# **GROUNDWATER MONITORING REPORT**Third Quarter, 2004

807 75th Avenue Oakland, California

Project No. 3190

Prepared For

Mr. Allan Kanady Omega Termite 807 75th Avenue Oakland, CA 95621

Prepared By

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August 23, 2004

Mr. Allan Kanady Omega Termite 807 75th Avenue Oakland, CA 95621

Subject:

**Quarterly Groundwater Monitoring Report** 

Third Quarter 2004 807 75th Avenue Oakland, California Project No. 3190

Dear Mr. Kanady:

AEI Consultants (AEI) has prepared this report to document the results of the third quarter 2004 groundwater monitoring event 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 near the previous location of underground storage tanks (USTs) at the site.

#### Site Description and Background

The site is located in an industrial area of the City of Oakland, on the northern corner of the intersection of 75<sup>th</sup> Avenue and Snell Street, just east of San Leandro Street. The property is approximately 10,000 square feet in size and currently developed with two buildings, occupied by Omega.

On September 15, 1996, AEI removed three gasoline USTs from the subject property. The tanks consisted of one 8,000-gallon UST, one 1,000-gallon UST, and one 500-gallon UST. The former locations of the tanks are shown in Figure 2. Five soil samples and one groundwater sample collected during the tank removal activities revealed that a release had occurred from the tank system. Total petroleum hydrocarbons as gasoline (TPH-g), benzene, and methyl tertiary butyl ether (MTBE) were detected up to 4,300 mg/kg, 13 mg/kg, and 25 mg/kg, respectively in soil samples. The excavation was not backfilled. Soil removed from the excavation was stockpiled on the northern portion of the property. In 1999 soil samples collected from the stockpiled soil contained non-detectable to minor concentrations of TPH-g. Mr. Barney Chan of the ACHCSA approved the stockpiled soil for reuse in the excavation.

In October 1997, soil and groundwater samples were collected from six soil borings (BH-1 through BH-6). In June 1999, four groundwater monitoring wells (MW-1 through MW-4) were also installed by AEI. The construction details for the groundwater monitoring wells on site are

summarized in Table 1. Monitoring well locations are shown on Figure 2. Historical groundwater elevation and historical groundwater sample analytical data are presented in Tables 2 and 3.

Under the direction of the ACHCSA, additional soil was removed from the excavation in March 2000. The excavation was extended to 29 by 48 feet in size and 8 feet deep at the east end of the excavation and 11.5 at the west end. During the excavation activities, an additional 500-gallon UST was discovered at the eastern end of the excavation. This tank was removed under the direction of Oakland Fire Services Agency (OFSA). Six additional soil samples were collected from the sidewalls and bottom of the excavation.

The resulting excavation was then backfilled with pea gravel to bridge the water table, with the remainder of the excavation being filled with the previously aerated soil and later with imported fill. The newly excavated soil was stockpiled on the northern portion of the property. A total of 7,400 gallons of hydrocarbon impacted groundwater were pumped from the excavation, treated on-site, and discharged under an East Bay Municipal Utility District permit to the sanitary sewer system.

AEI carried out a site characterization on October 9 and 10, 2003, to address ACHCSA's requests for additional delineation of the vertical and lateral extents of impacted soil and groundwater. Seven temporary Geoprobe® boreholes (SB-7 through SB-13) were advanced to depths ranging from 15 to 20 feet bgs. One borehole, SB-14 was advanced to a depth of 30 feet bgs to determine if the second aquifer at the site had been impacted. Soil samples were collected in the vadose zone above the first aquifer and from the aquitard between the first and second aquifers. Groundwater samples were collected from both aquifers. The analysis of water samples from the second aquifer found that hydrocarbons had impacted that aquifer.

### **Summary of Activities**

AEI conducted quarterly groundwater monitoring of four monitoring wells (MW-1, MW-2, MW-3 and MW-4) and the one temporary backfill extraction well (TW-5) on July 15, 2004. Prior to measuring depth to water measurements, the caps were removed from the top of all wells and the water level allowed to equilibrate with atmospheric pressure for at least 15 minutes. The depth to groundwater (from the top of the well casings) for each well was measured with an electric water level indicator. The wells were then purged using a battery powered submersible pump. Approximately three well volumes were removed from each well. Temperature, pH, specific conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured and the turbidity was visually noted during the purging of the wells.

Once the groundwater parameters stabilized, and following recovery of water levels, water samples were collected from each well. Sample waters were collected using new disposable bailers and placed into 40-milliliter (ml) Volatile Organic Analysis (VOA) vials and 1-liter amber bottles. The VOAs were capped so that no headspace or air bubbles were visible within the vials. Samples were transported in a cooler on ice under appropriate chain-of-custody

protocol to McCampbell Analytical, Inc. of Pacheco, California (Department of Health Services Certification #1644).

Groundwater samples from the five wells were analyzed for TPH-g, benzene, toluene, ethyl benzene, xylenes (BTEX), and MTBE by SW8021B/8015Cm. The groundwater samples were also analyzed for TPH-d (as diesel) and TPH-mo (as motor oil) by SW8015C.

#### **Field Results**

Hydrocarbon odor was detected in wells MW-1, MW-2, MW-3 and TW-5. Groundwater levels for this sampling episode ranged from -0.50 to -0.68 feet relative to mean sea level (msl). These elevations are an average of 0.48 feet higher than at the time of the previous quarterly monitoring event. Groundwater flow direction was estimated to be to the south with a hydraulic gradient of 0.017 ft/ft. The hydraulic gradient is an increase over the previous quarters gradient of 0.014ft/ft. The temporary extraction well, TW-5, is not included in calculating the groundwater direction flow or the hydraulic gradient due to variation in well construction and its location on the backfilled tank excavation.

Groundwater elevation data are summarized in Table 2. The groundwater elevation contours and the groundwater flow direction are shown in Figure 4. Refer to Appendix A for the Groundwater Monitoring Well Field Sampling Forms.

