

January 30, 2002

■ ADVANCED ENVIRONMENTAL CONCEPTS INC ■

Mr. Warren Dodson  
Dodson Ltd.  
1323 South Flower Street  
Los Angeles, California 90015

FEB 08 2002

Regarding: **December 2001 Quarterly Groundwater Sampling**  
Former Vogue Tyres Facility  
240 West MacArthur Boulevard  
Oakland, California

Dear Mr. Dodson:

**Advanced Environmental Concepts, Inc. (AEC)** is pleased to present this report of groundwater sampling performed at the former Vogue Tyres facility, 240 West MacArthur Boulevard, Oakland, California (**Attachment A, Figure 1**).

## Background

The former Gulf Service Station originally operated three 10,000 gallon gasoline underground storage tanks (USTs), and one 350 gallon waste oil UST. Historical records indicate that the Gulf station existed since at least 1950. The current location of the Shell Service Station, located adjacent to, and south of the subject site was a fueling station since at least 1952. The three Gulf gasoline USTs were located at the northern portion of the property, (underneath the current building), and the waste oil UST was west of the service bays. The two pump islands were west of the northern portion of the existing building. The 350 gallon waste oil UST was removed in October 1996 by All Environmental, Inc (AEI).

On October 3, 1996, AEI removed the previously identified 350 gallon waste oil UST located west of the service bays. Visual staining of waste oil range hydrocarbons was identified on the floor and sidewalls of the excavation. Confirmation soil samples collected from the excavation indicated that soil beneath the former UST emplacement were impacted with minor concentrations of petroleum hydrocarbons. At the request of ACHCS, AEI expanded the size of the excavation, then collected additional confirmation soil samples which indicated the successful removal of the contamination. Groundwater was not encountered during this excavation phase, however, due to the estimated proximity of the contamination to groundwater, a subsurface investigation was required by the County.

On January 8, 1997, AEI conducted a subsurface investigation consisting of six borings using a Geoprobe. Borings BH-1, BH-2, BH-4, and BH-6 were advanced to 20 feet below grade level (BGL), and BH-3 and BH-5 were probed to 16 feet BGL. Soil samples were collected at intervals of 5 feet, and "grab" groundwater samples were collected from inside the borings. Groundwater was identified at approximately 16 feet BGL.

The soil samples were analyzed in accordance with California Department of Health Services (CA DHS) method for total petroleum hydrocarbons as gasoline and diesel (TPH-g,d) and EPA Method 8020 for volatile aromatics (BTXE), and methyl tertiary butyl ether (MTBE). The soil samples were also analyzed for total lead, oil and grease, and poly nuclear aromatics (PNAs).

Total lead concentrations ranged from 4.6 mg/kg to 23 mg/kg which is below the recommended action level of 50 mg/kg. MTBE was non-detect for all samples analyzed, oil and grease were only run on BH-2 and BH-3 and was less than 50 mg/kg, and the PNAs exhibited trace concentrations ranging between 1.1 and 41  $\mu$ g/kg.

The groundwater samples were analyzed in accordance with California Department of Health Services (CA DHS) method for total petroleum hydrocarbons as gasoline and diesel (TPH-g,d) and EPA Method 8020 for volatile aromatics (BTXE), and methyl tertiary butyl ether (MTBE). Groundwater samples were also analyzed for total lead, oil and grease, and poly nuclear aromatics (PNAs).

Soluble lead concentrations were below detection limits, MTBE ranged from below detection limits to 320 ug/L in BH6W, oil and grease were only run on BH2W and was less than 5 mg/L, and the PNAs exhibited non detectable concentrations.

On August 7, 1997, AEC supervised the drilling of three Geoprobe soil borings (BH-7, BH-8, and BH-9), and installation of four groundwater monitoring wells (MW-1, MW-2, MW-3, and MW-4) proximal to the western dispenser islands, and south, west, and north of the former UST emplacement. The investigative groundwater wells and Geoprobe borings were positioned to assess the vertical and lateral migration of hydrocarbons in the subsurface and to evaluate groundwater quality.

In accordance with directives issued by ACHCS in a letter dated May 16, 2000, groundwater samples collected during June 2000 were also analyzed for the presence of ether oxygenates, specifically: Tertiary Amyl Methyl Ether (TAME), Diisopropyl Ether (DIPE), Ethyl Tertiary Butyl Ether (ETBE), Tertiary Butyl Alcohol (TBA) and the following lead scavengers: Ethylene Dibromide (EDB), Ethylene Dichloride (EDC), and 1,2-Dichloroethane (1,2-DCA).

On February 13, 2001 AEC drilled, sampled, and installed four additional groundwater monitoring wells (MW-5, MW-6, MW-7, and MW-8) on the subject property and offsite in MacArthur Boulevard and Howe Street. Soil and groundwater samples were collected from the newly installed wells and reported in prior quarterly sampling reports.

This latest groundwater sampling report documents the methods and procedures used and the laboratory analytical results obtained from the latest groundwater sampling event conducted at the subject property on December 19, 2001.

## Groundwater Sampling

The groundwater samples were collected in accordance with the following protocol.

- 1) Depth to ground water was measured in each of the wells;
- 2) A bailer was used to collect a water sample from the potentiometric surface to visually determine whether free hydrocarbons or a sheen can be identified;
- 3) Initial readings of pH, Temperature, and Conductivity were obtained (**Attachment B**);
- 4) The water samples were collected in a clean, stainless steel bailer, then transferred to 40-ml. glass VOA vials with Teflon septa. Care was exercised to ensure that no air bubbles were present in the vials;

- 5) The VOA vials were labeled, sealed with tape, wrapped in a protective covering, and placed in an ice chest chilled with frozen Blue Ice with two (2) bailer blanks for transport to the laboratory. Chain-of-custody protocol was followed to ensure sample integrity and traceability;
- 6) The December 2001 samples were analyzed by Zymax Laboratories, a California-certified laboratory in San Luis Obispo, California, for total petroleum hydrocarbons as gasoline (TPH-g), volatile aromatics (BTXE), and oxygenates by EPA methods 8015-modified and 8260B, respectively. The laboratory reports and chain-of-custody documentation are presented in **Attachment C**.

