12/98	28.69	274.35	-1.07
		7/29/98	26.29	276.75	2.40
		1/12/99	25.76	277.28	0.53
		7/22/99	26.51	276.53	-0.75
P-1	301.99	3/29/89	34.06	267.93	--
		4/29/91	40.59	261.40	-6.53
		5/10/91	40.66	261.33	-0.07
		7/30/91	41.40	260.59	-0.74
		10/11/91	41.95	260.04	-0.55
		3/25/92	41.16	260.83	0.79
	301.65 *	4/15/93	34.94	266.71	5.88
		7/30/93	32.76	268.89	2.18
		11/30/93	Well Inaccessible		
		4/28/94	29.11	272.54	3.65
		7/27/94	29.04	272.61	0.07
		10/6/94	29.05	272.60	-0.01
		1/26/95	28.53	273.12	0.52
		3/28/95	27.78	273.87	0.75
		1/25/96	26.02	275.63	1.76
		7/23/96	26.11	275.54	-0.09
		1/17/97	Well Inaccessible		
		7/8/97	26.67	274.98	-0.56
		2/12/98	Well Inaccessible		
?		7/29/98	Well Inaccessible		
		1/12/99	24.73	276.92	1.94
P-2	303.09	3/29/89	35.14	267.95	--
		4/29/91	42.04	261.05	-6.90
		5/10/91	40.10	262.99	1.94
		7/30/91	42.82	260.27	-2.72
		10/11/91	43.43	259.66	-0.61

Table 1 :
SUMMARY OF GROUNDWATER ELEVATION DATA
Calmar - City of Industry
LFR 2455.01

Well Number	Well Elevation (feet-MSL)	Date Sampled	Depth to Water (feet)	Groundwater Elevation (feet-MSL)	Relative Change (feet)
P-2		3/25/92	43.01	260.08	0.42
		4/15/93	36.58	266.51	6.43
		7/30/93	34.25	268.84	2.33
		11/30/93	32.59	270.50	1.66
		4/28/94	30.78	272.31	1.81
		7/27/94	30.52	272.57	0.26
		10/6/94	30.94	272.15	-0.42
		1/26/95	30.62	272.47	0.32
		3/28/95	29.43	273.66	1.19
		1/25/96	27.18	275.91	2.25
		7/23/96	27.31	275.78	-0.13
		1/17/97	27.30	275.79	0.01
		7/8/97	27.91	275.18	-0.61
		2/12/98	28.96	274.13	-1.05
		7/29/98	26.59	276.50	2.37
		1/12/99	26.05	277.04	0.54
		7/22/99	26.73	276.36	-0.68
P-3	305.11	3/29/89	36.59	268.52	--
		4/29/91	40.59	264.52	-4.00
		5/10/91	40.68	264.43	-0.09
		7/30/91	41.86	263.25	-1.18
		10/11/91	42.07	263.04	-0.21
		3/25/92	41.21	263.90	0.86
	305.01 *	4/15/93	35.12	269.89	5.99
		7/30/93	33.96	271.05	1.16
		11/30/93	32.12	272.89	1.84
		4/28/94	30.48	274.53	1.64
		7/27/94	30.33	274.68	0.15
		10/6/94	30.76	274.25	-0.43
		1/26/95	30.04	274.97	0.72
		3/28/95	28.62	276.39	1.42
		1/25/96	26.64	278.37	1.98
		7/23/96	26.66	278.35	-0.02
		1/17/97	26.23	278.78	0.43
		7/8/97	27.08	277.93	-0.85
		2/12/98	28.12	276.89	-1.04
		7/29/98	26.00	279.01	2.12
		1/12/99	25.36	279.65	0.64
		7/22/99	26.07	278.94	-0.71

NOTES:

MSL = Mean Sea Level
* = Resurveyed after top of casing trimmed in April 1993.

QA/QC: _____

Table 2:

SUMMARY OF DETECTED
VOCs (EPA Method 8010/601) and BTEX (EPA Method 8020/602) IN GROUNDWATER SAMPLES

Calmar - City of Industry
LFR 2455.01

All concentrations 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	Benzene	Toluene	Ethylbenzene	Xylene	Freon 113	Vinyl Chloride	Trans-1,2-DCE	Other Compounds
MW-1	9/1/88 *	20	23	6.1	ND	TR	ND	6.5	TR	TR	<0.5	TR	NR	NR	NR	
	4/29/91 **	34	34	19	ND	2.9	ND	4.5	<1.0	<1.0	<1.0	<1.0	NR	<0.5	ND	
	10/11/91	32	27	16	ND	2.0	ND	3.0	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<1.0	Methylene chloride 1.0***; Freon-TF 44.0
	3/25/92	12	16	4.4	ND	1.7	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	NR	<0.5	<0.5	
	4/16/93	18	15	11	<1.0	<1.0	<1.0	2.0	<1.0	1.7	<1.0	<1.0	NR	<1.0	<1.0	
	8/3/93	13	ND	7.0	ND	ND	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	Chloromethene 18.0
	11/30/93	12	8.0	3.5	<1.0	<1.0	<1.0	1.5	NA	NA	NA	NA	NR	<1.0	ND	
	3/28/94	18	9.9	5.2	<1.0	<1.0	<1.0	2.6	NA	NA	NA	NA	NR	<1.0	ND	
	6/21/94	14	6.2	3.4	<1.0	<1.0	<1.0	1.7	NA	NA	NA	NA	NR	<1.0	ND	
	10/6/94	13	6.0	2.7	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	10/6/94 (D)	13	5.7	2.6	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	1/26/95	13	6.1	1.5	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/28/95	12	5.9	1.6	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<0.22	<0.9	Chloroform 0.35; Dichloromethane 2.5
	3/28/95 (D)	9.0	3.5	4.4	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<0.22	<0.9	Chloroform 0.14; Dichloromethane 1.8
	1/26/96	12	4.5	2.1	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/24/96	8.7	2.8	0.79	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	3.4	<0.5	<0.5	
	7/24/96 (D)	9.3	3.1	0.86	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	3.7	<0.5	<0.5	
	1/16/97	7.4	3.3	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	3.8	<0.5	<0.5	
	7/8/97	8.2	3.2	<0.5	<0.5	1.1	<0.5	<0.5	NA	NA	NA	NA	6.8	<0.5	<0.5	
	2/12/98	6.6	2.4	<0.5	<1.0	<0.5	<0.5	<1.0	NA	NA	NA	NA	4.6	<0.5	<2.0	
	7/29/98	5.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	<5.0	<5.0	
	1/13/99	5.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
	7/22/99	6.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
	7/22/99 (D)	6.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
MW-2	9/1/88 *	7.0	42	4.0	ND	1.9	ND	0.77	<0.5	<0.5	<0.5	<0.5	NR	NR	NA	
	4/29/91 **	11	140	52	5.4	2.2	ND	73	<1.0	<1.0	<1.0	<1.0	NR	<0.5	NA	
	10/11/91	13	5.0	2.0	ND	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<1.0	Freon-TF 15.0
	3/25/92	7.2	84	20	2.5	2.0	<1.0	33	<0.5	<0.5	<0.5	<0.5	NR	<1.0	<1.0	
	4/15/93	8.2	250	96	20	3.9	<1.0	98	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/2/93	4.7	110	49	9.2	1.6	<1.0	34	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	Chloromethane 9.6; 1,2-Dichloropropane 200
	12/1/93	6.2	200	26	4.2	1.7	<1.0	13	NA	NA	NA	NA	NR	<0.27	<0.22	
	3/29/94	7.3	260	40	6.7	1.9	<1.0	20	NA	NA	NA	NA	NR	<1.0	ND	Dichloromethane 4.6
	6/22/94	4.2	<5.0	22	4.8	<1.0	<1.0	12	NA	NA	NA	NA	NR	<0.22	<0.43	
	10/6/94	6.2	44	8.2	2.6	<1.0	<1.0	4.9	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	1/26/95	5.7	200	31	7.9	<1.0	<1.0	15	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/28/95	5.3	100	22	4.7	1.6	<1.0	7.3	NA	NA	NA	NA	NR	<0.22	<0.09	Dichloromethane 8.3
	1/25/96	4.1	130	13	3.1	<1.0	<1.0	3.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	1/25/96 (D)	4.2	130	13	3.0	<1.0	<1.0	2.9	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/23/96	2.4	92	10	1.8	<1.0	<1.0	1.7	NA	NA	NA	NA	<1.0	<0.22	<0.09	
	1/17/97	3.8	81	14	3.6	1.4	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	7/8/97	3.4	100	10	2.7	1.6	<0.5	1.2	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	2/12/98	3.7	98	9.6	3.3	1.4	<0.5	1.0	NA	NA	NA	NA	<2.0	<0.5	<2.0	
	7/29/98	<5.0	87	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	<5.0	<5.0	
	7/29/98 (D)	<5.0	93	12	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	<5.0	<5.0	
	1/13/99	<5.0	68	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
	7/23/99	<5.0	70	9.3	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
MW-3	9/1/88 *	47	20	79	36	TR	0.98	2.3	<0.5	<0.5	TR	<0.5	NR	NR	NR	
	4/29/91 **	170	210	27	2.8	ND	ND	5.4	<1.0	<1.0	<1.0	<1.0	NR	<0.5	ND	
	4/15/93	170	24	71	7.5	<1.0	<1.0	4.2	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/2/93	160	23	47	9.6	ND	<1.0	2.3	<5.0	<5.0	<5.0	<5.0	NR	<1.0	<1.0	
	11/30/93	360	19	17	1.0	<1.0	<1.0	2.5	NA	NA	NA	NA	NR	<1.0	<1.0	
	11/30/93 (D)	320	19	16	<1.0	<1.0	<1.0	2.5	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/94	410	17	12	1.1	1.2	<1.0	2.9	NA	NA	NA	NA	NR	<1.0	<1.0	Dichloromethane 4.0
	6/22/94	160	11	16	<1.0	<1.0	<1.0	1.6	NA	NA	NA	NA	NR	<0.22	0.51	
	10/6/94	110	28	61	12	2.2	<1.0	2.8	<1.0	6.0	<1.0	<1.0	NR	<1.0	<0.43	Dichloromethane 2.1
	1/26/95	170	8.6	7.1	<1.0	<1.0	<1.0	1.4	NA	NA	NA	NA	NR	<1.0	0.41	
	3/28/95	160	17	53	1.4	1.4	<1.0	2.1	NA	NA	NA	NA	<1.0	NR	<1.0	Chloroform 0.69; Dichloromethane 4.7
	1/26/96	130	76	130	22	<1.0	<1.0	3.7	NA	NA	NA	NA	NR	3.9	<1.0	
	7/23/96	120	34	28	1.3	<1.0	<1.0	1.6	NA	NA	NA	NA	<1.0	<1.0	<1.0	