### **Groundwater Quality**

TPH-g concentration decreased in wells all five wells. TPH-d concentrations decreased in wells MW-1 through MW-4, but increased in well MW-5. MTBE has not been detected above laboratory reporting limits in any of the wells sampled since the September 19, 2001 monitoring event. Benzene concentrations decreased in all wells. TPH-mo increased over last quarter in well MW-1 from ND<250 to 260  $\mu$ g/L. TPH-mo increased slightly in TW-5 from 1,100  $\mu$ g/L to 1,600  $\mu$ g/L. No detectable levels of TPH-mo were found in monitoring wells MW-2 through MW-4.

A summary of groundwater analytical data is presented in Table 3. Laboratory results and chain of custody documents are included in Appendix B.

#### **Conclusions**

Concentrations of TPH-g and benzene have shown seasonal fluctuations in all wells as groundwater levels rise and fall.

Groundwater monitoring and sampling of the five wells will continue, with the next episode scheduled for October 2004.

### 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 that existed at the time and location of the work.

Please contact me if you have any questions regarding the findings outlined in this report.

Sincerely,

**AEI Consultants** 

Robert F. Flory, RG Project Manager

Péter J. McIntyre

Program Manager

cc:

Mr. Amir Gholami

**ACHCSA** 

1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502

#### 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
- 4. Soil Boring and Groundwater Monitoring Well Installation Report, prepared by AEI-September 16, 1999
- 5. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-July 28, 2000.
- 6. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-November 3, 2000.
- 7. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-February 7, 2001.
- 8. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-July 2, 2001.
- 9. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-February 20, 2002.
- 10. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-June 21, 2002.
- 11. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-October 14, 2002.
- 12. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-January 31, 2003.
- 13. Groundwater Monitoring Report, 13th Episode 2003, prepared by AEI-March 19, 2003.
- 14. Groundwater Monitoring Report, 14th Episode 2003, prepared by AEI-September 8, 2003.
- 15. Groundwater Monitoring Report, Fourth Quarter 2003, prepared by AEI-October 24, 2003.
- 16. Groundwater Monitoring Report, First Quarter 2004, prepared by AEI-January 29, 2004.
- 17. Groundwater Monitoring Reprt, Second Quarter 2004, prepared by AEI-May 24, 2004.
- 18. Groundwater Monitoring Reprt, Second Quarter 2004, prepared by AEI-August 23, 2004.

#### **Figures**

Figure 1 Site Location Map

Figure 2 Site Map

Figure 3 Groundwater Analytical Data

Figure 4 Groundwater Gradient

#### **Tables**

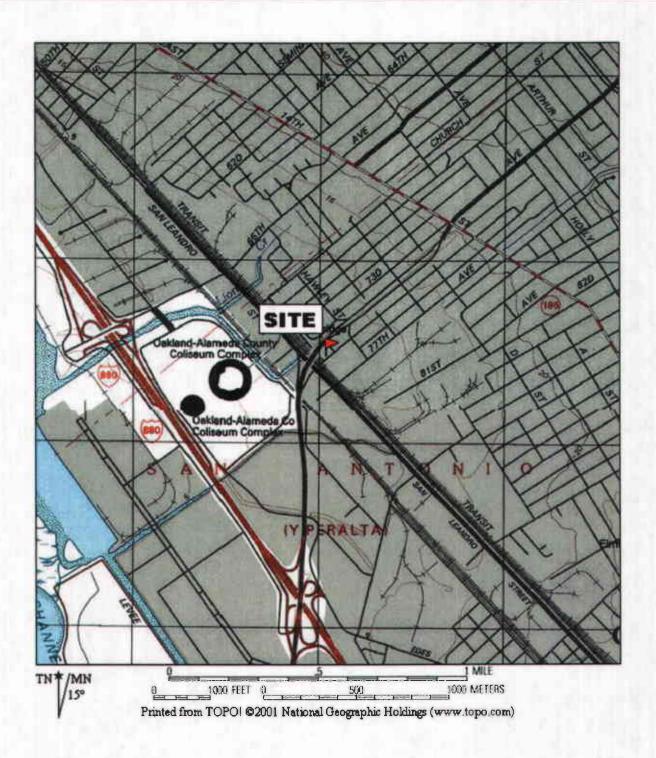
Table 1 Well Construction Details

Table 2 Historical Groundwater Elevations

Table 3 Historical Groundwater Analytical Results

**Appendix A** Groundwater Monitoring Well Field Sampling Forms

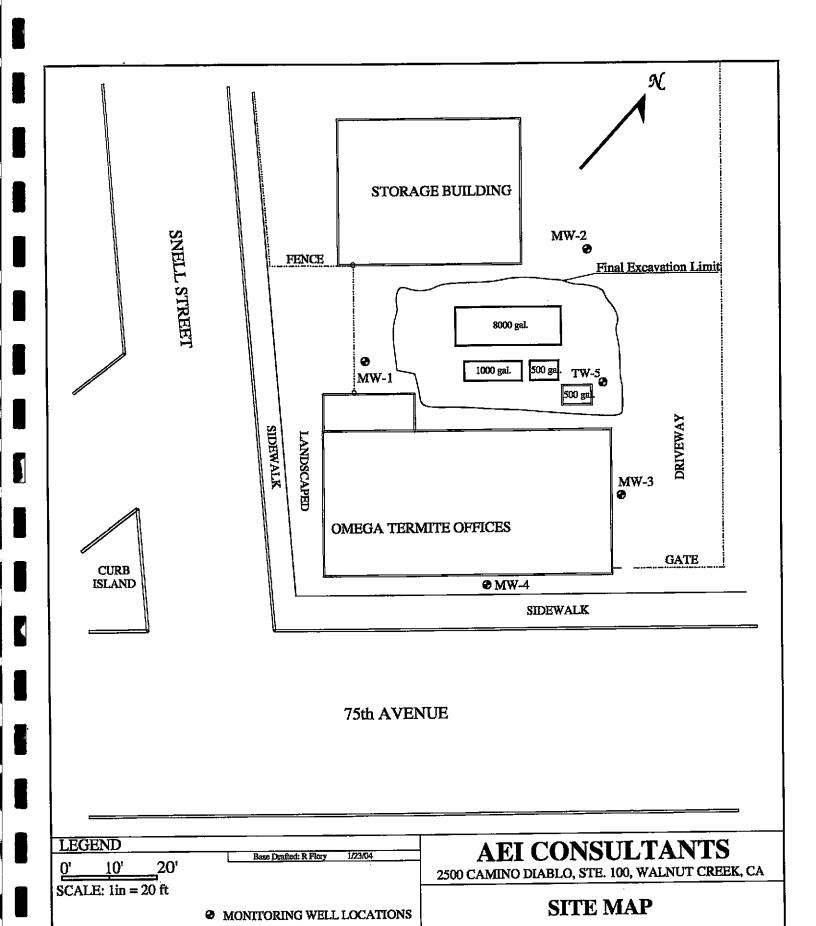
**Appendix B** Laboratory Reports With Chain of Custody Documentation