**TABLE 1**  
**Analytical Results - Monitoring Wells**  
**(ppb)**

Sample ID	Date	TPH-g	Benzene	Toluene	Xylenes	Ethylbenzene	MTBE
MW-1	08/8/97	1,140	110	16	112	15	NA
	12/3/97	ND	ND	ND	31	ND	NA
	03/16/98	370	8.9	ND	2.2	ND	18
	07/9/98	6,400	1,300	23	58	3.7	97
	10/19/98	2,500	360	44	150	1.3	ND
	01/19/99	2,700	1,200	28	78	140	130
	6/26/00	27,000	5,200	500	3,100	320	1,300
	12/15/00	976,000	2,490	1,420	10,100	3,640	<150
	02/14/01	NA	NA	NA	NA	NA	NA
	05/11/01	20,000	2,900	310	1,900	230	<30
	07/11/01	92,000	2,900	580	20,000	2,800	560
Pre "hi-vac"	10/22/01	<b>20,000</b>	<b>3,700</b>	<b>560</b>	<b>4,600</b>	<b>410</b>	<b>2,600</b>
Post "hi-vac"	10/26/01	<b>&lt;0.05</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
	12/19/01	3,300	200	12	43	5.7	44.
MW-2	08/08/97	5,350	108	36	144	33	NA
	12/3/97	1,600	73	ND	ND	ND	NA
	3/16/98	3,400	830	100	240	210	870
	07/09/98	3,100	25	2.2	0.9	ND	1,900
	10/19/98	4,300	ND	1.2	1	ND	4,200
	01/19/99	2,900	160	8.9	7.4	6.9	2,100

Sample ID	Date	TPH-g	Benzene	Toluene	Xylenes	Ethylbenzene	MTBE
MW-2	06/26/00	2,700	200	17.0	16.0	30.0	680
	12/15/00	3,020	56.7	<1.5	<1.5	<3.0	3,040
	02/14/01	NA	NA	NA	NA	NA	NA
	05/11/01	720	49	<3	<3	4.6	380
	07/09/01	8,400	350	44	78	77	550
Pre "hi-vac"	10/22/01	850	170	4.9	14	5.1	260
Post "hi-vac"	10/26/01	770	86	5.5	8.5	9.6	310
	12/19/01	1,300	9.2	<2	<2	<2	370
MW-3	08/08/97	8,500	450	30	106	53	NA
	12/03/97	5,200	180	6	9.3	5	NA
	03/16/98	1,000	6.0	ND	ND	ND	810
	07/09/98	6,400	490	57	78	23	220
	10/19/98	2,100	ND	ND	ND	ND	ND
	01/19/99	4,400	450	65	42	26	1,300
	06/26/00	1,700	110	13.0	13.0	34.0	96.0
	12/15/00	5,450	445	<7.5	<7.5	23.8	603
	02/14/01	NA	NA	NA	NA	NA	NA
	05/11/01	1,900	180	12	19	<3	330
	07/09/01	10,000	830	160	260	150	560
Pre "hi-vac"	10/22/01	1,400	240	7.8	15	4.1	220
Post "hi-vac"	10/26/01	1,900	200	16	30	51	290
	12/19/01	5,800	93	<20	<20	31	330
MW-4	08/08/97	ND	ND	ND	ND	ND	NA
	12/03/97	ND	ND	ND	ND	ND	NA
	03/16/98	ND	ND	ND	ND	ND	ND
	07/09/98	ND	ND	ND	ND	ND	ND
	10/19/98	ND	ND	ND	ND	ND	ND
	01/19/99	ND	ND	ND	ND	ND	ND
	06/26/00	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5

Sample ID	Date	TPH-g	Benzene	Toluene	Xylenes	Ethylbenzene	MTBE
MW-4	12/15/00	<500	<0.3	<0.3	<0.3	<0.6	<0.3
	02/14/01	NA	NA	NA	NA	NA	NA
	05/11/01	<50	1.2	<0.3	1.2	0.55	2.9
	07/09/01	<5	<0.5	<0.5	<0.5	<0.5	<0.5
Pre "hi-vac"	10/22/01	<5	<0.5	<0.5	<0.5	<0.5	<0.5
Post "hi-vac"	10/26/01	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/19/01	<0.5	<0.5	<0.5	<0.5	<0.5	<50
MW-5	02/14/01	5,660	76.9	21.1	312	47.3	<0.3
	05/11/01	22,000	2,600	480	2,700	220	<30
	07/09/01	72,000	3,500	1,100	22,000	4,300	2,500
Pre "hi-vac"	10/22/01	<b>26,000</b>	<b>2,800</b>	<b>980</b>	<b>950</b>	<b>6,000</b>	<b>2,300</b>
Post "hi-vac"	10/26/01	<b>17,000</b>	<b>1,200</b>	<b>470</b>	<b>440</b>	<b>2,900</b>	<b>900</b>
	12/19/01	<2,000	620	190	910	110	<20
MW-6	02/14/01	1,340	17.0	0.967	51.4	11.1	<0.3
	05/11/01	610	15	0.97	46	<0.5	<0.5
	07/09/01	2,500	130	4.7	170	53	120
Pre "hi-vac"	10/22/01	<b>280</b>	<b>18</b>	<b>1.2</b>	<b>4.7</b>	<b>6.2</b>	<b>6.3</b>
Post "hi-vac"	10/26/01	<b>3,600</b>	<b>210</b>	<b>20</b>	<b>62</b>	<b>170</b>	<b>120</b>
	12/19/01	5,300	69	5.6	17	14	<2
MW-7	02/14/01	<0.005	<0.3	<0.3	<0.3	<0.3	284
	05/11/01	<50	0.75	0.77	2.4	0.48	1.1
	07/09/01	<5	<0.5	<0.5	<0.5	<0.5	<0.5
Pre "hi-vac"	10/22/01	<5	<0.5	<0.5	<0.5	<0.5	<0.5
Post "hi-vac"	10/26/01	<b>6,000</b>	<b>170</b>	<b>550</b>	<b>120</b>	<b>110</b>	<b>970</b>
	12/19/01	<50	<0.5	<0.5	0.9	<0.5	43
MW-8	02/14/01	1,000	3.97	<0.3	1.63	3.78	620
	05/11/01	<50	<0.5	<0.5	<0.5	<0.5	4.4
	07/09/01	<5	<0.5	<0.5	<0.5	<0.5	<0.5
Pre-"hi-vac"	10/22/01	<5	<0.5	<0.5	<0.5	<0.5	<0.5

Sample ID	Date	TPH-g	Benzene	Toluene	Xylenes	Ethylbenzene	MTBE
Post "hi-vac"	10/26/01	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/19/01	<50	<0.5	<0.5	<0.5	<0.5	<0.5

TPH-g: Total Petroleum Hydrocarbons as gasoline

The current state maximum contaminant levels (MCLs) for drinking water set by the California Department of Health Services, Title 22 are as follows:

Benzene..... 1 µg/L  
 Toluene..... 2000 µg/L  
 Ethylbenzene..... 680 µg/L  
 Total Xylenes..... 1750 µg/L

## Conclusions

The groundwater sampling results continue to indicate trace to non detectable concentrations of gasoline constituents analyzed within MW-4 (upgradient well), MW-7 and MW-8 (downgradient wells). MW-7 exhibited a marked increase in gasoline-range hydrocarbons after the vacuum extraction of groundwater in October 2001; however, this appeared to be an anomaly and was proven out during the December 19, 2002 round of groundwater sampling.