Table 2:

SUMMARY OF DETECTED
VOCs (EPA Method 8010/601) and BTEX (EPA Method 8020/602) IN GROUNDWATER SAMPLES

Calmar - City of Industry
LFR 2455.01

All concentrations 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	Benzene	Toluene	Ethylbenzene	Xylene	Freon 113	Vinyl Chloride	Trans-1,2-DCE	Other Compounds
MW-3	1/17/97	61	18	41	0.90	0.71	<0.5	1.4	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	1/17/97 (D)	61	17	55	0.86	0.71	<0.5	1.4	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	7/8/97	54	33	21	2.0	0.85	<0.5	1.4	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	7/8/97 (D)	52	33	22	2.2	0.88	<0.5	1.4	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	2/12/98	44	17	34	1.3	<0.5	<0.5	<1.0	NA	NA	NA	NA	<2.0	<0.5	<2.0	
	2/12/98 (D)	45	18	37	1.5	<0.5	<0.5	<1.0	NA	NA	NA	NA	<2.0	<0.5	<2.0	
	7/29/98	28	37	30	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	<5.0	<5.0	
	1/13/99	15	31	9.6	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
	1/13/99 (D)	14	30	9.5	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
	7/23/99	24	21	17	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
MW-4	4/16/93	12	4.5	5.4	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	4/23/93	12	4.9	6.3	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/3/93	8.9	3.6	1.9	ND	ND	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	Chloromethane 10.0
	11/30/93	10	2.7	1.3	<1.0	<1.0	<1.0	1.7	NA	NA	NA	NA	NR	<1.0	ND	
	3/28/94	16	5.8	2.7	<1.0	<1.0	<1.0	2.8	NA	NA	NA	NA	NR	<1.0	ND	
	4/23/94	12	4.9	6.3	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	6/21/94	10	3.4	3.7	<1.0	<1.0	<1.0	1.2	NA	<1.0	NA	NA	NR	<1.0	ND	
	10/7/94	12	4.4	1.9	<1.0	<1.0	<1.0	1.5	<1.0	6.8	<1.0	<1.0	NR	<1.0	<1.0	
	1/26/95	12	4.1	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	10	2.9	3.7	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	<1.0	<1.0	Chloroform 0.09; Dichloromethane 7.5
	1/25/96	2.5	88	1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/24/96	8.1	2.5	0.52	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	2.7	<0.5	<0.5	
	1/16/97	5.2	2.1	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	2.2	<0.5	<0.5	
	7/8/97	5.0	1.8	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	3.3	<0.5	<0.5	
	2/12/98	5.2	1.7	<0.5	<1.0	<0.5	<0.5	<1.0	NA	NA	NA	NA	2.6	<0.5	<2.0	
	7/29/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	<5.0	<5.0	
	1/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
	7/22/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
MW-5	4/16/93	5.0	2.8	2.4	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	4/23/93	5.9	2.2	1.0	<1.0	<1.0	<1.0	1.7	<1.0	1.6	<1.0	<1.0	NR	<1.0	<1.0	
	8/3/93	3.3	1.7	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	Chloromethane 38.0
	12/1/93	4.2	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<0.27	<1.0	
	3/28/94	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	4/23/94	5.9	2.2	1.0	<1.0	<1.0	<1.0	1.7	<1.0	1.6	<1.0	<1.0	NR	<1.0	<1.0	
	6/21/94	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NR	<1.0	<1.0	
	10/7/94	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	1/26/95	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	Dichloromethane 7.2
	1/25/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/24/96	<0.5	0.59	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	1/16/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	7/8/97	WELL INACCESSIBLE														
	2/12/98	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	NA	NA	NA	NA	<2.0	<0.5	<2.0	
	7/29/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	<5.0	<5.0	
	1/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
	7/23/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	16	<5.0	<5.0	
MW-6	8/3/93	4.8	12	2.6	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	Chloromethane 14.0
	8/10/93	11	110	7.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NR	<2.0	<2.0	
	11/30/93	5.0	250	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<0.23	
	3/28/94	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	6/22/94	6.3	55	4.5	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<0.22	<0.43	
	6/22/94 (D)	5.9	48	3.2	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<0.22	<0.43	
	10/7/94	6.7	36	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	1/27/95	3.0	220	<1.0	<1.0	<1.0	<1.0	1.4	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	3.7	47	2.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	Chloroform 0.11; Dichloromethane 5.5
	1/25/96	3.3	280	1.8	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/24/96	2.4	77	0.71	<0.5	0.61	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	1/16/97	1.9	91	0.57	<0.5	1.6	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	1/16/97 (D)	1.9	90	0.93	<0.5	1.5	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	

Table 2:

SUMMARY OF DETECTED
VOCs (EPA Method 8010/601) and BTEX (EPA Method 8020/602) IN GROUNDWATER SAMPLES

