Phone: (925) 283-6000

Fax: (925) 283-6121

July 28, 2000

Mr. Barney Chan Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Subject:

Quarterly Groundwater Monitoring and Sampling Report

Second Quarter 2000

807 75<sup>th</sup> Avenue Oakland, CA 95621 AEI Project No. 3190

Dear Mr. Chan:

Enclosed is the Quarterly Groundwater Monitoring and Sampling Report for the second quarter of the year 2000. Peter McIntyre will be managing the groundwater sampling for this site, since I am leaving AEI. Please direct any questions you may have to him. It's been a pleasure doing business with you.

Sincerely,

Carrie E. Locke

Project Engineer

8/1/00 Spoken/P. Mc Intyre, requested copy of over-exc report
+ sampling from casing . Furture report should have
Contemporations / recommendation's. He promodreport
by a look + will-splat casing on next numerical

weed to add 7.0. 2 ORP during QM.

00 10F 31 BW #: 03

Corporate Headquarters:

July 28, 2000

# GROUNDWATER MONITORING AND SAMPLING REPORT

807 75<sup>TH</sup> Avenue Oakland, California

77/2000

Project No. 3190

Prepared For

Omega Termite Control 807 75<sup>th</sup> Avenue Oakland, CA 95621

Prepared By

AEI Consultants
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549
(925) 283-6000



Phone: (925) 283-6000

Fax: (925) 283-6121

Mr. Allan Kanady Omega Termite Control 807 75<sup>th</sup> Avenue Oakland, CA 95621

RE: Quarterly Groundwater Monitoring and Sampling Report

Second Quarter 2000 807 75<sup>th</sup> Avenue Oakland, California Project No. 3190

Dear Mr. Kanady:

AEI Consultants (AEI) has prepared this report to document the results of the fourth episode of groundwater sampling at the above referenced site (Figure 1: Site Location Map). This groundwater investigation has been performed in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA). The purpose of this activity is to monitor groundwater quality in the vicinity of the previous locations of the underground storage tanks at the site. This report presents the findings of the Fourth Episode of groundwater monitoring and sampling conducted on May 26, 2000.

## Site Description and Background

The property is located on the northern corner of Snell Street and 75<sup>th</sup> Avenue in the City of Oakland. The site currently supports the operation of Omega Termite Control (Figure 1: Site Location Map).

On September 15, 1996, three gasoline underground storage tanks (USTs) were removed from the property by AEI. The tanks consisted of one 500-gallon, one 1,000-gallon and one 8,000-gallon tank. The former locations of the USTs are shown in Figure 2.

Soil samples were collected from beneath the 500-gallon and 1,000-gallon gasoline tanks and from the three sidewalls of the 8,000-gallon tank excavation. Concentrations of total petroleum hydrocarbons (TPH) as gasoline were present in the soil beneath the 500-gallon UST at concentrations of 4,300 mg/kg. Minor concentrations (41 mg/kg) of TPH as gasoline were present beneath the 1,000-gallon tank. The three sidewall samples collected from the 8,000-gallon tank excavation indicated concentrations of TPH as gasoline above 100 mg/kg present in the western and northwestern samples.

AEI issued a workplan, dated January 10, 1997, to the Alameda County Health Care Services Agency (ACHCSA). The workplan was designed to define the extent and magnitude of petroleum hydrocarbon contamination in the vicinity of the former tanks. Six soil borings were advanced on January 31, 1997. This investigation indicated groundwater was impacted with up to 27,000  $\mu$ g/L of TPH as gasoline and 5,000  $\mu$ g/L of benzene. Significant concentrations of TPH as gasoline were also detected in the soil up to ten feet bgs from the excavation (Ref. # 2).

In response to a request by the ACHCSA for further investigation at the site, AEI submitted a workplan to the ACHCSA on May 21, 1999, for the installation and subsequent sampling of four groundwater monitoring wells at the site (Ref. # 3). This workplan was approved by Barney Chan of the ACHCSA and, in June, 1999, the four wells were installed (Ref. # 4).

The analytical results of prior groundwater sampling episodes are included in Table 2. This report describes the results of the subsequent groundwater monitoring event which took place on May 26, 2000.

## **Summary of Activities**

AEI measured the depth to groundwater and collected water samples from the four wells (MW-1 through MW-4) on May 26, 2000. The well locations are shown in Figure 2. The depth from the top of the well casings was measured prior to sampling with an electric water level indicator. The wells were purged and sampled using clean disposable Teflon bailers.