# AEI CONSULTANTS 2500 CAMINO DIABLO, STE 200, WALNUT CREEK, CA

### SITE LOCATION MAP

807 75<sup>th</sup> AVENUE OAKLAND, CALIFORNIA FIGURE 1 PROJECT No. 3190

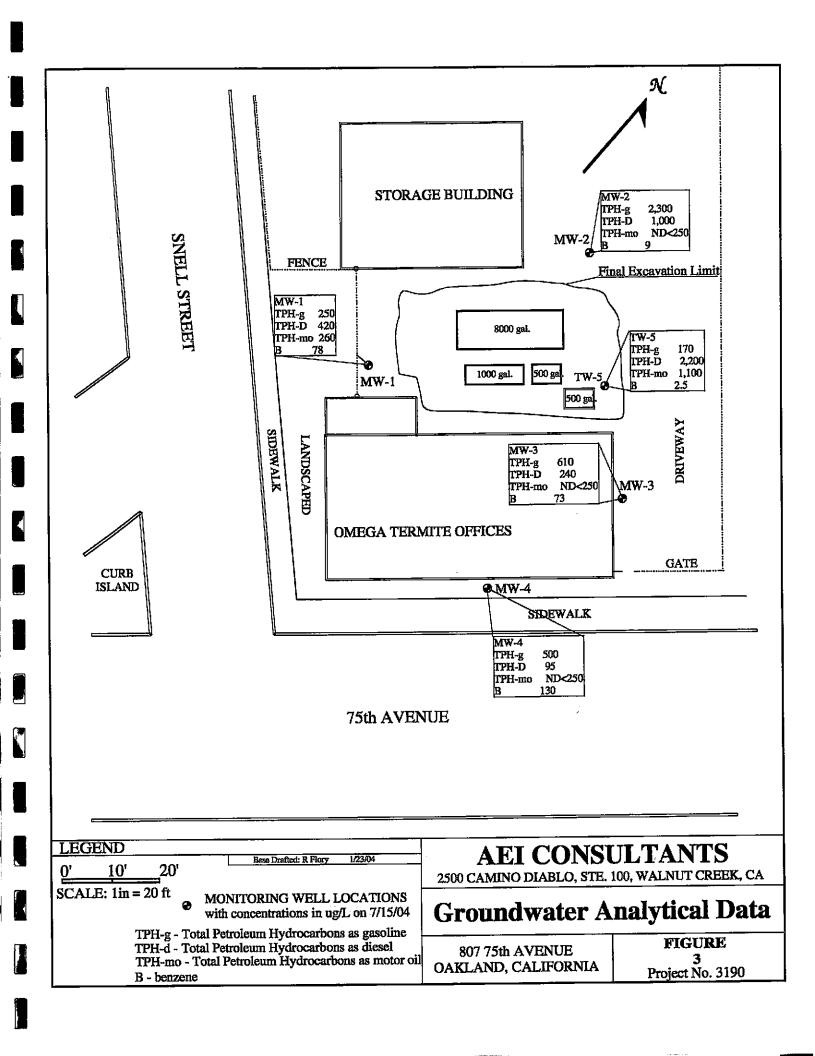


**FIGURE** 

Project No. 3190

807 75th AVENUE

OAKLAND, CALIFORNIA



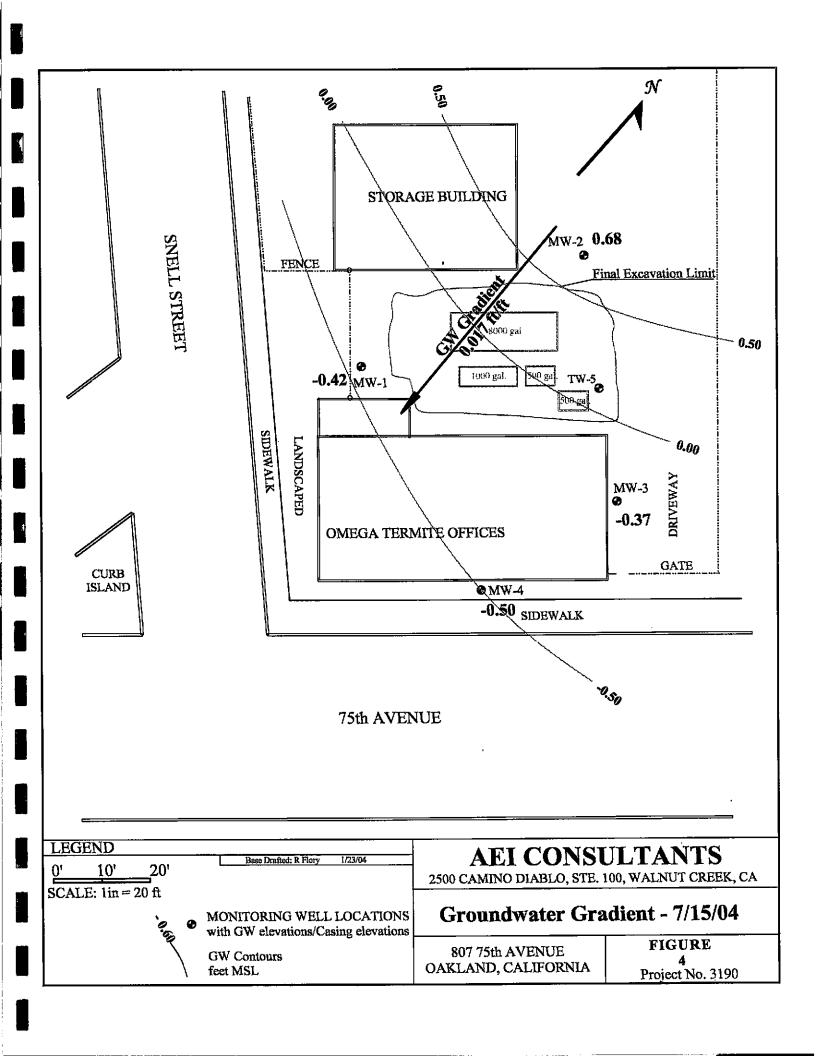


Table 1 Well Construction Details, Omega Termite, 807 75th Ave., Oakland, CA

Well ID	Date Installed	Top of Casing (feet)	Water Dep[th 10/14/03	Casing Material		Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material (feet)	Bentonite Seal (feet)	Grout Seal (feet)
MW-1	06/25/99	5.00	5.03	PVC	20	20	8 1/4	2	20.0-5.0	0.02	5.0.4.5	#3 sand	4.5-3.5	3.5-0.5
MW-2	06/25/99	5.95	6.43	PVC	20	20	8 1/4	2	20.0-5.0	0.02	5.0.4.5	#3 sand	4.5-3.5	3.5-0.5
MW-3	06/25/99	4.66	5.16	PVC	20	20	8 1/4	2	20.0-5.0	0.02	5.0.4.5	#3 sand	4.5-3.5	3.5-0.5
MW-4	06/25/99	4.59	5.25	PVC	20	20	8 1/4	2	20.0-5.0	0.02	5.0.4.5	#3 sand	4.5-3.5	3.5-0.5
TW-5	Mar. 2000	NS	6.08	PVC	10	10	NA	4	10.0-5.0	drilled	NA	NA	NA	2.0

Table 2 - Groundwater Elevations, Omega Termite, 807 75th Ave., Oakland, CA

Well ID	Date	Well Elevation (ft amsl)	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MW-1	07/30/99	5.00	5.82	-0.82
	11/09/99	5.00	5.70	-0.70
	02/23/00	5.00	2.84	2.16
	05/26/00	5.00	5.50	-0.50
	10/10/00	5.00	5.70	-0.70
	02/07/01	5.00	5.25	-0.25
	05/25/01	5.00	5.25	-0.25
	09/19/01	5.00	5.51	-0.51
	02/06/02	NS	NS	NS
	05/17/02	5.00	5.30	-0.30
	08/20/02	5.00	5.39	-0.39
	01/10/03	5.00	4.11	0.89
	04/14/03	5.00	4.85	0.15
	07/14/03	5.00	5.08	-0.08
	10/14/03	5.00	5.63	-0.63
	01/13/04	5.00	4.53	0.47
	04/15/04	5.00	5.14	-0.14