Calmar - City of Industry

LFR 2455.01

All concentrations 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	Benzene	Toluene	Ethylbenzene	Xylene	Freon 113	Vinyl Chloride	Trans-1,2-DCE	Other Compounds
MW-6	7/8/97	<3.0	370	<3.0	<3.0	4.5	<3.0	<3.0	NA	NA	NA	NA	<3.0	<3.0	<3.0	
	2/12/98	<5.0	580	<5.0	<10	<5.0	<5.0	<10	NA	NA	NA	NA	<20	<5.0	<20	
	7/29/98	<5.0	280	<5.0	<5.0	10	<5.0	<5.0	NA	NA	NA	NA	NA	<5.0	<5.0	
	1/12/99	<5.0	570	<5.0	<5.0	8.9	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
	7/22/99	<5.0	71	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
MW-7	8/3/93	3.7	16	12	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/10/93	3.9	8.3	7.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/10/93 (D)	3.1	11	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	11/30/93	4.9	11	7.7	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/28/94	6.6	9.9	6.5	<1.0	<1.0	<1.0	1.1	NA	NA	NA	NA	NR	<1.0	<1.0	
	6/22/94	5.2	7.1	7.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<0.22	<0.43	
	10/7/94	5.8	6.0	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	1/27/95	5.4	38	22	1.1	<1.0	<1.0	1.1	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	3.8	4.4	3.6	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	Chloroform 0.08; Dichloromethane 5.2
	1/25/96	2.2	39	65	4.2	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	2.3	<1.0	
	7/24/96	0.87	43	80	2.8	2.3	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	1/16/97	1.6	45	72	3.0	3.5	<0.5	<0.5	NA	NA	NA	NA	<0.5	1.0	<0.5	
	7/8/97	3.3	18	27	1.7	1.6	<0.5	<0.5	NA	NA	NA	NA	<0.5	0.62	<0.5	
	2/12/98	<3.0	170	200	9.3	13	<3.0	<5.0	NA	NA	NA	NA	<10	<3	<10	
	7/29/98	<5.0	110	210	8.0	11	<5.0	<5.0	NA	NA	NA	NA	NA	<5.0	<5.0	
	1/12/99	<5.0	83	110	8.2	7.2	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
	7/22/99	<5.0	64	320	9.7	10	<5.0	<5.0	NA	NA	NA	NA	<5.0	10	<5.0	
P-1	10/11/91	10	5.0	12	ND	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<1.0	Methylene chloride 1.0***; Freon-TF 5.0
	3/25/92	13	6.9	41	ND	ND	<1.0	2.4	<0.5	2.0	<0.5	<0.5	NR	<1.0	<1.0	
	4/16/93	18	6.0	55	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	4/16/93 (D)	16	5.7	57	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/2/93	14	7.8	49	1.6	ND	<1.0	3.2	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	12/1/93	20	7.5	69	<1.0	<1.0	<1.0	2.5	NA	NA	NA	NA	NR	<0.27	<0.22	
	3/29/94	22	11	90	2.1	<1.0	<1.0	3.0	NA	NA	NA	NA	NR	0.59	<1.0	Dichloromethane 5.2
	6/22/94	18	8.4	68	<1.0	<1.0	<1.0	1.7	NA	<1.0	NA	NA	NR	<0.22	<0.43	
	10/6/94	21	9.5	120	1.9	<1.0	<1.0	2.6	<1.0	12	<1.0	<1.0	NR	<1.0	<1.0	Dichloromethane 3.3
	1/27/95	13	3.9	30	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	1/27/95 (D)	15	4.6	36	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	13	6.1	51	1.4	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	Chloroform 0.20; Dichloromethane 3.7
	1/26/96	23	29	100	3.7	<1.0	<1.0	2.1	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/23/96	32	29	120	1.4	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	<1.0	<1.0	
	1/16-17/97 ****	WELL INACCESSIBLE														
	7/8/97	39	48	120	4.0	1.9	<0.5	1.3	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	1/13/99	21	42	64	8.1	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
P-2	5/13/91 **	20	5.7	ND	ND	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	NR	<1.0	ND	
	10/11/91	14	7.0	4.0	ND	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<1.0	Freon-TF 15.0; Chloromethane 1.0 Methylene chloride 1.0***
	3/25/92	7.4	7.5	3.9	ND	ND	<1.0	0.60	<0.5	<0.5	<0.5	<0.5	NR	<0.5	<0.5	
	4/15/93	18	140	58	8.4	12	<1.0	1.1	<1.0	1.2	<1.0	<1.0	NR	<1.0	<1.0	
	8/3/93	12	93	ND	8.3	9.4	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	Chloromethane 4.1
	11/30/93	11	210	45	8.3	11	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	ND	
	3/29/94	70	230	57	9.2	8.6	<1.0	2.4	NA	NA	NA	NA	NR	0.37	1.5	Dichloromethane 4.3; 1,1,2-TCA 0.20
	6/21/94	44	98	47	6.3	<1.0	<1.0	1.3	NA	NA	NA	NA	NR	<1.0	ND	
	6/21/94 (D)	48	91	33	4.4	<1.0	<1.0	1.4	NA	NA	NA	NA	NR	<1.0	ND	
	10/6/94	44	130	43	6.4	9.5	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	NR	0.60	<1.0	Dichloromethane 1.8; 1,1,2-TCA 0.52
	1/27/95	150	130	44	4.2	<1.0	<1.0	3.2	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	130	110	48	5.6	7.3	<1.0	3.7	NA	NA	NA	NA	NR	<0.5	0.19	Chloroform 0.18; Dichloromethane 2.6
	1/26/96	110	200	68	10	<1.0	<1.0	10	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/24/96	79	51	26	3.6	2.8	<0.5	3.4	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	1/17/97	130	100	68	11	8.2	<0.5	9.0	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	7/8/97	110	120	67	12	9.8	<0.5	4.4	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	2/12/98	110	95	39	8.7	6.6	<0.5	2.6	NA	NA	NA	NA	<2.0	<0.5	<2.0	
	7/29/98	118	79	38	13	8.0	<5.0	<5.0	NA	NA	NA	NA	NA	<5.0	<5.0	
	1/13/99	180	170	37	11	7.6	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
	7/22/99	120	100	65	12	11	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	

Table 2:

SUMMARY OF DETECTED
VOCs (EPA Method 8010/601) and BTEX (EPA Method 8020/602) IN GROUNDWATER SAMPLES

Calmar - City of Industry
LFR 2455.01

All concentrations 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	Benzene	Toluene	Ethylbenzene	Xylene	Freon 113	Vinyl Chloride	Trans-1,2-DCE	Other Compounds
P-3	5/13/91 **	5.2	2.3	ND	ND	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	NR	<1.0	ND	
	10/11/91	7.0	3.0	ND	ND	ND	ND	ND	<1.0	2.0	<1.0	<1.0	NR	<5.0	<1.0	Freon-TF 4.0; Chloroform 2.0 Methylene chloride 1.0***
	3/25/92	4.9	3.8	1.7	ND	ND	<0.5	0.7	<0.5	2.7	<0.5	<0.5	NR	<0.50	<0.50	
	4/15/93 (D)	6.7	4.5	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	4/15/93	6.5	4.3	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/2/93	4.0	3.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	Chloromethane 15.0
	12/1/93	5.7	4.3	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NR	<0.27	<0.22	
	3/28/94	8.0	4.5	1.1	<1.0	<1.0	<1.0	1.1	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/28/94 (D)	8.0	4.7	1.7	<1.0	<1.0	<1.0	1.1	NA	NA	NA	NA	NR	<1.0	ND	
	6/21/94	5.7	4.6	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	ND	
	10/7/94	6.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	1/26/95	5.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<0.1	<1.0	Dichloromethane 7.4
	1/25/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/24/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	1.4	<0.5	<0.5	
	1/16/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	7.3	<0.5	<0.5	Chloroform 0.84
	7/8/97	0.74	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	2.6	<0.5	<0.5	
	2/12/98	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	NA	NA	NA	NA	5.9	<0.5	<2.0	
	7/29/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	<5.0	<5.0	
	1/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
	7/22/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	13	<5.0	<5.0	
Equipment Blanks	11/30/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	ND	
	12/1/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NR	<0.27	<0.22	
	4/15/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	1.2	<1.0	<1.0	NR	<1.0	<1.0	
	4/16/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	4/23/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/2/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/3/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NR	<1.0	<1.0	
	8/10/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	6/21/94	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	ND	
	10/6/94	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	10/7/94	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	3/28/95	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	Dichloromethane 5.5
	1/26/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/24/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	1/16/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	1/17/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	Methylene chloride 5.3
	7/8/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	2/12/98	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	NA	NA	NA	NA	<2.0	<0.5	<2.0	
	7/29/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	<5.0	<5.0	
	1/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	
	7/22/99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	7/23/99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Trip Blanks	1/27/95	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	NA	
	7/24/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	