Temperature, pH, and conductivity were measured during the purging of the wells. AEI removed at least 3 well volumes. Once the temperature, pH, and conductivity stabilized, a water sample was collected.

Water was poured from the bailers into 40 ml VOA vials and 500 ml plastic bottles and capped so that there was no head space or visible air bubbles within the sample containers. Samples were shipped on ice under proper chain of custody protocol to McCampbell Analytical, Inc. of Pacheco, California (State Certification #1644).

Groundwater samples were submitted for chemical analysis for Total Petroleum Hydrocarbons (TPH) as gasoline (EPA Method 5030/8015), methyl tertiary butyl ether (MTBE) (EPA Method 8020/602), benzene, toluene, ethylbenzene, and xylenes (BTEX) (EPA Method 8020/602) and dissolved lead.

### Field Results

No sheen or free product was encountered during monitoring activities. Hydrocarbon odors were detected in wells MW-1, MW-2, and MW-3. Groundwater levels for the current monitoring episode ranged from 0.32 to 0.50 feet below Mean Sea Level (MSL). These

groundwater elevations were an average of 2.66 feet lower than the previous monitoring episode. The direction of the groundwater flow at the time of measurement was towards the southwest. The latest calculated groundwater gradient is  $3.3 \times 10^{-3}$  feet per foot.

Groundwater elevation data is summarized in Table 1. The groundwater elevation contours and the groundwater flow direction are shown in Figure 3. Refer to Appendix B for the Groundwater Monitoring Well Field Sampling Forms.

# **Groundwater Quality**

Since the previous monitoring episode, concentrations of TPH as gasoline and benzene have decreased in wells MW-2, MW-3, and MW-4. However, concentrations have increased in well MW-1 and on average were the highest detected out of all four wells: 7,100  $\mu$ g/L of TPH as gasoline, 2,800  $\mu$ g/L of benzene, 70  $\mu$ g/L of toluene, 220  $\mu$ g/L of ethylbenzene, and 81  $\mu$ g/L of xymmes. MTBE was detected only in wells MW-3 and MW-4 at 6.4  $\mu$ g/L and 5.7  $\mu$ g/L, respectively. No dissolved lead was detected in the wells.

A summary of groundwater quality data is presented in Table 2. Laboratory results and chain of custody documents are included in Appendix B.

### Recommendations

AEI recommends the continued quarterly groundwater monitoring and sampling of the wells in accordance with the requirements of the ACHCSA. The next monitoring and sampling episode is scheduled for August, 2000.

# References

- 1. Underground Storage Tank Removal Final Report, prepared by AEI October 10, 1996
- 2. Phase II Soil and Groundwater Investigation Report, prepared by AEI March 17, 1997
- 3. Workplan, prepared by AEI May 21, 1999
- Soil Boring and Groundwater Monitoring Well Installation Report, prepared by AEI –
   September 16, 1999

# **Report Limitations and Signatures**

This report presents a summary of work completed by AEI Consultants, including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering and construction field which existed at the time and location of the work.

Sincerely,

**AEI Consultants** 

Carrie E. Locke Project Geologist

J. P. Derhake, PE

Principal

**Figures** 

Figure 1 Site Location Map

Figure 2 Site Plan

Figure 3 Groundwater Contour Map

**Tables** 

Table 1 Groundwater Elevations

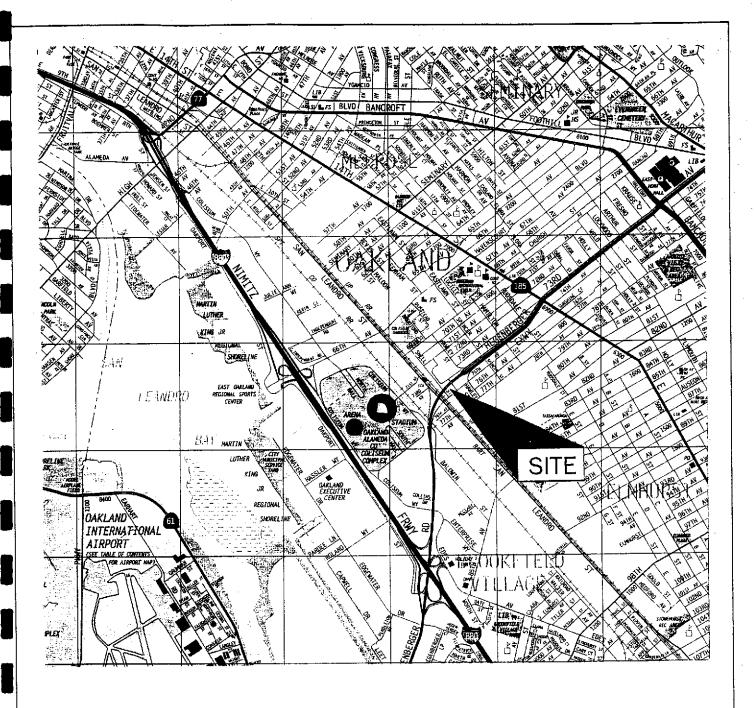
Table 2 Groundwater Sample Analytical Results