	07/15/04	5.00	5.42	-0.42
MW-2	07/30/99	5.95	6.64	-0.69
	11/09/99	5.95	6.42	-0.47
	02/23/00	5.95	3.31	2.64
	05/26/00	5.95	6.34	-0.39
	10/10/00	5.95	6.52	-0.57
	02/07/01	5.95	5.90	0.05
	05/25/01	5.95	6.08	-0.13
	09/19/01	5.95	6.53	-0.58
	02/06/02	5.95	5.72	0.23
	05/17/02	5.95	6.17	-0.22
	08/20/02	5.95	NS	NS
	01/10/03	5.95	5.12	0.83
	04/14/03	5.95	4.98	0.97
	07/14/03	5.95	5.99	-0.04
	10/14/03	5.95	6.43	-0.48
	01/13/04	5.95	5.42	0.53
	04/15/04	5.95	6.02	-0.07
	07/15/04	5.95	5.27	0.68

Table 2 - Groundwater Elevations, Omega Termite, 807 75th Ave., Oakland, CA

Well ID	Date	Well Elevation (ft amsl)	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MW-3	07/30/99	4.66	5.35	-0.69
	11/09/99	4.66	5.11	-0.45
	02/23/00	4.66	2.37	2.29
	05/26/00	4.66	4.98	-0.32
	10/10/00	4.66	5.24	-0.58
	02/07/01	4.66	4.73	-0.07
	05/25/01	4.66	4.73	-0.07
	09/19/01	4.66	5.07	-0.41
	02/06/02	4.66	4.69	-0.03
	05/17/02	4.66	4.80	-0.14
	08/20/02	4.66	4.97	-0.31
	01/10/03	4.66	3.59	1.07
	04/14/03	4.66	5.40	-0.74
	07/14/03	4.66	4.69	-0.03
	10/14/03	4.66	5.16	-0.50
	01/13/04	4.66	4.15	0.51
	04/15/04	4.66	4.73	-0.07
	07/15/04	4.66	5.03	-0.37
MW-4	07/30/99	4.59	5.45	-0.86
	11/09/99	4.59	5.31	-0.72
	02/23/00	4.59	2.72	1.87
	05/26/00	4.59	5.07	-0.48
	10/10/00	4.59	5.32	-0.73
	02/07/01	4.59	<b>4</b> .73	-0.14
	05/25/01	4.59	4.90	-0.31
	09/19/01	4.59	5.16	-0.57
	02/06/02	4.59	4.65	-0.06
	05/17/02	4.59	4.90	-0.31
	08/20/02	4.59	5.02	-0.43
	01/10/03	4.59	3.78	0.81
	04/14/03	4.59	4.11	0.48
	07/14/03	4.59	4.75	-0.16
•	10/14/03	4.59	5.28	-0.69
	01/13/04	4.59	4.07	0.52
	04/15/04	4.59	4.70	<b>-0.</b> 11
	07/15/04	4.59	5.09	-0.50