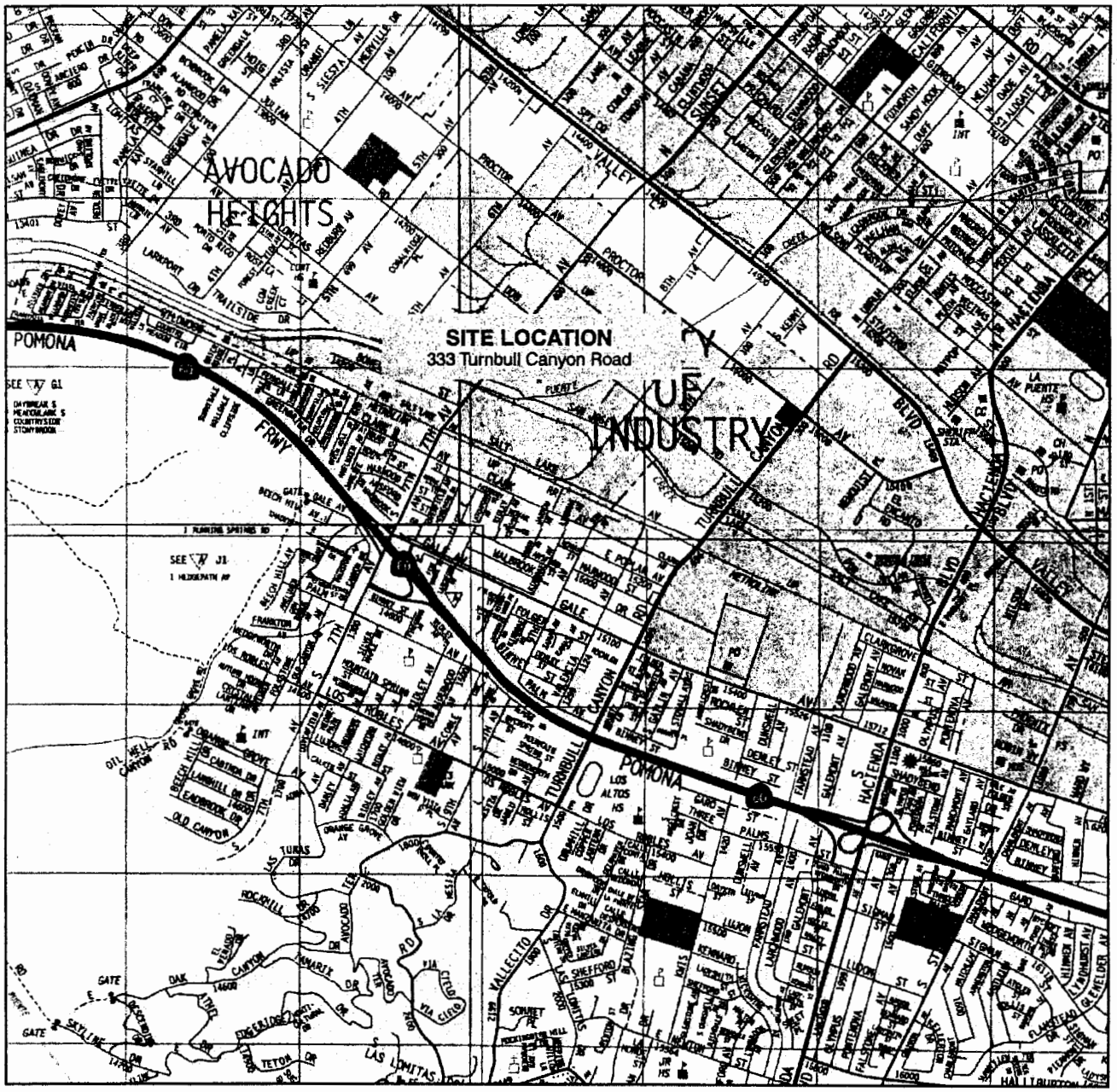
NOTES:

< = 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
NR = Not Reported
(D) = Duplicate sample

* = Report by BCL Associates, Inc. October 1988
** = Report by Camp, Dresser & McKee, Inc., May 1991
*** = 10/11/91 Methylene Chloride detected at 1.0 µg/l in blank method
**** = Well P-1 was not sampled due to flooding in area.

QA/QC: _____



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MAP SOURCE: Thomas Bros Guide®, Los Angeles County, California, pp.637, 638,677 & 678 , 1996.

0 1/4 1/2 1 mile

2455-70 _ 120199MEH/scj

Calmar

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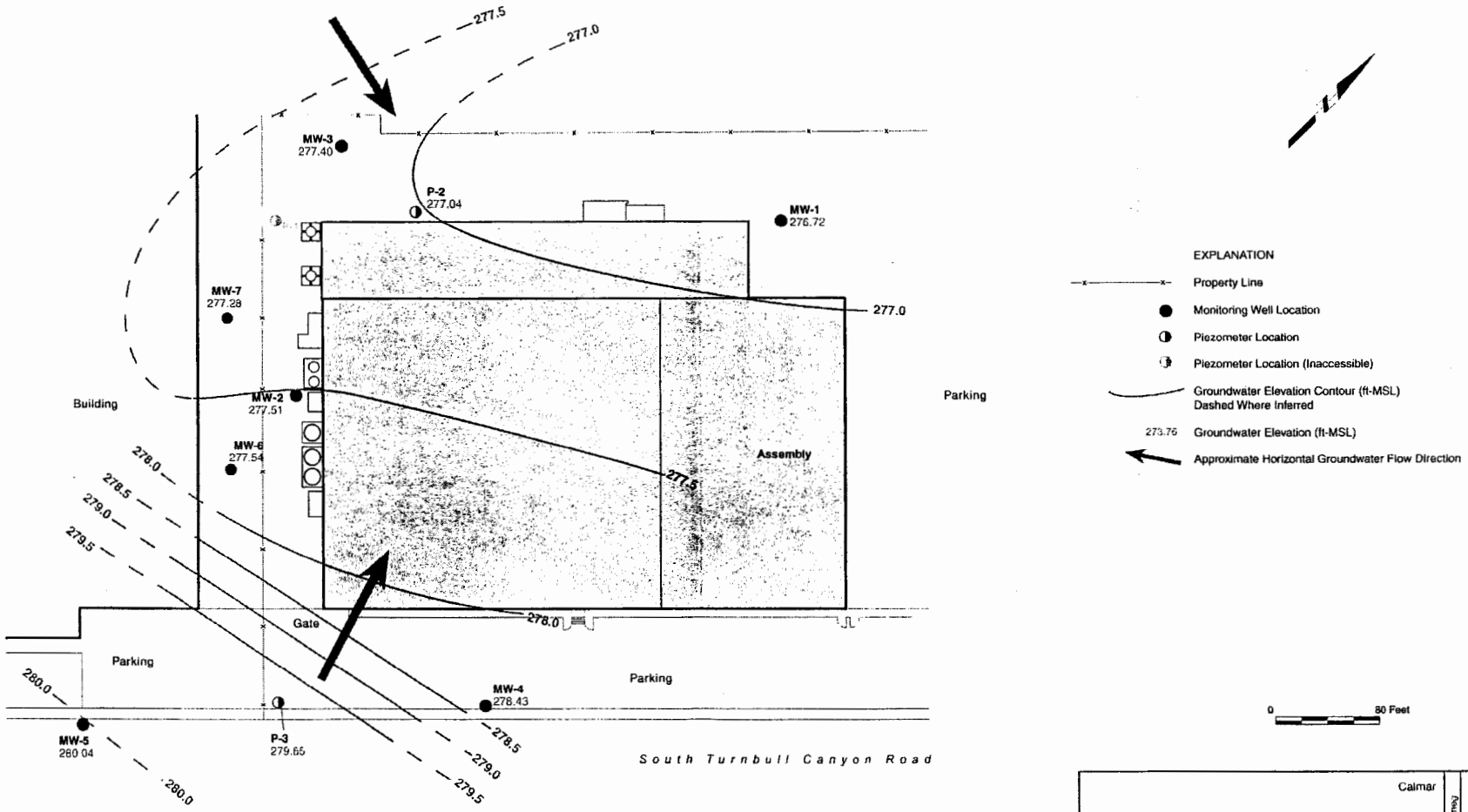
Site Vicinity