MW-1, MW-2, MW-3, MW-5, and MW-6 continue to exhibit elevated concentrations for TPH-gasoline and volatile organic concentrations, however, the concentrations appear to be on a stabilizing and primarily decreasing trend. It appears that using vacuum extraction on the contaminated groundwater in MW-1 and MW-5 appears to have reduced and stabilized the groundwater plume.

Oxygenate analyses were conducted on the groundwater samples collected in December 2001. The full scan of oxygenates indicated consistent detection of MTBE in the majority of the wells, and TBA was detected in MW-1, MW-3, MW-5 and MW-6. DIPE was also detected in MW-6. Also, PCE and TCE were detected in MW-4 at increasing concentrations. The detection of PCE and TCE either indicate migration from an offsite upgradient source, or derived from onsite migration from the long term use of the property for vehicle maintenance.

The current gradient was calculated to be North 72° West and the gradient is 0.33 ft/100ft. Flow direction and gradient have remained relatively consistent with previous sampling rounds. The monitoring wells yield adequate water volume and cannot be bailed dry. Recharge was good in all eight monitoring wells.

## Recommendations

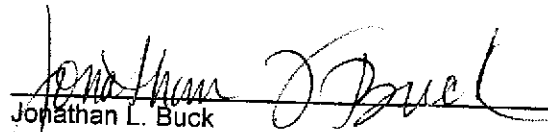
**Advanced Environmental Concepts, Inc.** recommends continued sampling of the groundwater wells for this site. Additionally, it does appear that the gasoline contamination decreased significantly using the vacuum truck extraction method. If remediation is required for this location, then AEC continues to recommend "hi-vac" as a cost-effective method. If remediation is required, AEC recommends the installation of three 4-inch diameter wells to facilitate removal of the hydrocarbon laden groundwater. The groundwater extraction wells would be placed between MW-1 and MW-5; central to MW-2 and MW-3; and proximal to MW-6.

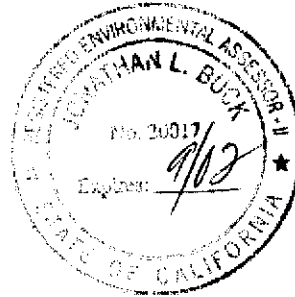
**Closing**

**Advanced Environmental Concepts, Inc.** appreciates the opportunity of providing our professional services to Mr. Warren Dodson. Should there be any questions or additional information required, please do not hesitate to contact our office at your convenience.

Respectfully yours,

**Advanced Environmental Concepts, Inc.**

  
Jonathan L. Buck  
Registered Environmental Assessor II #20017

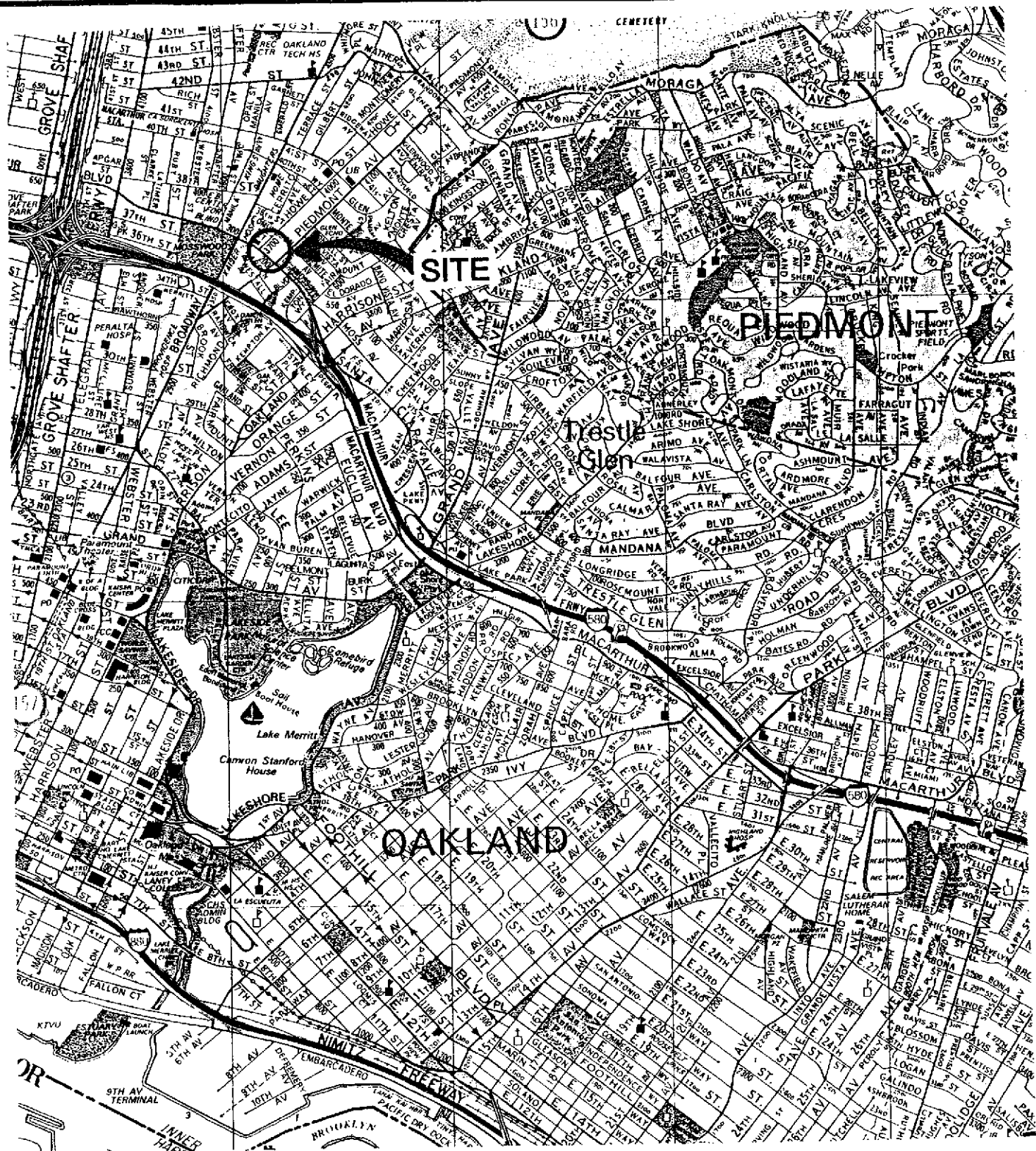


All environmental site work with which **Advanced Environmental Concepts, Inc.** was involved, was performed under my supervision to ensure proper sampling protocol and environmental assessment. This report has been technically reviewed by the undersigned.