Appendices

Appendix A Groundwater Monitoring Well Field Sampling Forms

Appendix B Current Laboratory Analyses With Chain of Custody Documentation

Mr. Barney Chan, ACHCSA, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502

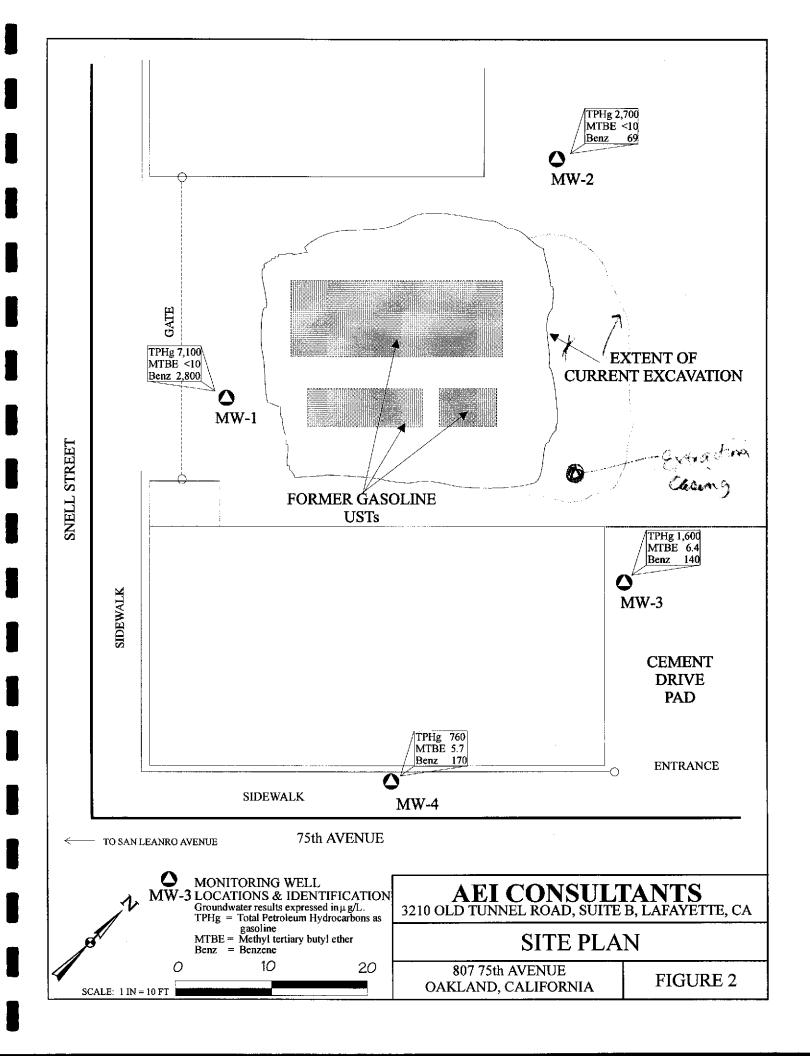




AEI CONSULTANTS
3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

# SITE LOCATION MAP

807 75<sup>th</sup> STREET OAKLAND, CALIFORNIA FIGURE 1 PROJECT NO. 3190



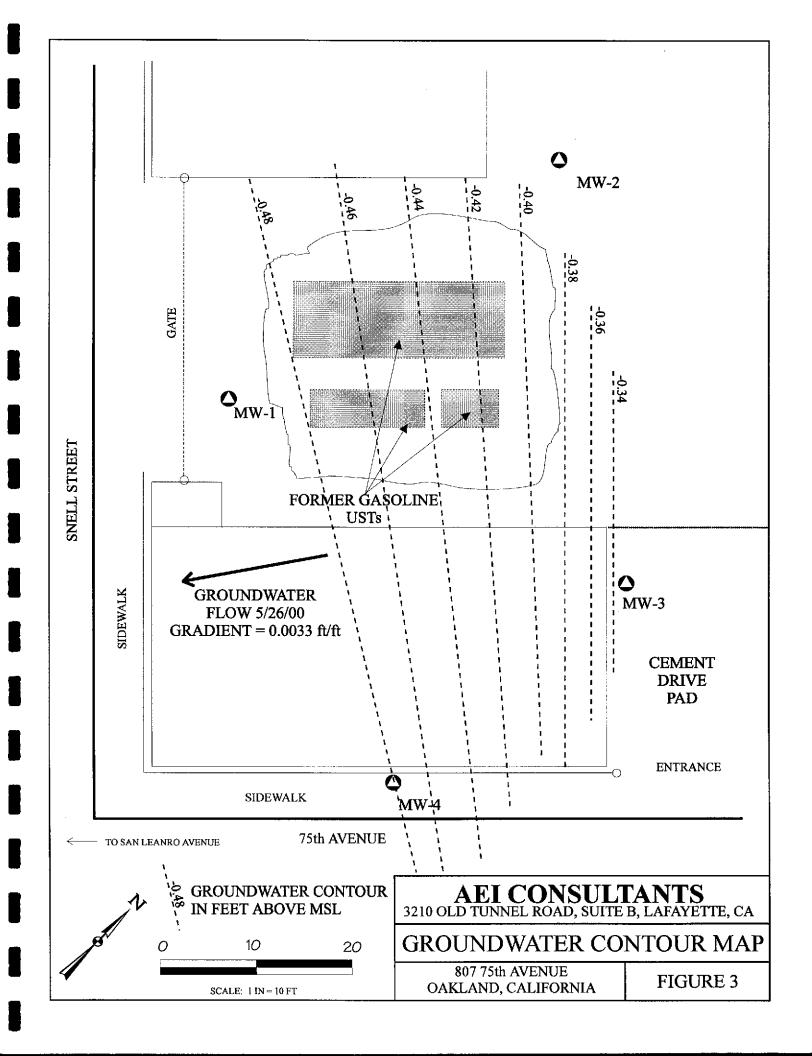


Table 1: Groundwater Elevations

Wellid	Date	Well Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)
MW-1	7/30/99	5.00	5.82	-0.82
	11/9/99	5.00	5.70	-0.70
	2/23/00	5.00	2.84	2.16
	5/26/00	5.00	5.50	-0.50
MW-2	7/30/99	5.95	6.64	-0.69
	11/9/99	5.95	6.42	-0.47
	2/23/00	5.95	3.31	2.64
	5/26/00	5.95	6.34	-0.39
MW-3	7/30/99	4.66	5.35	-0.69
	11/9/99	4.66	5.11	-0.45
	2/23/00	4.66	2.37	2.29
	5/26/00	4.66	4.98	-0.32
MW-4	7/30/99	4.59	5.45	-0.86
	11/9/99	4.59	5.31	-0.72
	2/23/00	4.59	2.72	1.87