Table 2 - Groundwater Elevations, Omega Termite, 807 75th Ave., Oakland, CA

Well ID	Date	Well Elevation (ft amsl)	Depth to Water (ft)	Groundwater Elevation (ft amsl)
TW-5	09/19/01	ns	6.59	na
	05/17/02	ns	6.56	0.03
	08/20/02	ns	6.62	-0.06
	01/10/03	ns	4.66	1.96
	04/14/03	ns	5.30	-0.64
	07/14/03	ns	5.84	-0.54
	07/14/03	ns	5.84	0.00
	10/14/03	ns	6.08	-0.24
	01/13/04	ns	4.83	1.25
	04/15/04	ns	5.64	-0.81
	07/15/04	ns	5.89	-0.25

Depth to water measured from the top of well casing

ns - TW-5 Not surveyed na - not available

ft amsl = feet above mean sea level

Table 1 - Groundwater Elevations, 807 75th Ave., Oakland, CA

Episode	Date	Average Water Table Elevation (ft amsl)	Water Table Elevation Change (ft)	Hydraulic Gradient/ Flow Direction (ft/ft)
1	07/30/99	-0.77	-	== - /
2	11/09/99	-0.59	0.18	0.0056 / SW
3	02/23/00	2.24	2.83	0.008 / S
4	05/26/00	-0.42	-2.66	0.003 / SW
5	10/10/00	-0.65	-0.22	0.0036/S
6	02/07/01	-0.10	0.54	0.008 / S
7	05/25/01	-0.19	-0.09	0.006 / S
8	09/19/01	-0.52	-0.33	0.004 / S
9	02/06/02	0.05	0.56	0.005 / SE
10	05/17/02	-0.24	-0.29	0.003 / SW
11	08/20/02	-0.38	-0.13	0.002 / S
12	01/10/03	0.90	1.28	0.006 / E-NE
13	04/14/03	0.22	-0.69	0.016 / E-NE
14	07/14/03	-0.08	-0.29	.0017 / S-SE
15	10/14/03	-0.58	-0.50	.003 / SE
16	01/13/04	0.51	1.08	.001 / W
17	04/15/04	-0.08	-0.59	.001 / W
18	07/15/04	-0.15	-0.08	.001/W

Table 3 Historical Groundwater Analyses, Omega Termite, 807 75th Ave., Oakland, CA

Sample	Sample	Water	ТРН-д	TPH-d	TPHmo	MTBE	Benzene	Toluene	Ethyl	Xylenes
ID	Collection	depth						·	benzene	
	Date		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
MW-1	07/30/99	5.82	2,700			ND<10	920	5.5	18	130
	11/09/99	5.70	1,800			ND<20	430	1.5	26	60
	02/23/00	2.84	3,800			ND<10	1,500	56	78	35
	05/26/00	5.50	7,100		-	ND<10	2,800	70	220	81
	10/10/00	5.70	980			ND<5.0	260	2.9	10	11
	02/07/01	5.25	570			ND<5.0	150	1.8	4.9	9.3
	05/25/01	5.25	18,000			ND<100	3,800	350	550	620
	09/19/01	5.51	840			ND<5.0	190	4.0	4.6	5.3
	02/06/02	NS	***				and to			
	05/17/02	5.30	13,000	920		ND<5.0	4,500	29	50	58
	08/20/02	5.39	2,100	740	ND<5000 <sup>2</sup>	ND<15	820	4.5	6.4	9.6
	01/10/03	4.11	95	260	ND<5000 <sup>2</sup>	ND<5.0	23	0.66	3.9	6.5
	04/14/03	4.85	340	310		ND<5.0	87	1.3	4.3	5.6
	07/14/03	5.08	. 750	700		ND<10	420	0.84	3.7	6.0
	10/14/03	5.63	200	990³	460.0	ND<5.0	62	0.83	2.2	2.7
	01/13/04	4.53	510 <sup>4</sup>	$440^{6}$	ND<250	ND<5.0	190	1.7	11	18.0
•	04/15/04	5.14	740 <sup>4</sup>	490 <sup>6</sup>	ND<250	ND<10	240	ND<0.5	5.0	9.6
	07/15/04	5.42	250 <sup>4</sup>	420	260	ND<5.0	78	ND<0.5	5.0	4.4
MW-2	07/30/99	6.64	1,200			ND<10	29	2.5	51	100
	11/09/99	6.42	1,300			ND<30	26	1.1	55	32
	02/23/00	3.31	5,000			ND<10	200	18	390	440
	05/26/00	6.34	2,700			ND<10	69	13	83	68
	10/10/00	6.52	810			ND<10	17	4.7	42	46
	02/07/01	5.90	2,600			ND<10	70	15	80	100
	05/25/01	6.08	2,400			ND<5.0	75	16	85	100
	09/19/01	6.53	1,200			ND<5.0	10	8.5	46	55
	02/06/02	5.72	1,800			ND<50	14	11	58	59
	05/17/02	6.17	2,000	860		$8.1^{1}$	19	1.1	0.75	88
	08/20/02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/10/03	5.12	2,000	910	ND<5000 <sup>2</sup>	ND<50	11	11	96	100
	04/14/03	4.98	2,400	800	-	ND<10	16	10	100	73
	07/14/03	5.99	1,900	970	-	ND<15	18	4.8	79	78
	10/14/03	6.43	$1,600^{5,6}$	1,300	ND<250	ND<10	14	5.9	87	78
	01/13/04	5.72	$2,900^4$	960 <sup>5, 6</sup>	ND<250	ND<50	26	13	190	150
	04/15/04	6.02	2,700 <sup>4</sup>	1,1005,6	ND<250	ND<15	28	11	120	100
	07/15/04	5.27	2,300 <sup>4</sup>	1,000 <sup>5, 6</sup>	ND<250	ND<10	9	4	96	84

Table 3 Historical Groundwater Analyses, Omega Termite, 807 75th Ave., Oakland, CA