  
Christian Bellue  
Registered Professional Engineer #C53934



Doc3011



Map Source: Thomas Maps

**- SITE AREA -**

**Prestige Products Corporation**

**240 West MacArthur Blvd.**

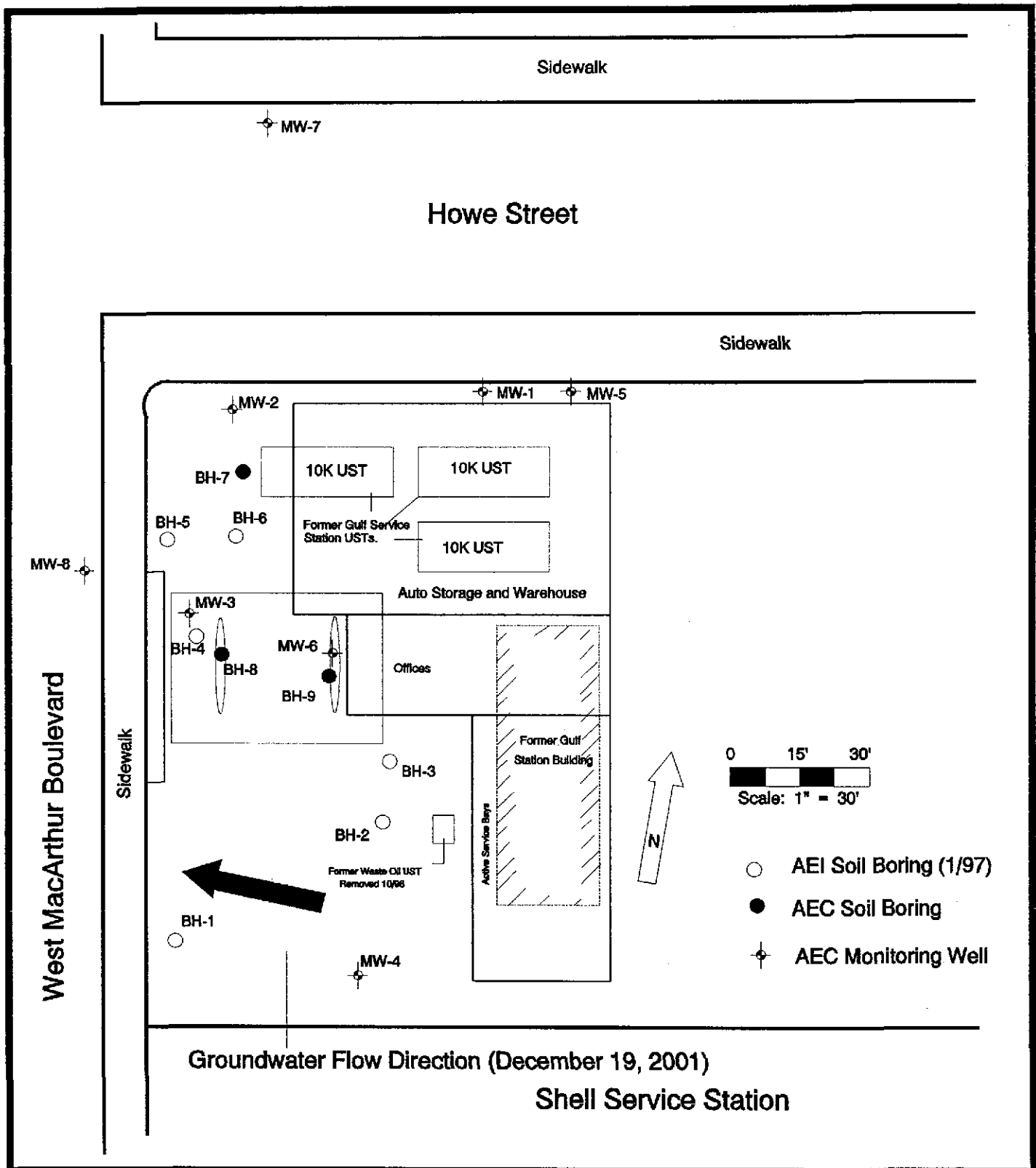
**County of Alameda - Oakland, California**

**FIGURE**

**1**

**AEC**  
 ADVANCED ENVIRONMENTAL CONCEPTS INC.  
 ADVANCED ENVIRONMENTAL CONCEPTS  
 P.O. BOX 40672 BAKERSFIELD, CA 93384