	5/26/00	4.59	5.07	-0.48

### Notes:

All well elevations are measured from the top of casing not from the ground surface.

ft msl = feet above mean sea level

Table 2: Groundwater Sample Analytical Results

Sample ID	Sample Collection Date	as gasoline Lug/L	MTBE μg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Dissolved Lead mg/L
MW-1	7/30/99	2,700	<10	920	5.5	18	130	ND
	11/9/99	1,800	<20	430	1.5	26	60	16
	2/23/00	3,800	<10	1,500	56	78	35	ND
	5/26/00	7,100	<10	2,800	70	220	81	ND
MW-2	7/30/99	1,200	<10	29	2.5	51	100	ND
	11/9/99	1,300	<30	26	1.1	55	32	7.5
	2/23/00	5,000	<10	200	18	390	440	ND
	5/26/00	2,700	<10	69	13	83	68	ND
MW-3	7/30/99	2,700	<10	220	15	130	230	ND
	11/9/99	3,100	15	440	9	150	96	6.8
	2/23/00	1,800	<15	180	11	82	79	ND
	5/26/00	1,600	6.4	140	10	69	63	ND
MW-4	7/30/99	340	<10	57	2.2	8.5	6.8	ND
	11/9/99	1,000	<10	220	ND	17	7.1	ND
	2/23/00	980	ND	260	7	33	27	ND
	5/26/00	760	5.7	170	4.8	22	13	ND
MDL		50	5.0	0.5	0.5	0.5	0.5	0.005