Figure 1

Project No. 2455



Calmar

Groundwater Elevations Contours
January 12, 1999

Figure 2
Project No 2455

2455-101 072999RAC/mag

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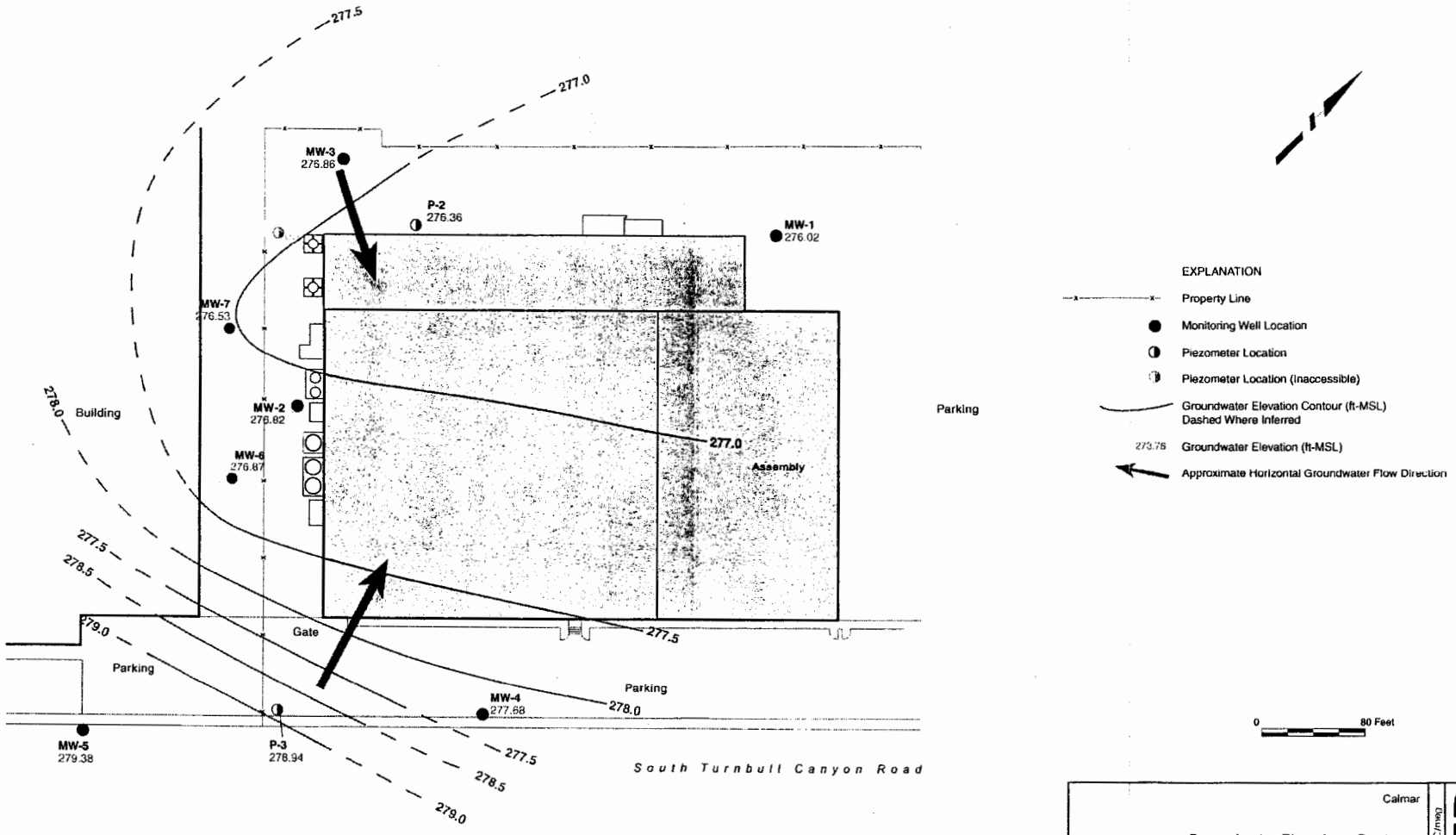

Calmar

Groundwater Elevations Contours
July 22, 1999

Figure 3
Project No. 2455

2455-102 072999RAC/meg

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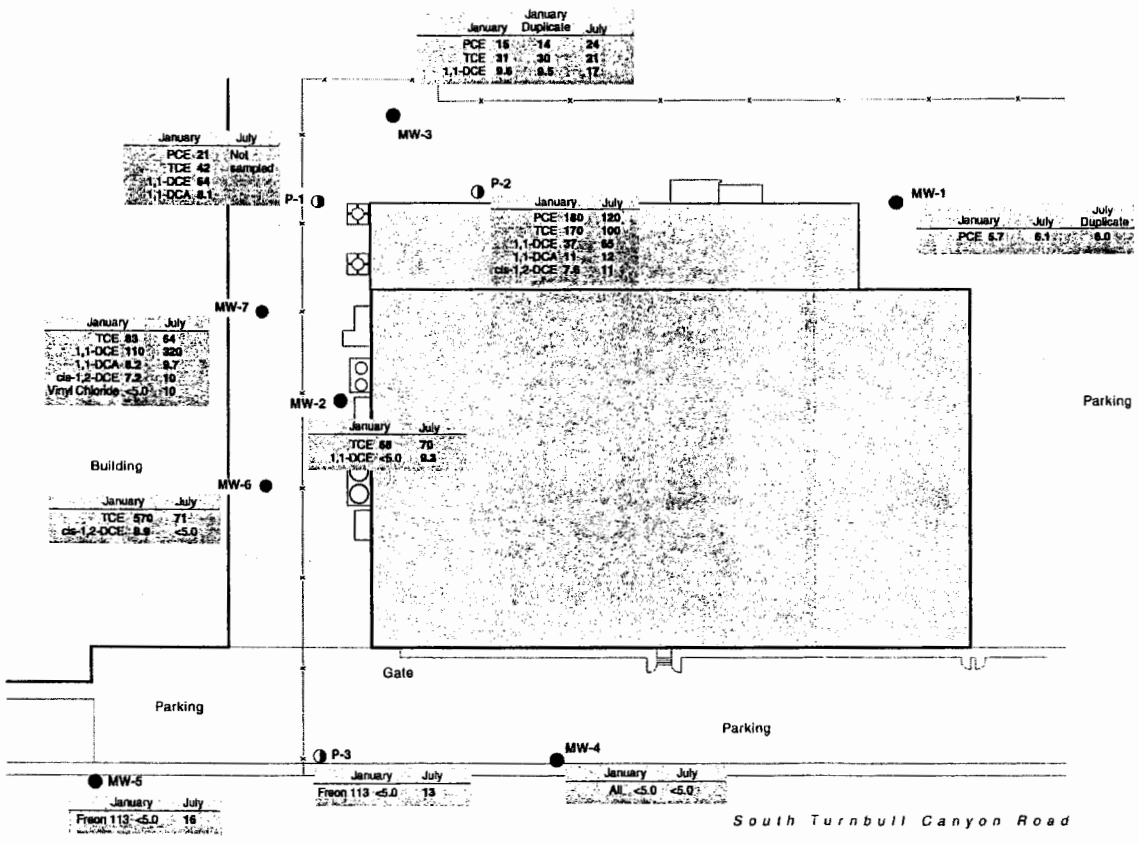

EXPLANATION

Property Line

Monitoring Well Location

Piezometer Location

MW-1 / PCE 5.7 — Groundwater analytical data showing halogenated volatile organic compounds (HVOCs) constituent and concentration in micrograms per liter (µg/L) Only detected analytes are reported herein.

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
<5.0	Not detected above laboratory detection limit indicated.

NOTES: All samples analyzed using EPA Method 8260.

0 80 Feet

Calmar

Summary of HVOCs Detected in Groundwater Samples January and July 1999

Figure 4

Project No. 2455

LFR LEVINE • FRICKE

APPENDIX A

LFR Field Protocols

LFR FIELD PROTOCOLS

Groundwater 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 groundwater 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 groundwater temperature, specific conductivity, turbidity, and pH were monitored during the development process.

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

Purged groundwater was collected in Department of Transportation-approved drums for storage on site, or stored in an on-site PolyTank.

Groundwater samples were collected from all wells using a Teflon disposable bailer suspended from a clean (new) length of rope. Groundwater 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 Groundwater Elevation

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

Prior to collecting groundwater samples, an electronic water-level meter was used to measure the depth to groundwater to the nearest 0.01 foot in each well. Groundwater elevations were calculated and used to construct a groundwater elevation contour map from which the direction of groundwater flow and gradient could be evaluated.

APPENDIX B

Laboratory Certificates and Chain-of-Custody Documentation

PHONE (714) 751-3210 FAX (714) 751-6414

2960 AIRWAY AVENUE, SUITE B-101 COSTA MESA, CALIFORNIA 92626

AAI RFS #: 9901502

January 22, 1999

Levine Fricke
1920 Main Street, Suite 750
Irvine, CA 92714

Project Name: Calmar
Project Number: 2455

Attention: Martin Hammann

Apollo Analytics Inc., has received the following sample(s):

Date Received	Quantity	Matrix
January 13, 1999	6	Water

The sample(s) received were analyzed for volatile organics by GC/MS using EPA method 8260B. Freon 113 was not detected in the samples, the detection limit for this compound is 5.0 ug/L.

The results of these analyses and the quality control are enclosed. If you have any questions please do not hesitate to call (714) 751-3210.