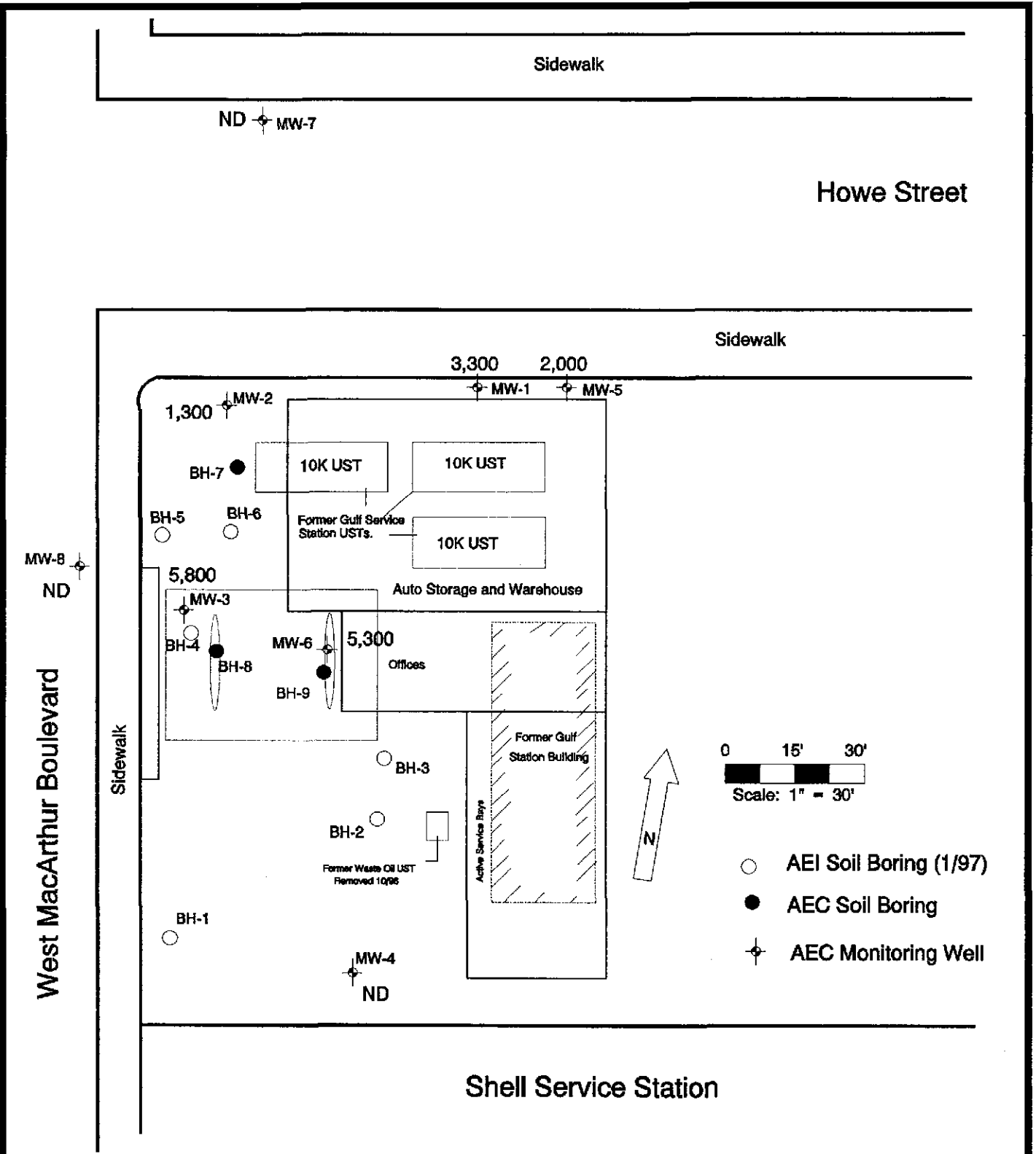




**AEC**  
 ADVANCED ENVIRONMENTAL CONCEPTS INC.  
 ADVANCED ENVIRONMENTAL CONCEPTS  
 P.O. BOX 40672 BAKERSFIELD, CA 93384

- Location Map -  
 Former Vogue Tyres Facility  
 240 West MacArthur Boulevard  
 County of Alameda • Oakland, CA

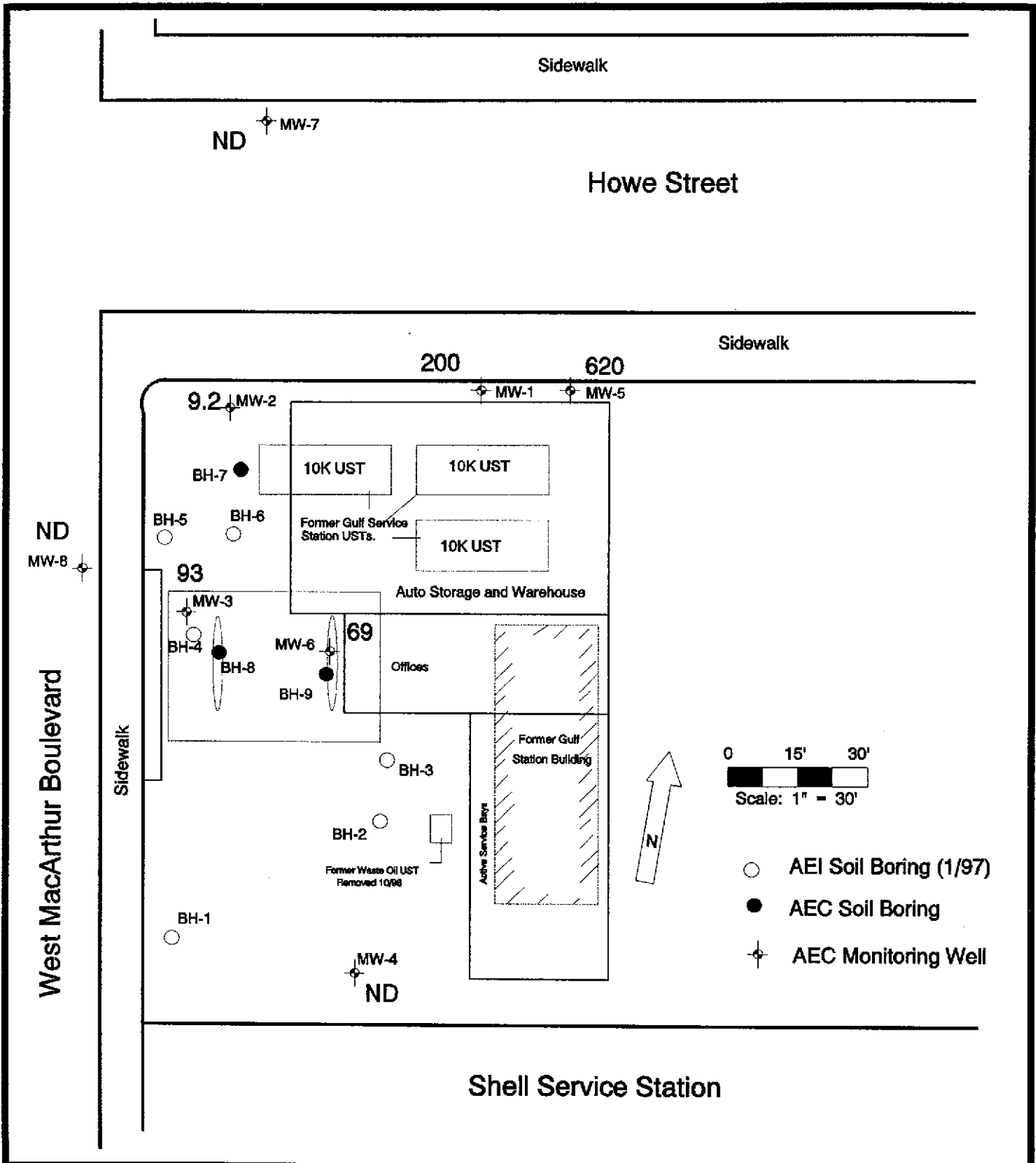
FIGURE  
 2



**AEC**  
 ADVANCED ENVIRONMENTAL CONCEPTS INC.  
 ADVANCED ENVIRONMENTAL CONCEPTS  
 P.O. BOX 40672 BAKERSFIELD, CA 93394