MDL = Method Detection Limit

ND = Not detected above the Method Detection Limit (unless otherwise noted)

 $\mu$ g/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

# APPENDIX A WELL FIELD SAMPLING FORMS

### AEI CONSULTANTS - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM Monitoring Well Number: MW-1 Project Name: Omega Date of Sampling: 5/26/00 Job Number: 3190 Name of Sampler: CL Project Address: 807 75th Ave, Oakland MONITORING WELL DATA Well Casing Diameter (2"/4"/6") Seal at Grade -- Type and Condition Cement / Good Well Cap & Lock -- OK/Replace OK Elevation of Top of Casing 5.00 Depth of Well 20. Depth to Water 5.50 Water Elevation -0.50 Three Well Volumes (gallons)\* 2" casing: (TD - DTW)(0.16)(3) 6.96 4" casing: (TD - DTW)(0.65)(3) 6" casing: (TD - DTW)(1,44)(3) Actual Volume Purged (gallons) Appearance of Purge Water Murky **GROUNDWATER SAMPLES** Number of Samples/Container Size 2 VOAs, 500-ml plastic Time Vol Remvd Temp PH Cond Comments (gal) (deg C) (mS) 11:46 72.9 6.69 1,185 11:50 4 74.0 6.69 1,185 11:56 75.3 6.69 1,150 COMMENTS (i.e., sample odor, well recharge time & percent, etc.) Hydrocarbon odor present

TD - Total Depth of Well DTW - Depth To Water

### AEI CONSULTANTS – GROUNDWATER MONITORING WELL FIELD SAMPLING FORM Monitoring Well Number: MW-2 Project Name: Omega Date of Sampling: 5/26/00 Job Number: 3190 Name of Sampler: CL Project Address: 807 75th Ave, Oakland MONITORING WELL DATA Well Casing Diameter (2"/4"/6") 2" Seal at Grade -- Type and Condition Cement / Good Well Cap & Lock - OK/Replace OK Elevation of Top of Casing 5.95 Depth of Well 20 Depth to Water 6.34 Water Elevation -0.39 Three Well Volumes (gallons)\* 2" casing: (TD - DTW)(0.16)(3) 6.56 4" casing: (TD - DTW)(0.65)(3) 6" casing: (TD - DTW)(1.44)(3) Actual Volume Purged (gallons) Appearance of Purge Water Murky GROUNDWATER SAMPLES 2 VOAS, 500-ml plastic bottle Number of Samples/Container Size Time Vol Remvd Temp PH Cond Comments (gal) (deg C) (mS) 11:27 74.1 6.71 860 11:31 4 71.8 6.70 762 11:37 6 72.8 6.69 758 COMMENTS (i.e., sample odor, well recharge time & percent, etc.) Hydrocarbon odor present

TD - Total Depth of Well DTW - Depth To Water

### AEI CONSULTANTS - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM Monitoring Well Number: MW-3 Project Name: Omega Date of Sampling: 5/26/00 Job Number: 3190 Name of Sampler: CL Project Address: 807 75th Ave., Oakland MONITORING WELL DATA Well Casing Diameter (2"/4"/6") Seal at Grade -- Type and Condition Cement / Good Well Cap & Lock -- OK/Replace OK Elevation of Top of Casing 4.66 Depth of Well 20 Depth to Water 4.98 Water Elevation -0.32 Three Well Volumes (gallons)\* 2" casing: (TD - DTW)(0.16)(3) 7.21 4" casing: (TD - DTW)(0.65)(3) 6" casing: (TD - DTW)(1.44)(3) Actual Volume Purged (gallons) Appearance of Purge Water Murky GROUNDWATER SAMPLES Number of Samples/Container Size 2 VOAs, 500-ml plastic bottle Vol Remvd Time Temp PH Cond Comments (deg C) (gal) (mS) 11:08 2 72.4 6.67 1,564 71.4 11:12 4 6.64 1,544 11:17 6 72.2 6.67 1,564 COMMENTS (i.e., sample odor, well recharge time & percent, etc.) Hydrocarbon odor present