Leon Levan
Laboratory Manager

ANALYTICAL RESULTS

AAI RFS #: 9901502

Client Name: Levine Fricke
Project Name: Calmar
Project #: 2455
Matrix: Water

Date(s) Sampled: 1/12/99
Date(s) Analyzed: 1/22/99
Analytical Method: EPA 8260B
Chemist: SN

CAS #	Compound	Units	P3- 9901502-001	EQB 9901502-002	MW5 9901502-003	MW4 9901502-004	MW7 9901502-005	M B 990121
71-55-6	1,1,1-Trichloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
79-00-5	1,1-2-Trichloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-35-3	1,1-Dichloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	8.2	ND<5.0
75-35-4	1,1-Dichloroethene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	110	ND<5.0
106-93-4	1,2-Dibromoethane (EDB)	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
95-50-1	1,2-Dichlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
107-06-2	1,2-Dichloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
78-87-5	1,2-Dichloropropane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
541-73-1	1,3-Dichlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
106-46-7	1,4-Dichlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
110-75-8	2-Chloroethylvinylether	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-25-2	Bromoform	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
74-83-9	Bromomethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
56-23-5	Carbon Tetrachloride	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
108-90-7	Chlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-00-3	Chloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
67-66-3	Chloroform	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
74-87-3	Chloromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
124-48-1	Dibromochloromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-27-4	Dichlorobromomethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-71-8	Dichlorodifluoromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-09-2	Methylene Chloride	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
127-18-4	Tetrachloroethene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
79-01-6	Trichloroethene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	83	ND<5.0
75-69-4	Trichlorofluoromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-01-04	Vinyl Chloride	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
156-59-2	cis-1,2-Dichloroethene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	7.2	ND<5.0
10061-01-5	cis-1,3-Dichloropropene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
156-60-5	trans-1,2-Dichloroethene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
10061-02-6	trans-1,3-Dichloropropene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0

QC LIMITS (% Recovery)	SURROGATE (% Recovery)						
60%-135%	Dibromofluoromethane (SS1)	114	36*	128	114	109	118
60%-135%	Toluene-d8 (SS2)	95	95	96	99	97	86
60%-135%	4-Bromofluorobenzene (SS3)	119	114	84	119	82	125

ND- Not detected

*Value outside QC limits due to matrix interference.

E-Linear extrapolation

ANALYTICAL RESULTS

		AAI RFS #:	9901502
Client Name:	Levine Fricke	Date(s) Sampled:	1/12/99
Project Name:	Calmar	Date(s) Analyzed:	1/22/99
Project #:	2455	Analytical Method:	EPA 8260B
Matrix:	Water	Chemist:	SN

CAS #	Compound	Units	MW6 9901502-006	M B 990121
71-55-6	1,1,1-Trichloroethane	ug/L	ND<5.0	ND<5.0
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	ND<5.0	ND<5.0
79-00-5	1,1-2-Trichloroethane	ug/L	ND<5.0	ND<5.0
75-35-3	1,1-Dichloroethane	ug/L	ND<5.0	ND<5.0
75-35-4	1,1-Dichloroethene	ug/L	ND<5.0	ND<5.0
106-93-4	1,2-Dibromoethane (EDB)	ug/L	ND<5.0	ND<5.0
95-50-1	1,2-Dichlorobenzene	ug/L	ND<5.0	ND<5.0
107-06-2	1,2-Dichloroethane	ug/L	ND<5.0	ND<5.0
78-87-5	1,2-Dichloropropane	ug/L	ND<5.0	ND<5.0
541-73-1	1,3-Dichlorobenzene	ug/L	ND<5.0	ND<5.0
106-46-7	1,4-Dichlorobenzene	ug/L	ND<5.0	ND<5.0
110-75-8	2-Chloroethylvinylether	ug/L	ND<5.0	ND<5.0
75-25-2	Bromoform	ug/L	ND<5.0	ND<5.0
74-83-9	Bromomethane	ug/L	ND<5.0	ND<5.0
56-23-5	Carbon Tetrachloride	ug/L	ND<5.0	ND<5.0
108-90-7	Chlorobenzene	ug/L	ND<5.0	ND<5.
75-00-3	Chloroethane	ug/L	ND<5.0	ND<5.0
67-66-3	Chloroform	ug/L	ND<5.0	ND<5.0
74-87-3	Chloromethane	ug/L	ND<5.0	ND<5.0
124-48-1	Dibromochloromethane	ug/L	ND<5.0	ND<5.0
75-27-4	Dichlorobromomethane	ug/L	ND<5.0	ND<5.0
75-71-8	Dichlorodifluoromethane	ug/L	ND<5.0	ND<5.0
75-09-2	Methylene Chloride	ug/L	ND<5.0	ND<5.0
127-18-4	Tetrachloroethene	ug/L	ND<5.0	ND<5.0
79-01-6	Trichloroethene	ug/L	570	ND<5.0
75-69-4	Trichlorofluoromethane	ug/L	ND<5.0	ND<5.0
75-01-04	Vinyl Chloride	ug/L	ND<5.0	ND<5.0
156-59-2	cis-1,2-Dichloroethene	ug/L	8.9	ND<5.0
10061-01-5	cis-1,3-Dichloropropene	ug/L	ND<5.0	ND<5.0
156-60-5	trans-1,2-Dichloroethene	ug/L	ND<5.0	ND<5.0
10061-02-6	trans-1,3-Dichloropropene	ug/L	ND<5.0	ND<5.0
QC LIMITS (% Recovery)	SURROGATE (% Recovery)			
60%-135%	Dibromofluoromethane (SS1)		126	118
60%-135%	Toluene-d8 (SS2)		93	86
60%-135%	4-Bromofluorobenzene (SS3)		87	125

ND- Not detected

*Value outside QC limits due to matrix interference.

E-Linear extrapolation

QUALITY CONTROL

AAI RFS #: 9901502

Client Name: Levine Fricke
Project Name: Calmar
Project #: 2455
Matrix: Water

Date(s) Sampled: 1/12/99
Date(s) Analyzed: 1/22/99
Chemist(s): SN

Analytical Method	Target Compound	MS/MSD AAI ID Number	MS (% Rec)	MSD (% Rec)	RPD (%)	QC Limits % Rec	QC Limits RPD
EPA 8260B	1,1-Dichloroethene	9901503-003	74	78	5	70-135	30
EPA 8260B	Benzene	9901503-003	100	108	8	70-135	30
EPA 8260B	Trichloroethene	9901503-003	90	76	17	70-135	30
EPA 8260B	Toluene	9901503-003	101	105	4	70-135	30
EPA 8260B	Chlorobenzene	9901503-003	98	105	7	70-135	30

RPD- relative percent difference
MS-Matrix Spike
MSD-Matrix Spike Duplicate
% Rec- Percent Recovery

CHAIN OF CUSTODY - ANALYSES REQUEST FORM

Project No.: 2455	Section No.:
Project Name: Calmar	
Sampler (Signature): KoMcRae	

Date: 01/12/99

Serial No.: N° 02-1302

Item No.	SAMPLE ID: ID Field 1	ID Field 2	~~ID Field 3~~ LAB ID#	ID Field 4	ID Field 5	ID Field 6	Sample Type	No. of Containers	Lab Sample No.	Date Sampled	Time	ANALYSES: 8010						Turnaround Time: Standard	Expedited:	HOLD	Samplers: REMARKS
1	P3	011299	-001				GW	3		0/12/99	11:30am	X									
2	EQB	011299	-002				DI	3		0/12/99	10:20am	X									
3	MW5	011299	-003				GW	3		0/12/99	12:15pm	X									
4	MW4	011299	-004				GW	3		0/12/99	12:55pm	X									
5	MW7	011299	-005				GW	3		01/12/99	2:30pm	X									
6	MW6	011299	-006				GW	3		01/12/99	3:10pM	X									Results
7																					to Martin
8																					Hamann
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished By: (Signature) KoMcRae (at resource office Refrigerator)	Date: 01/12/99	Time: 5:00pM	Received By: (Signature) Leticia Zelaya	Date: 01/13/99	Time: 320pm
Relinquished By: (Signature) KoMcRae	Date: 01/12/99	Time: 3:20pm	Received By: (Signature)	Date:	Time:
Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)	Date:	Time:
Method of Shipment:			Lab Comments:		

Sample Collector:

Levine-Fricke-Recon
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS
1920 Main Street, Suite 750
Irvine, California 92614-7211
(949) 955-1390 FAX (949) 955-1390
www.LFR.com

Analytical Laboratory: Apollo Analytics, Costa Mesa

LAB REPORT No. 9901502

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PHONE (714) 751-3210 FAX (714) 751-6414

2960 AIRWAY AVENUE, SUITE B-101 COSTA MESA, CALIFORNIA 92626

AAI RFS #: 9901503

January 25, 1999

Levine Fricke
1920 Main Street, Suite 750
Irvine, CA 92714

Project Name: Calmar
Project Number: 2455

Attention: Martin Hammann

Apollo Analytics Inc., has received the following sample(s):

Date Received	Quantity	Matrix
January 13, 1999	6	Water

The sample(s) received were analyzed for volatile organics by GC/MS using EPA method 8260B. Freon 113 was not detected in the samples, the detection limit for this compound is 5.0 ug/L.

The results of these analyses and the quality control are enclosed. If you have any questions please do not hesitate to call (714) 751-3210.