Sample ID	Sample Collection	Water depth	TPH-g	TPH-d	ТРНто	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes
	Date		μg/L	μg/L	μg/L	μg/L	μ <b>g/</b> L	μg/L	μg/L	μg/L
MW-3	07/30/99	5.35	2,700			ND<10	220	15	130	230
	11/09/99	5.11	3,100			15	440	8.8	150	96
	02/23/00	2.37	1,800			ND<15	180	11	82	79
	05/26/00	4.98	1,600			6.4	140	10	69	63
	10/10/00	5.24	1,100			ND<10	. 110	4.4	63	51
	02/07/01	4.73	1,100			ND<10	130	<b>5.</b> 1	68	65
	05/25/01	4.73	1,200			ND<6.0	120	5.4	69	64
	09/19/01	5.07	800			<5.0	78	3.5	52	37
	02/06/02	4.69	1,100			ND<10	130	4.7	77	71
	05/17/02	4.80	2,800	810		ND<50/2.0 <sup>1</sup>	410	23	160	210
	08/20/02	4.97	780	270	$ND < 5000^2$	ND<10	110	2.8	63	41
	01/10/03	3.59	1,100	510	ND<5000 <sup>2</sup>	ND<20	160	3.4	98	84
	04/14/03	5.40	690	230	-	ND<5.0	60	2.3	44	34
	07/14/03	4.69	900	380	-	ND<5.0	130	2.0	70	43
	10/14/03	5.16	500	$200^{5, 6}$	ND<250	ND<10	50	2.3	37	18
	01/13/04	4.15	1500 <sup>4</sup>	$400^{6}$	ND<250	ND<30	200	6.2	120	88
	04/15/04	4.73	$1,100^{4}$	$280^{6}$	ND<250	ND<15	130	3.7	75	53
	04/15/04	5.03	610 <sup>4</sup>	240 <sup>5, 6</sup>	ND<250	ND<5.0	73	2.1	51	29
MW-4	07/30/99	5.45	340			ND<10	57	2.2	8.5	6.8
	11/09/99	5.31	1,000			ND<10	220	< 0.5	17	7.1
	02/23/00	2.72	980			ND<5.0	260	7	33	27
	05/26/00	5.07	760			5.7	170	4.8	22	13
	10/10/00	5.32	520			ND<10	130	2.3	22	10
	02/07/01	4.73	680			ND<8.0	180	3.7	29	21
	05/25/01	4.90	1,700			ND<10	510	9.6	44	46
	09/19/01	5.16	680			ND<10	200	2.6	33	12
	02/06/02	4.65	710			ND<15	220	2.8	40	21
	05/17/02	4.90	1,300	190	سميم	3.3 <sup>1</sup>	330	5.6	61	51
	08/20/02	5.02	580	120	$ND < 5000^2$	ND<5.0	160	1.7	34	13
	01/10/03	3.78	800	85	ND<5000 <sup>2</sup>	ND<20	240	2.5	46	28
	.04/14/03	4.11	850	120		ND<10	220	2.7	47	26
	07/14/03	4.75	780	170		ND<20	220	1.4	44	23
	10/14/03	5.25	420	110 <sup>5, 6</sup>	ND<250	ND<5.0	120	0.95	31	8.2
	01/13/04	4.07	120 <sup>4</sup>	69 <sup>6</sup>	ND<250	ND<10	30	0.52	8.1	4.7
	04/15/04	4.70	660 <sup>4</sup>	$120^{6}$	ND<250	ND<25	200	2.2	39	24
	07/15/04	5.09	500 <sup>4</sup>	92 <sup>5, 6</sup>	ND<250	ND<5.0	130	1.3	35	15

Table 3 Historical Groundwater Analyses, Omega Termite, 807 75th Ave., Oakland, CA

Sample ID	Sample Collection	Water depth	TPH-g	TPH-d	TPHmo	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes
	Date	черш	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
TW-5	10/10/00		5,800	2,900	ND<250	ND<50	650	60	190	230
v	02/07/01	<b></b>	720	650	450	ND<5.0	6.0	4.5	3.2	4.5
Mary 1	05/25/01		370	420	ND<250	ND<5.0	13.0	4.1	1.6	1.3
	09/19/01	6.59	15,000	2,700,000	1,100,000	530	29	2.7	14	240
	02/06/02		280	55,000	18,000	ND<5.0	2.3	0.74	ND<0.5	0.70
	05/17/02	6.56	480	41,000		ND<5.0/<5.0 <sup>1</sup>	1.6	1.1	0.8	ND<0.5
	08/20/02	6.62	240	21,000	ND<5000 <sup>2</sup>	ND<5.0	8.0	1.2	1.1	0.54
	01/10/03	4.66	ND<50	1,300	ND<5000 <sup>2</sup>	ND<5.0	5.4	0.58	ND<0.5	1.10
	4/14/2003	5.30	160	2,300		ND<5.0	18	5.7	5.9	16
	7/14/2003	5.84	100	16,000		ND<5.0	1.2	0.77	0.63	1.2
	10/14/03	6.08	120 <sup>7</sup>	10,000 <sup>7</sup>	4,600	ND<5.0	1.6	1.6	ND<0.5	1.2
	01/13/04	4.83	$110^{4}$	2,100	1,400	ND<5.0	8.4	1.2	ND<0.5	3.9
	04/15/04	5.64	170 <sup>4</sup>	2,200	1,100	ND<5.0	2.5	1.2	ND<0.5	5.1
	07/15/04	5.89	<b>81</b> <sup>4</sup>	3,000	1,600	ND<5.0	5	1.3	0.85	4.1

Notes

mg/L micrograms per liter (parts per billion)

--- not sampled

ND not detected
TPH-g total petroleum hydrocarbons as gasoline

TPH-d total petroleum hydrocarbons as diesel

TPH-mo total petroleum hydrocarbons as motor oil

- 1 MTBE concentrations by methods 8021B/8260B
- 2 analysis for total oil and grease by method 5520
- 3 fuel oil
- 4 unmodified or weakly modified gasoline is significant
- 5 diesel range compounds are significant; no recognizable pattern
- 6 gasoline range compounds are significant
- 7 lighter than water immiscible sheen/product is present
- 8 unmodified or weakly modified diesel is significant