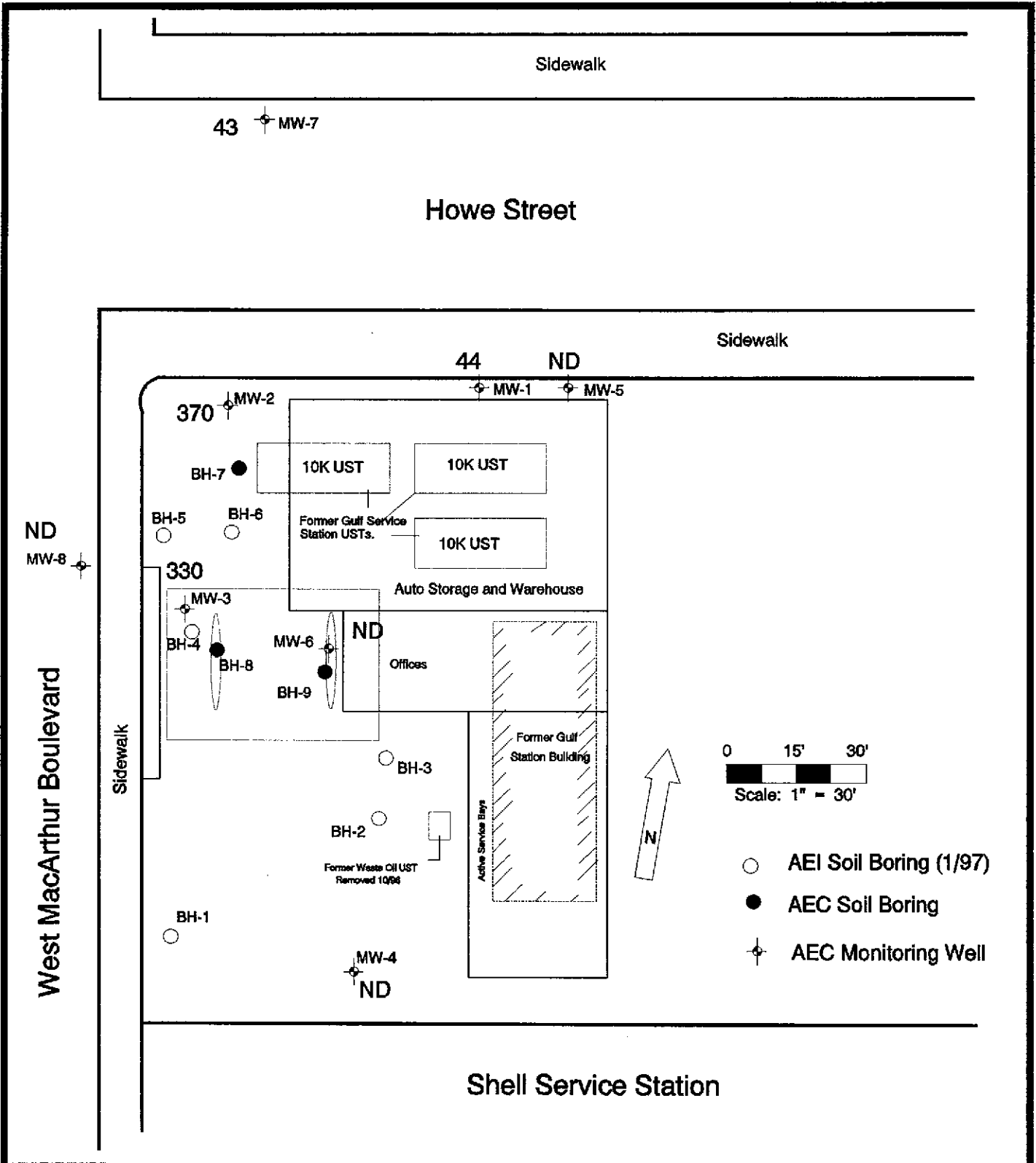
**TPH-Gasoline in Water (ppb)**  
 Former Vogue Tyres Facility  
 240 West MacArthur Boulevard  
 County of Alameda • Oakland, CA

**FIGURE**  
**3**



**Benzene in Groundwater (ppb)**  
 Former Vogue Tyres Facility  
 240 West MacArthur Boulevard  
 County of Alameda • Oakland, CA

**FIGURE**  
 4



West MacArthur Boulevard

Howe Street

Shell Service Station



**MTBE in Groundwater (ppb)**  
 Former Vogue Tyres Facility  
 240 West MacArthur Boulevard  
 County of Alameda • Oakland, CA

**FIGURE**  
**5**

"Appendix B"

**GROUNDWATER PARAMETERS**

# Groundwater Parameters

Site Name: Former Vogue Tyres  
 Location: 240 West MacArthur  
Oakland, CA

AEC P.O. #: \_\_\_\_\_  
 Project #: \_\_\_\_\_  
 Date: December 19, 2001

TIME	GALLONS PURGED	CONDUCTIVITY	TEMPERATURE	pH	TURBIDITY
<b>MONITORING WELL # <u>1</u></b>					
		1,620	58.9	7.65	14.7
<b>MONITORING WELL # <u>2</u></b>					
		1,670	60.5	7.59	10.2
<b>MONITORING WELL # <u>3</u></b>					
		1,790	60.4	7.77	18.4

**3 Casing Volumes**

4" Screen = (.66 gal/ft) ( \_\_\_\_\_ ft) = \_\_\_\_\_

2" Screen = (.17 gal/ft) ( \_\_\_\_\_ ft) = \_\_\_\_\_

MW # MW-1      Depth to Groundwater = 15.08'

Corrected Depth: 15.31'      Survey: 4.38'

MW # MW-2      Depth to Groundwater = 13.49'

Corrected Depth: 15.14'      Survey: 5.80'

MW # MW-3      Depth to Groundwater = 13.62'

Corrected Depth: 15.44'      Survey: 5.97'

# Groundwater Parameters

Site Name: Former Vogue Tyres  
 Location: 240 West MacArthur  
Oakland, CA

AEC P.O. #: \_\_\_\_\_  
 Project #: \_\_\_\_\_  
 Date: December 19, 2001

TIME	GALLONS PURGED	CONDUCTIVITY	TEMPERATURE	pH	TURBIDITY
<b>MONITORING WELL # <u>4</u></b>					
		<b>1,780</b>	<b>59.1</b>	<b>7.73</b>	<b>15.6</b>
<b>MONITORING WELL # <u>5</u></b>					
		<b>1,980</b>	<b>58.6</b>	<b>7.50</b>	<b>21.0</b>
<b>MONITORING WELL # <u>6</u></b>					
		<b>1,400</b>	<b>60.4</b>	<b>7.37</b>	<b>19.9</b>

**3 Casing Volumes**

4" Screen = (.66 gal/ft) ( \_\_\_\_\_ ft) = \_\_\_\_\_

2" Screen = (.17 gal/ft) ( \_\_\_\_\_ ft) = \_\_\_\_\_

MW # MW-4      Depth to Groundwater = 13.54'

Corrected Depth: 15.24'      Survey: 5.85'