Leon Levan
Laboratory Manager

ANALYTICAL RESULTS

AAI RFS #: 9901503

Client Name: Levine Fricke
Project Name: Calmar
Project #: 2455
Matrix: Water

Date(s) Sampled: 1/13/99
Date(s) Analyzed: 1/22-1/25/99
Analytical Method: EPA 8260B
Chemist: SN

CAS #	Compound	Units	MW1 9901503-001	P1 9901503-002	MW2 9901503-003	P2 9901503-004	MW3 9901503-005	M B 990121
71-55-6	1,1,1-Trichloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
79-00-5	1,1-2-Trichloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-35-3	1,1-Dichloroethane	ug/L	ND<5.0	8.1	ND<5.0	11	ND<5.0	ND<5.0
75-35-4	1,1-Dichloroethene	ug/L	ND<5.0	64	ND<5.0	37	9.6	ND<5.0
106-93-4	1,2-Dibromoethane (EDB)	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
95-50-1	1,2-Dichlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
107-06-2	1,2-Dichloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
78-87-5	1,2-Dichloropropane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
541-73-1	1,3-Dichlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
106-46-7	1,4-Dichlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
110-75-8	2-Chloroethylvinylether	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-25-2	Bromoform	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
74-83-9	Bromomethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
56-23-5	Carbon Tetrachloride	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
108-90-7	Chlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-00-3	Chloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
67-66-3	Chloroform	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
74-87-3	Chloromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
124-48-1	Dibromochloromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-27-4	Dichlorobromomethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-71-8	Dichlorodifluoromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-09-2	Methylene Chloride	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
127-18-4	Tetrachloroethene	ug/L	5.7	21	ND<5.0	180	15	ND<5.0
79-01-6	Trichloroethene	ug/L	ND<5.0	42	68	170	31	ND<5.0
75-69-4	Trichlorofluoromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-01-04	Vinyl Chloride	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
156-59-2	cis-1,2-Dichloroethene	ug/L	ND<5.0	ND<5.0	ND<5.0	7.6	ND<5.0	ND<5.0
10061-01-5	cis-1,3-Dichloropropene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
156-60-5	trans-1,2-Dichloroethene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
10061-02-6	trans-1,3-Dichloropropene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0

QC LIMITS (% Recovery)	SURROGATE (% Recovery)						
60%-135%	Dibromofluoromethane (SS1)	124	108	126	111	53*	118
60%-135%	Toluene-d8 (SS2)	98	103	98	90	95	86
60%-135%	4-Bromofluorobenzene (SS3)	115	81	81	115	80	125

ND- Not detected

*Value outside QC limits due to matrix interference.

E-Linear extrapolation

ANALYTICAL RESULTS

AAI RFS #: 9901503

Client Name: Levine Fricke
Project Name: Calmar
Project #: 2455
Matrix: Water

Date(s) Sampled: 1/13/99
Date(s) Analyzed: 1/22-1/25/99
Analytical Method: EPA 8260B
Chemist: SN

CAS #	Compound	Units	DUP 9901503-006	M B 990121
71-55-6	1,1,1-Trichloroethane	ug/L	ND<5.0	ND<5.0
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	ND<5.0	ND<5.0
79-00-5	1,1-2-Trichloroethane	ug/L	ND<5.0	ND<5.0
75-35-3	1,1-Dichloroethane	ug/L	ND<5.0	ND<5.0
75-35-4	1,1-Dichloroethene	ug/L	9.5	ND<5.0
106-93-4	1,2-Dibromoethane (EDB)	ug/L	ND<5.0	ND<5.0
95-50-1	1,2-Dichlorobenzene	ug/L	ND<5.0	ND<5.0
107-06-2	1,2-Dichloroethane	ug/L	ND<5.0	ND<5.0
78-87-5	1,2-Dichloropropane	ug/L	ND<5.0	ND<5.0
541-73-1	1,3-Dichlorobenzene	ug/L	ND<5.0	ND<5.0
106-46-7	1,4-Dichlorobenzene	ug/L	ND<5.0	ND<5.0
110-75-8	2-Chloroethylvinylether	ug/L	ND<5.0	ND<5.0
75-25-2	Bromoform	ug/L	ND<5.0	ND<5.0
74-83-9	Bromomethane	ug/L	ND<5.0	ND<5.0
56-23-5	Carbon Tetrachloride	ug/L	ND<5.0	ND<5.0
108-90-7	Chlorobenzene	ug/L	ND<5.0	ND<5.0
75-00-3	Chloroethane	ug/L	ND<5.0	ND<5.0
67-66-3	Chloroform	ug/L	ND<5.0	ND<5.0
74-87-3	Chloromethane	ug/L	ND<5.0	ND<5.0
124-48-1	Dibromochloromethane	ug/L	ND<5.0	ND<5.0
75-27-4	Dichlorobromomethane	ug/L	ND<5.0	ND<5.0
75-71-8	Dichlorodifluoromethane	ug/L	ND<5.0	ND<5.0
75-09-2	Methylene Chloride	ug/L	ND<5.0	ND<5.0
127-18-4	Tetrachloroethene	ug/L	14	ND<5.0
79-01-6	Trichloroethene	ug/L	30	ND<5.0
75-69-4	Trichlorofluoromethane	ug/L	ND<5.0	ND<5.0
75-01-04	Vinyl Chloride	ug/L	ND<5.0	ND<5.0
156-59-2	cis-1,2-Dichloroethene	ug/L	ND<5.0	ND<5.0
10061-01-5	cis-1,3-Dichloropropene	ug/L	ND<5.0	ND<5.0
156-60-5	trans-1,2-Dichloroethene	ug/L	ND<5.0	ND<5.0
10061-02-6	trans-1,3-Dichloropropene	ug/L	ND<5.0	ND<5.0

QC LIMITS (% Recovery)	SURROGATE (% Recovery)		
60%-135%	Dibromofluoromethane (SS1)	124	118
60%-135%	Toluene-d8 (SS2)	91	86
60%-135%	4-Bromofluorobenzene (SS3)	77	125

ND- Not detected

*Value outside QC limits due to matrix interference.

E-Linear extrapolation

QUALITY CONTROL

AAI RFS #: 9901503

Client Name: Levine Fricke
Project Name: Calmar
Project #: 2455
Matrix: Water

Date(s) Sampled: 1/13/99
Date(s) Analyzed: 1/22/99
Chemist(s): SN

Analytical Method	Target Compound	MS/MSD AAI ID Number	MS (% Rec)	MSD (% Rec)	RPD (%)	QC Limits % Rec	QC Limits RPD
EPA 8260B	1,1-Dichloroethene	9901503-003	74	78	5	70-135	30
EPA 8260B	Benzene	9901503-003	100	108	8	70-135	30
EPA 8260B	Trichloroethene	9901503-003	90	76	17	70-135	30
EPA 8260B	Toluene	9901503-003	101	105	4	70-135	30
EPA 8260B	Chlorobenzene	9901503-003	98	105	7	70-135	30

RPD- relative percent difference
MS-Matrix Spike
MSD-Matrix Spike Duplicate
% Rec- Percent Recovery

CHAIN OF CUSTODY - ANALYSES REQUEST FORM

Project No.: 2455	Section No.:	Date: 01/13/99	Serial No.: N° 02-1303
Project Name: Calmar			
Sampler (Signature): K McRae			

Item No.	SAMPLE ID: ID Field 1	ID Field 2	~~ID Field 3~~ LAB ID#	ID Field 4	ID Field 5	ID Field 6	Sample Type	No. of Containers	Lab Sample No.	Date Sampled	Time	8010						Standard	Expedited:	HOLD	REMARKS
1	MW1	011399	-001				GW	3		01/13/99	9:45am	X									
2	P1	011399	-002				GW	3		01/13/99	10:25am	X									
3	MW2	011399	-003				GW	3		01/13/99	11:05am	X									
4	P2	011399	-004				GW	3		01/13/99	12:20pm	X									
5	MW3	011399	-005				GW	3		01/13/99	12:45pm	X									Results to
6	DUP	011399	-006				GW	3		01/13/99	on file	X									Martin Hamann
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Turnaround Time: Standard / Expedited: / HOLD

Samplers:

Relinquished By: (Signature) K McRae	Date: 01/13/99	Time: 3:20pm	Received By: (Signature) Leticia Zelaya	Date: 01/13/99	Time: 3:20pm
Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)	Date:	Time:
Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)	Date:	Time:
Method of Shipment:			Lab Comments:		

Sample Collector:

Levine-Fricke-Recon
ENGINEERS HYDROGEOLOGISTS & APPLIED SCIENTISTS
1920 Main Street, Suite 750
Irvine, California 92614-7211
(949) 955-1390 FAX (949) 955-1390
www.LFR.com

Analytical Laboratory:

LAB REPORT No. 9901503

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FORM NO. 98/COC/DFF

PHONE (714) 751-3210 FAX (714) 751-6414
2960 AIRWAY AVENUE, SUITE B-101 COSTA MESA, CALIFORNIA 92626

AAI RFS #: 9920805
(Revised)

August 24, 1999

LFR-Levine Fricke
1920 Main Street, Suite 750
Irvine, CA 92714

Project Name: Calmar
Project Number: 2455

Attention: Martin Hammann

Apollo Analytics Inc., has received the following sample(s):

Date Received	Quantity	Matrix
July 23, 1999	12	Water

The sample(s) received were analyzed for volatile organics by GC/MS using EPA method 8260B.