# APPENDIX A WELL FIELD SAMPLING FORMS

# <u>AEI CONSULTANTS</u> GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number:

MW-1

Project Name:	Omega Termite	Date of Sampling: 7/15/2004
Job Number:	3190	Name of Sampler: AN
Project Address:	807 75th Avenue Oakland	

MONITORK	reanding an		- <b>35</b> 00000	
Well Casing Diameter (2"/4"/6")		2		
Wellhead Condition	ок		▼	
Elevation of Top of Casing (feet above msl)		5.00		
Depth of Well		20.00		
Depth to Water (from top of casing)		5.42		
Water Elevation (feet above msl)	-0.42			
Well Volumes Purged	3			
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)		7.0		
Actual Volume Purged (gallons)		8.0		
Appearance of Purge Water		clears at 4.5 gallons		
Free Product Present	? No	Thickness (ft):	NA	

					, 1 L Amber		
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	18.45	9.77	1135	80.0	-222.6	
	4	18.85	9.84	1110	80.0	-225.1	
	6	19.12	9.75	1130	0.14	-227.3	
	8	18.58	9.71	1145	0.37	-229.3	

Initially dark and strong hydrocarbon odor.	 · · · · · · · · · · · · · · · · · · ·	

# AEI CONSULTANTS GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number:

MW-2

Project Name:	Omega Termite	Date of Sampling: 7/15/2004
Job Number:	3190	Name of Sampler: AN
Project Address:	807 75th Avenue Oakland	

MONITORIN	G WELLDATA
Well Casing Diameter (2"/4"/6")	2
Wellhead Condition	ОК
Elevation of Top of Casing (feet above msl)	5.95
Depth of Well	20.00
Depth to Water (from top of casing)	5.27
Water Elevation (feet above msl)	0.68
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	7.2
Actual Volume Purged (gallons)	8.0
Appearance of Purge Water	clears quickly
Free Product Present	P No Thickness (ft): NA

per of Sam	ples/Container S	Size		2 - 40ml VOAs	, 1 L Amber		
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	19.66	7.97	1138	80.0	-213.4	
	4	20.46	8.03	1153	0.07	-208.2	
	6	20.21	8.30	1147	0.06	-206.5	
	8	19.72	8.58	1111	0.06	-212.5	

Initially light grey and strong hydrocarbon odor	

# AEI CONSULTANTS GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number:** 

MW-3
------

Project Name:	Omega Termite	Date of Sampling: 7/15/2004
Job Number:	3190	Name of Sampler: AN
Project Address:	807 75th Avenue Oakland	

MONITORIN			
Well Casing Diameter (2"/4"/6")		2	
Wellhead Condition	ОК		•
Elevation of Top of Casing (feet above msl)		4.66	
Depth of Well		20.00	
Depth to Water (from top of casing)		5.03	
Water Elevation (feet above msl)		-0.37	
Well Volumes Purged		3	
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)		7.2	
Actual Volume Purged (gallons)		8.0	
Appearance of Purge Water		clears up at 3 gallons	
Free Product Present	No	Thickness (ft):	NA

						000	
Time	Vol Removed (gal)	Temperature (deg C)	pН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	19.04	9.61	1468	0.61	-100.3	
	4	19.83	9.45	1477	0.62	-19.3	
	6	19.29	9.35	1475	0.65	-100.4	
	8	18.65	9.22	1445	0.49	-256.3	

Initially grey and str	rong hydrocarbon odor		
, , ,		 	

# <u>AEI CONSULTANTS</u> GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number:** 

MW-4

Project Name:	Omega Termite	Date of Sampling: 7/15/2004
Job Number:	3190	Name of Sampler: AN
Project Address:	807 75th Avenue Oakland	

MONITORIA	CENTEL TEA		Fig. 18
Well Casing Diameter (2"/4"/6")		2	
Wellhead Condition	ОК		▼
Elevation of Top of Casing (feet above msl)		4.59	
Depth of Well		20.00	
Depth to Water (from top of casing)		5.09	
Water Elevation (feet above msl)		-0.50	
Well Volumes Purged		3	
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)		7.2	
Actual Volume Purged (gallons)		8.0	
Appearance of Purge Water		clears quickly	
Free Product Present	? No	Thickness (ft): N	A

ber of Samples/Container Size			2 - 40mi VOAs	2 - 40ml VOAs, 1 L Amber			
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comment
	2	19.31	7.66	1515	0.78	-193.3	
	4	19.62	7.41	1487	0.74	-78.3	
	6	19.94	7.22	1476	0.75	-60.2	
	8	19.03	6.77	1483	0.80	-236.3	

No hydrocarbon odor	 		

# <u>AEI CONSULTANTS</u> GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number:** 

TW-5

Project Name:	Omega Termite	Date of Sampling: 7/15/2004
Job Number:	3190	Name of Sampler: AN
Project Address:	807 75th Avenue Oakland	

MONITORIN	GWELL DA	TA THE WAY TO SEE THE SECOND S	
Well Casing Diameter (2"/4"/6")		4	
Wellhead Condition	ОК		▼
Elevation of Top of Casing (feet above msl)			
Depth of Well		10.00	
Depth to Water (from top of casing)		5.89	
Water Elevation (feet above msl)			
Well Volumes Purged		3	
Caculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)		8.5	٠
Actual Volume Purged (gallons)		10.0	
Appearance of Purge Water		clears quickly	
Free Product Present?	No	Thickness (ft): NA	

ber of San	nples/Container S	Size		2 - 40ml VOAs	, 1 L Amber	·	
Time	Vol Removed (gal)	· ·	рН	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments
A CARLO NO.	2	21.82	9.17	1136	0.31	-228.9	
	4	21.98	9.10	1137	0.29	-250.7	
	6	22.01	9.08	1138	0.18	-259.3	
	8	22.04	8.81	1139	0.32	-268.8	
	10	22.04	9.14	1140	0.22	-275.3	

Initially dark grey and slight hydrocarbon odor	

### 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 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #3190; Omega Termite	Date Sampled: 07/15/04
2500 Camino Diablo, Ste. #200		Date Received: 07/15/04
	Client Contact: Robert Flory	Date Extracted: 07/16/04-07/20/04
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed: 07/16/04-07/20/04