TD - Total Depth of Well DTW - Depth To Water

### AEI CONSULTANTS - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM Monitoring Well Number: MW-4 Project Name: Omega Date of Sampling: 5/26/00 Job Number: 3190 Name of Sampler: CL Project Address: 807 75th Ave., Oakland MONITORING WELL DATA Well Casing Diameter (2"/4"/6") Seal at Grade -- Type and Condition Cement / Good Well Cap & Lock -- OK/Replace OK Elevation of Top of Casing 4.59 Depth of Well 20 Depth to Water 5.07 Water Elevation -0.48 Three Well Volumes (gallons)\* 2" casing: (TD - DTW)(0.16)(3) 7.16 4" casing: (TD - DTW)(0.65)(3) 6" casing: (TD - DTW)(1.44)(3) Actual Volume Purged (gallons) Appearance of Purge Water Clear to slightly turbid **GROUNDWATER SAMPLES** Number of Samples/Container Size 2 VOAs, 1-liter amber bottle Time Vol Remvd Temp PH Cond Comments (gal) (deg C) (mS) 10:50 1,529 2 69.5 6.71 10:55 4 69.8 6.67 1,469 11:00 6 72.3 6.69 1,485 COMMENTS (i.e., sample odor, well recharge time & percent, etc.) No hydrocarbon odor or sheen observed

TD - Total Depth of Well DTW - Depth To Water

# APPENDIX B

# LABORATORY ANALYTICAL AND CHAIN OF CUSTODY DOCUMENTATION

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Client Project ID: #3190; Omega	Date Sampled: 05/26/2000					
	Date Received: 05/26/2000					
Client Contact: Carrie Locke	Date Extracted: 05/26-05/27/2000					
Client P.O:	Date Analyzed: 05/26-05/27/2000					
	Client Contact: Carrie Locke					

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) <sup>+</sup>	MTBE Benzene Te		Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
38920	<b>MW</b> -1	w	7100,a	ND<10	2800	70	220	81	98
38921	MW-2	w	2700,a	ND<10	69	13	83	68	108
38922	MW-3	w	1600,a	6.4	140	10	69	63	100
38923	MW-4	w	760,a	5.7	170	4.8	22	13	114
	,								
							: 		
	Limit unless se stated; ND	W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
means not detected above the reporting limit		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L.

<sup>\*</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); t) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc. 3210 Old Tunnel Road, Suite B		Client	Project ID: #319	90; Omega	Date Sampled: 05/26/2000  Date Received: 05/26/2000						
		!		•							
Lafayette, C	A 94549-4157	Client	Contact: Carrie	Locke	Date Extracted: 05/26/2000						
		Client	P.O:		Date Analyzed: 0:	5/30/2000					
EPA analytical	methods 6010/200.7, 23	9.2+	Lea	d*		`					
Lab ID	Client ID	Matrix	Extraction °	Lea	ad*	% Recovery Surrogate					
38920	MW-1	w	Dissolved	N	D	N/A					
38921	MW-2	w	Dissolved	N	D	N/A					
38922	MW-3	w	Dissolved	N	D	N/A					
38923	MW-4	w	Dissolved	N	D	N/A					
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Reporting L	imit unless otherwise	S	TTLC	3.0 n	ng/kg						
stated; ND me	ans not detected above	w	Dissolved	0.003	5 mg/L						
the reporting limit			STLC,TCLP	0.2 1	2 mg/L						

<sup>\*</sup> soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L

\*Lead is analysed using EPA method 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

<sup>&</sup>lt;sup>®</sup> DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.

<sup>&</sup>lt;sup>o</sup> EPA extraction methods 1311(TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC); STLC - CA Title 22

<sup>#</sup> surrogate diluted out of range; N/A means surrogate not applicable to this analysis

<sup>\*</sup> reporting limit raised due matrix interference

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

110 2nd Ave. South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
<a href="http://www.mccampbell.com">http://www.mccampbell.com</a> E-mail: main@mccampbell.com

# **QC REPORT**

Date:

05/30/00-05/31/00

Matrix:

Water

Extraction:

Dissolved

		Concer	%Re					
Compound	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD	
SampleID: 53000 Instrument: GFAA-1								
Lead	0.000	9.2	11.0	10.00	92	110	17.8	

 $\% \text{ Re covery} = \frac{(MS-Sample)}{AmountSpiked} \cdot 100$ 

 $RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2\cdot100$ 

ALL ENVIRONMENTAL, INC. Environmental Engineering & Construction 901 Moraga Road, Suite C

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SAMPLE ID	DATE	TIME	MATRIX				D # F	Z S S	S # E			BAS		<u>/                                    </u>		/ <u>¥</u>	# OF
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+WM-3		101		X							X			389			3
+WM-3		12:38		X							$ \gamma $						3
+WM-4 +WM-3		12:29		X							火	Ţ	<b>□</b>	389	ZZ	! [ ! ]	3
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