The results of these analyses and the quality control are enclosed. If you have any questions please do not hesitate to call (714) 751-3210.

Leon Levan
Laboratory Manager

ANALYTICAL RESULTS

AAI RFS #: 9920805

Client Name: LFR-Levine Fricke
Project Name: Calmar
Project #: 2455
Matrix: Water

Date(s) Sampled: 7/22/99
Date(s) Analyzed: 7/29-7/30/99
Analytical Method: EPA 8260B
Chemist: SN

CAS #	Compound	Units	MW7 072299 9920805 -001	MW6 072299 9920805 -002	MW4 072299 9920805 -003	P3 072299 9920805 -004	MW1 072299 9920805-006	M B 990729
71-55-6	1,1,1-Trichloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
79-00-5	1,1-2-Trichloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-35-3	1,1-Dichloroethane	ug/L	9.7	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-35-4	1,1-Dichloroethene	ug/L	320	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
106-93-4	1,2-Dibromoethane (EDB)	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
95-50-1	1,2-Dichlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
107-06-2	1,2-Dichloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
78-87-5	1,2-Dichloropropane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
541-73-1	1,3-Dichlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
106-46-7	1,4-Dichlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
110-75-8	2-Chloroethylvinylether	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-25-2	Bromoform	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
74-83-9	Bromomethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
56-23-5	Carbon Tetrachloride	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
108-90-7	Chlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-00-3	Chloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
67-66-3	Chloroform	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
74-87-3	Chloromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
124-48-1	Dibromochloromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-27-4	Dichlorobromomethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-71-8	Dichlorodifluoromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-09-2	Methylene Chloride	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
127-18-4	Tetrachloroethene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	6.1	ND<5.0
79-01-6	Trichloroethene	ug/L	64	71	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-69-4	Trichlorofluoromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-01-04	Vinyl Chloride	ug/L	10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
156-59-2	cis-1,2-Dichloroethene	ug/L	10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
10061-01-5	cis-1,3-Dichloropropene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
156-60-5	trans-1,2-Dichloroethene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
10061-02-6	trans-1,3-Dichloropropene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
76-13-1	Freon 113	ug/L	ND<5.0	ND<5.0	ND<5.0	13	ND<5.0	ND<5.0

QC LIMITS (% Recovery)	SURROGATE (% Recovery)						
69%-135%	Dibromofluoromethane (SS1)	106	108	114	119	115	106
63%-154%	Toluene-d8 (SS2)	94	97	92	91	88	93
70%-135%	4-Bromofluorobenzene (SS3)	102	101	104	105	112	96

ND- Not detected
E-Linear extrapolation

*Value outside QC limits due to matrix interference.

Approved by: L3 Date: 8/2d/99

ANALYTICAL RESULTS

AAI RFS #: 9920805

Client Name: LFR-Levine Fricke
Project Name: Calmar
Project #: 2455
Matrix: Water

Date(s) Sampled: 7/22/99
Date(s) Analyzed: 7/29-7/30/99
Analytical Method: EPA 8260B
Chemist: SN

CAS #	Compound	Units	MW10 072299 9920805 -007	P2 072299 9920805 -008	MW3 072399 9920805 -009	MW2 072399 9920805 -010	MW5 072399 9920805-011	M B 990729
71-55-6	1,1,1-Trichloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
79-00-5	1,1-2-Trichloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-35-3	1,1-Dichloroethane	ug/L	ND<5.0	12	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-35-4	1,1-Dichloroethene	ug/L	ND<5.0	65	17	9.3	ND<5.0	ND<5.0
106-93-4	1,2-Dibromoethane (EDB)	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
95-50-1	1,2-Dichlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
107-06-2	1,2-Dichloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
78-87-5	1,2-Dichloropropane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
541-73-1	1,3-Dichlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
106-46-7	1,4-Dichlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
110-75-8	2-Chloroethylvinylether	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-25-2	Bromoform	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
74-83-9	Bromomethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
56-23-5	Carbon Tetrachloride	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
108-90-7	Chlorobenzene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-00-3	Chloroethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
67-66-3	Chloroform	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
74-87-3	Chloromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
124-48-1	Dibromochloromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-27-4	Dichlorobromomethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-71-8	Dichlorodifluoromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-09-2	Methylene Chloride	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
127-18-4	Tetrachloroethene	ug/L	6.0	120	24	ND<5.0	ND<5.0	ND<5.0
79-01-6	Trichloroethene	ug/L	ND<5.0	100	21	70	ND<5.0	ND<5.0
75-69-4	Trichlorofluoromethane	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
75-01-04	Vinyl Chloride	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
156-59-2	cis-1,2-Dichloroethene	ug/L	ND<5.0	11	ND<5.0	ND<5.0	ND<5.0	ND<5.0
10061-01-5	cis-1,3-Dichloropropene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
156-60-5	trans-1,2-Dichloroethene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
10061-02-6	trans-1,3-Dichloropropene	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
76-13-1	Freon 113	ug/L	ND<5.0	ND<5.0	ND<5.0	ND<5.0	16	ND<5.0
QC LIMITS (% Recovery)	SURROGATE (% Recovery)							
69%-135%	Dibromofluoromethane (SS1)		121	121	122	118	121	106
63%-154%	Toluene-d8 (SS2)		96	88	96	92	97	93
70%-135%	4-Bromofluorobenzene (SS3)		94	109	107	102	105	96

ND- Not detected
E-Linear extrapolation

*Value outside QC limits due to matrix interference.

Approved by: LJ Date: 8/24/99

QUALITY CONTROL

AAI RFS #: 9920805

Client Name: LFR-Levine Fricke
Project Name: Calmar
Project #: 2455
Matrix: Water

Date(s) Sampled: 7/22/99
Date(s) Analyzed: 7/30/99
Chemist(s): SN

Analytical Method	Target Compound	MS/MSD AAI ID Number	MS (% Rec)	MSD (% Rec)	RPD (%)	QC Limits % Rec	QC Limits RPD
EPA 8260B	1,1-Dichloroethene	9920901-024	110	135	20	40-144	30
EPA 8260B	Benzene	9920901-024	125	115	8	51-136	30
EPA 8260B	Trichloroethene	9920901-024	133	128	4	49-133	30
EPA 8260B	Toluene	9920901-024	125	112	11	37-149	30
EPA 8260B	Chlorobenzene	9920901-024	65	80	21	43-142	30

RPD- relative percent difference
MS-Matrix Spike
MSD-Matrix Spike Duplicate
% Rec- Percent Recovery

Approved by: L3 Date: 8/24/99

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2455	Field Logbook No.:	Date:	Serial No.: № N- 3475
Project Name: Calmar	Project Location: City of Industry		
Sampler (Signature): [signature]			Samplers: [signature]

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624	8010				HOLD	RUSH	REMARKS
MW7072299	7/22/99	1030	9920805-001	3	Liq			X						
MW6072299	↓	1115	9920805-002	↓	↓			X						
MW4072299	↓	1330	9920805-003	↓	↓			X						Results to
P3072299	↓	1340	9920805-004	↓	↓			X						Martin
EB072299	↓	1570	9920805-005	↓	↓							X		Hamann
MW1072299	↓	1555	9920805-006	↓	↓			X						
MW10072299	↓	1600	9920805-007	↓	↓			X						*Duplicate of MW1
P2072299	↓	1640	9920805-008	↓	↓			X						
MW3072399	7/23/99	0930	9920805-009	↓	↓			X						
MW2072399	↓	0940	9920805-010	↓	↓			X						
MW5072399	↓	1050	9920805-011	↓	↓			X						
EB072399	↓	1120	9920805-012	↓	↓							X		

RELINQUISHED BY: (Signature) [signature]	DATE 7/23/99	TIME 1325	RECEIVED BY: (Signature) [signature]	DATE 7/23/99	TIME 1325
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: Apollo

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