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\*

Extraction n	nethod: SW5030B		, , , ,		methods: SW80211			Work (	Order: 0	407209
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	w	250,a	ND	78	ND	2.3	4.4	1	88.7
002A	MW-2	w	2300,a	ND<10	8.8	3.8	96	84	2	100
003A	MW-3	w	610,a	ND	73	2.1	51	29	1	94.6
004A	MW-4	w	500,a	ND	130	1.3	35	15	1	104
005A	TW-5	w	81,a	ND	5.0	1.3	0.84	4.1	1	106
		<u> </u>							-	
										-
								<u> </u>	<u> </u>	
						-	3 3		-	
						-			+	
-										-
			·					- 1000	_	
								·		
					0.5	0.5	0.5	0.5	1	<u> </u>
ND means	g Limit for DF =1; s not detected at or he reporting limit	W S	50 NA	5.0 NA	0.5 NA	0.5 NA	0.5 NA	0.5 NA	1	μg/ mg/l

Reporting Limit for Di 1,	¥Υ	30	J.0	0.5	0.5	0.5	0.5	1 -	752
ND means not detected at or above the reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/Kg
above the reporting mine		IVA.		1,12			i		_
1 1 1 more p. c. CDV p									

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

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

<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 (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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All Environmental, Inc.	Client Project ID: #3190; Omega Termite	Date Sampled: 07/15/04
2500 Camino Diablo, Ste. #200		Date Received: 07/15/04
W. 1 . 4 Co. 1 . CA 04507	Client Contact: Robert Flory	Date Extracted: 07/16/04
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed: 07/15/04-07/16/04

Diesei (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesei and Motor Oil								
Extraction method:	SW3510C		Analytical methods: SW8015C		Work Or	der: 04072		
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS		

Extraction method: SW3510C		Analytical methods: SW8015C			Work Order: 0407209		
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS	
0407209-001B	MW-1	W	420,a	260	1	96.7	
0407209-002B	MW-2	w	1000,d,b	ND	1	97.7	
0407209-003B	MW-3	w	240,d,b	ND	1	98.2	
0407209-004B	MW-4	w	92,d,b	ND	1	97.9	
0407209-005B	TW-5	w	3000,a	1600	1	99.9	
					5		
						-	
Reporting L	imit for DF =1;	w	50	250		μg/L	
	ot detected at or	S	NA	NA .	n	ng/Kg	

Reporting Limit for DF =1;	W	50	250	μg/L
ND means not detected at or above the reporting limit	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/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 diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (automatic transmission fluid); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



<sup>#</sup> cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

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# QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0407209

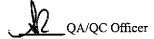
EPA Method: SW80	021B/8015Cm E	xtraction:	SW5030	3	BatchID:	12360	S	piked Samp	le ID: 04072	205-001A
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
•	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) <sup>£</sup>	ND	60	96.9	96.1	0.839	95	93.6	1.51	70	130
мтве	ND	10	104	104	0	109	115	4.63	70	130
Benzene	ND	10	111	113	1.49	111	113	2.19	70	130
Toluene	ND	10	110	110	0	111	98.3	11.9	70	130
Ethylbenzene	ND	10	115	116	1.13	116	110	4.75	70	130
Xylenes	ND	30	100	100	0	100	100	0	70	130
%SS:	84.6	10	107	110	2.45	106	110	3.68	70	130

 $All \ target \ compounds \ in \ the \ Method \ Blank \ of \ this \ extraction \ batch \ were \ ND \ less \ than \ the \ method \ RL \ with \ the \ following \ exceptions:$ 

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(btex) = sum of BTEX areas from the FID.

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

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.



NONE

## McCampbell Analytical, Inc.

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

### QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0407209

EPA Method: SW8015C	E	xtraction:	SW35100	)	BatchID:	atchID: 12361 Spiked Sample ID: N/A								
	Sample	Spiked	MS*	M\$D*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)				
,	µg/L	μg/L	μg/L % Rec.		% RPD	% Rec.	% Rec.	% RPD	Low	High				
TPH(d)	N/A	7500	N/A	N/A	N/A	107	105	1.97	70	130				
%SS:	N/A	2500	N/A	N/A	N/A	109	110	1.40	70	130				

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% If: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer

# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0407209

ClientID: AEL

Report to:

Robert Flory

All Environmental, Inc.

2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597

TEL: FAX: (925) 283-6000 (925) 283-6121

ProjectNo: #3190; Omega Termite

PO:

Bill to:

Requested TAT:

5 days

Lesliegh Alderman

All Environmental, Inc.

2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597

Date Received: Date Printed:

7/15/04

7/16/04

										Re	quest	ed Test	ts (See	legen	d belo	w)					
Sample 1D	ClientSamp1D	Matrix	Collection Date	Hold	1	2	3	4	5	5 ;	6	7	8		) [	10	11	12	13	14	1.
0407209-001	MW-1	Water	7/15/04		Α	В			- <del></del>	1·										·	
0407209-002	MW-2	Water	7/15/04		Α	В						,	ļ						-		
0407209-003	MW-3	Water	7/15/04		Α	В			<u> </u>				ļ						4	-	‡
0407209-004	MW-4	Water	7/15/04		Α	В							<u>:</u> .		_		_		<del> </del>	<u> </u>	
0407209-005	TW-5	Water	7/15/04		Α	В	<u> </u>			<u> </u> _		<u> </u>		1				l	<u> </u>		!

#### Test Legend:

1	G-MBTEX_W
6	
11	The second secon

2 TPH(DMO)_W	
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4
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14

5	
10	
15	

Prepared by: Melissa Valles

#### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

olu

040 12001

Γ	McCAMPBELL ANALYTICAL INC. 110 2 <sup>nd</sup> AVENUE SOUTH, #D7									CHAIN OF CUSTODY RECORD																						
											TURN AROUND TIME							[														
	Talanhar	ie: (925) 798	PACHECO L1620	D, CA 9455	53-5561	) Fs	nx: í	925)	798-	-1622	2												RT	SH	2	14 H	R	48	HR	3	12 HR ()	5-DAY
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