MW # MW-5      Depth to Groundwater = 15.28'

Corrected Depth: 15.28'      Survey: 4.15'

MW # MW-6      Depth to Groundwater = 14.37'

Corrected Depth: 15.36'      Survey: 5.14'

# Groundwater Parameters

Site Name: Former Vogue Tyres  
 Location: 240 West MacArthur  
Oakland, CA

AEC P.O. #: \_\_\_\_\_  
 Project #: \_\_\_\_\_  
 Date: December 19, 2001

TIME	GALLONS PURGED	CONDUCTIVITY	TEMPERATURE	pH	TURBIDITY
	<b>MONITORING WELL # <u>7</u></b>				
		1,880	63.1	7.42	20.2
	<b>MONITORING WELL # <u>8</u></b>				
		1,920	58.6	7.21	15.4
	<b>MONITORING WELL # <u>  </u></b>				

**3 Casing Volumes**

4" Screen = (.66 gal/ft) ( \_\_\_\_\_ ft) = \_\_\_\_\_

2" Screen = (.17 gal/ft) ( \_\_\_\_\_ ft) = \_\_\_\_\_

MW # MW-7      Depth to Groundwater = 14.30'

Corrected Depth: 15.39'      Survey: 5.24'

MW # MW-8      Depth to Groundwater = 12.39'

Corrected Depth: 15.42'      Survey: 7.18'

MW # \_\_\_\_\_      Depth to Groundwater = \_\_\_\_\_

Corrected Depth: \_\_\_\_\_      Survey: \_\_\_\_\_



**Client:** John Buck  
 Advanced Environmental Concepts  
 4400 Ashe Rd., #206  
 Bakersfield, CA 93313

**Lab Number:** 26163-7  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
 MW-1  
**Analyzed:** 01/02/02  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
-------------	--------------	------------------

**VOLATILE ORGANIC COMPOUNDS/TPH**

Benzene	0.5	200.
Bromobenzene	0.5	ND
Bromochloromethane	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane	0.5	ND
n-Butylbenzene	0.5	ND
sec-Butylbenzene	0.5	2.2
tert-Butylbenzene	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	0.5	ND
2-Chloroethylvinyl ether	1.0	ND
Chloroform	0.5	4.8
Chloromethane	0.5	ND
2-Chlorotoluene	0.5	ND
4-Chlorotoluene	0.5	ND
1,2-Dibromo-3-Chloropropane	1.0	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	6.9
1,1-Dichloroethene	0.5	ND

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #2  
 26163-7.xls  
 MN/sks/pv/cc

Client: John Buck  
Advanced Environmental Concepts  
4400 Ashe Rd., #206  
Bakersfield, CA 93313

Lab Number: 26163-7  
Collected: 12/19/01  
Received: 12/21/01  
Matrix: Aqueous

Project: Vogue Tyres  
Project Number:  
Collected by: John Buck

Sample Description:  
MW-1  
Analyzed: 01/02/02  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
-------------	--------------	------------------

VOLATILE ORGANIC COMPOUNDS/TPH

cis-1,2-Dichloroethene	0.5	3.9
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	1.0
1,3-Dichloropropane	0.5	ND
2,2-Dichloropropane	0.5	ND
1,1-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Dichlorotrifluoroethane	0.5	ND
Ethylbenzene	0.5	5.7
Ethylene dibromide (EDB)	0.5	ND
Hexachlorobutadiene	0.5	ND
Isopropylbenzene	0.5	5.8
4-Isopropyltoluene	0.5	2.5
Methylene Chloride	0.5	ND
Naphthalene	0.5	6.3
n-Propylbenzene	0.5	4.5
Styrene	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	8.7
Toluene	0.5	12.
1,2,3-Trichlorobenzene	1.0	ND
1,2,4-Trichlorobenzene	1.0	ND
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	4.3

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #2  
26163-7.xls  
MN/sks/pv/ccc

Client: John Buck  
Advanced Environmental Concepts  
4400 Ashe Rd., #206  
Bakersfield, CA 93313

Lab Number: 26163-7  
Collected: 12/19/01  
Received: 12/21/01  
Matrix: Aqueous

Project: Vogue Tyres  
Project Number:  
Collected by: John Buck

Sample Description:  
MW-1  
Analyzed: 01/02/02  
Method: See Below

CONSTITUENT	PQL*	RESULT**
	ug/L	ug/L

VOLATILE ORGANIC COMPOUNDS/TPH

Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.5	ND
1,2,4-Trimethylbenzene	0.5	45.
1,3,5-Trimethylbenzene	0.5	8.7
Vinyl Chloride	0.5	ND
Xylenes	0.5	43.
t-Butyl Alcohol (TBA)	5.0	94.
Diisopropylether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
t-Amyl Methyl Ether (TAME)	0.5	ND
Methyl t-Butyl Ether (MTBE)	0.5	44.
Total Petroleum Hydrocarbons	50.	3300.
Percent Surrogate Recovery		100

ZyMaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,  
ZyMaX envirotechnology, inc.



For Michael Ng  
Assistant Lab Director

MSD #2  
26163-7.xls  
MN/sks/pv/cc

Client: John Buck  
 Advanced Environmental Concepts  
 4400 Ashe Rd., #206  
 Bakersfield, CA 93313

Lab Number: 26163-4  
 Collected: 12/19/01  
 Received: 12/21/01  
 Matrix: Aqueous

Project: Vogue Tyres  
 Project Number:  
 Collected by: John Buck

Sample Description:  
 MW-2  
 Analyzed: 01/02/02  
 Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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VOLATILE ORGANIC COMPOUNDS/TPH

Benzene	2.0	9.2
Bromobenzene	2.0	ND
Bromochloromethane	2.0	ND
Bromodichloromethane	2.0	ND
Bromoform	2.0	ND
Bromomethane	2.0	ND
n-Butylbenzene	2.0	ND
sec-Butylbenzene	2.0	6.0
tert-Butylbenzene	2.0	ND
Carbon Tetrachloride	2.0	ND
Chlorobenzene	2.0	ND
Chloroethane	2.0	ND
2-Chloroethylvinyl ether	4.0	ND
Chloroform	2.0	ND
Chloromethane	2.0	ND
2-Chlorotoluene	2.0	ND
4-Chlorotoluene	2.0	ND
1,2-Dibromo-3-Chloropropane	4.0	ND
Dibromochloromethane	2.0	ND
Dibromomethane	2.0	ND
1,2-Dichlorobenzene	2.0	ND
1,3-Dichlorobenzene	2.0	ND
1,4-Dichlorobenzene	2.0	ND
Dichlorodifluoromethane	2.0	ND
1,1-Dichloroethane	2.0	ND
1,2-Dichloroethane (EDC)	2.0	ND
1,1-Dichloroethene	2.0	ND

ZyMaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #6  
 26163-4.xls  
 MN/sks/pv/ccc

**Client:** John Buck  
Advanced Environmental Concepts  
4400 Ashe Rd., #206  
Bakersfield, CA 93313

**Lab Number:** 26163-4  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
**Analyzed:** MW-2  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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**VOLATILE ORGANIC COMPOUNDS/TPH**

cis-1,2-Dichloroethene	2.0	78.
trans-1,2-Dichloroethene	2.0	ND
1,2-Dichloropropane	2.0	ND
1,3-Dichloropropane	2.0	ND
2,2-Dichloropropane	2.0	ND
1,1-Dichloropropene	2.0	ND
cis-1,3-Dichloropropene	2.0	ND
trans-1,3-Dichloropropene	2.0	ND
Dichlorotrifluoroethane	2.0	ND
Ethylbenzene	2.0	ND
Ethylene dibromide (EDB)	2.0	ND
Hexachlorobutadiene	2.0	ND
Isopropylbenzene	2.0	2.7
4-Isopropyltoluene	2.0	ND
Methylene Chloride	2.0	ND
Naphthalene	2.0	ND
n-Propylbenzene	2.0	ND
Styrene	2.0	ND
1,1,1,2-Tetrachloroethane	2.0	ND
1,1,2,2-Tetrachloroethane	2.0	ND
Tetrachloroethene (PCE)	2.0	ND
Toluene	2.0	ND
1,2,3-Trichlorobenzene	4.0	ND
1,2,4-Trichlorobenzene	4.0	ND
1,1,1-Trichloroethane (TCA)	2.0	ND
1,1,2-Trichloroethane	2.0	ND
Trichloroethene (TCE)	2.0	ND

ZyMaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #6  
26163-4.xls  
MN/sks/pv/ccc

**Client:** John Buck  
Advanced Environmental Concepts  
4400 Ashe Rd., #206  
Bakersfield, CA 93313

**Lab Number:** 26163-4  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
MW-2  
**Analyzed:** 01/02/02  
**Method:** See Below

CONSTITUENT	PQL*	RESULT**
	ug/L	ug/L

**VOLATILE ORGANIC COMPOUNDS/TPH**

Trichlorofluoromethane (freon 11)	2.0	ND
1,2,3-Trichloropropane	2.0	ND
1,1,2-Trichlorotrifluoroethane (Freon 113)	2.0	ND
1,2,4-Trimethylbenzene	2.0	ND
1,3,5-Trimethylbenzene	2.0	ND
Vinyl Chloride	2.0	ND
Xylenes	2.0	ND
t-Butyl Alcohol (TBA)	20.	130.
Diisopropylether (DIPE)	2.0	ND
Ethyl-t-Butyl Ether (ETBE)	2.0	ND
t-Amyl Methyl Ether (TAME)	2.0	ND
Methyl t-Butyl Ether (MTBE)	2.0	370.
Total Petroleum Hydrocarbons	200.	1300.
Percent Surrogate Recovery		100

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.



For Michael Ng  
Assistant Lab Director

MSD #6  
26163-4.xls  
MN/sks/pv/ccc

**Client:** John Buck  
 Advanced Environmental Concepts  
 4400 Ashe Rd., #206  
 Bakersfield, CA 93313

**Lab Number:** 26163-5  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
 MW-3  
**Analyzed:** 12/31/01  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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VOLATILE ORGANIC COMPOUNDS/TPH

Benzene	20.	93.
Bromobenzene	20.	ND
Bromochloromethane	20.	ND
Bromodichloromethane	20.	ND
Bromoform	20.	ND
Bromomethane	20.	ND
n-Butylbenzene	20.	ND
sec-Butylbenzene	20.	ND
tert-Butylbenzene	20.	ND
Carbon Tetrachloride	20.	ND
Chlorobenzene	20.	ND
Chloroethane	20.	ND
2-Chloroethylvinyl ether	40.	ND
Chloroform	20.	ND
Chloromethane	20.	ND
2-Chlorotoluene	20.	ND
4-Chlorotoluene	20.	ND
1,2-Dibromo-3-Chloropropane	40.	ND
Dibromochloromethane	20.	ND
Dibromomethane	20.	ND
1,2-Dichlorobenzene	20.	ND
1,3-Dichlorobenzene	20.	ND
1,4-Dichlorobenzene	20.	ND
Dichlorodifluoromethane	20.	ND
1,1-Dichloroethane	20.	ND
1,2-Dichloroethane (EDC)	20.	ND
1,1-Dichloroethene	20.	ND

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #2  
 26163-5.xls  
 MN/sks/pv/bm

**Client:** John Buck  
Advanced Environmental Concepts  
4400 Ashe Rd., #206  
Bakersfield, CA 93313

**Lab Number:** 26163-5  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
MW-3  
**Analyzed:** 12/31/01  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
-------------	--------------	------------------

**VOLATILE ORGANIC COMPOUNDS/TPH**

cis-1,2-Dichloroethene	20.	63.
trans-1,2-Dichloroethene	20.	ND
1,2-Dichloropropane	20.	ND
1,3-Dichloropropane	20.	ND
2,2-Dichloropropane	20.	ND
1,1-Dichloropropene	20.	ND
cis-1,3-Dichloropropene	20.	ND
trans-1,3-Dichloropropene	20.	ND
Dichlorotrifluoroethane	20.	ND
Ethylbenzene	20.	31.
Ethylene dibromide (EDB)	20.	ND
Hexachlorobutadiene	20.	ND
Isopropylbenzene	20.	32.
4-Isopropyltoluene	20.	ND
Methylene Chloride	20.	ND
Naphthalene	20.	ND
n-Propylbenzene	20.	ND
Styrene	20.	ND
1,1,1,2-Tetrachloroethane	20.	ND
1,1,2,2-Tetrachloroethane	20.	ND
Tetrachloroethene (PCE)	20.	ND
Toluene	20.	ND
1,2,3-Trichlorobenzene	40.	ND
1,2,4-Trichlorobenzene	40.	ND
1,1,1-Trichloroethane (TCA)	20.	ND
1,1,2-Trichloroethane	20.	ND
Trichloroethene (TCE)	20.	ND

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #2  
26163-5.xls  
MN/sks/pv/bm



**Client:** John Buck  
 Advanced Environmental Concepts  
 4400 Ashe Rd., #206  
 Bakersfield, CA 93313

**Lab Number:** 26163-5  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
 MW-3  
**Analyzed:** 12/31/01  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
-------------	--------------	------------------

**VOLATILE ORGANIC COMPOUNDS/TPH**

Trichlorofluoromethane (freon 11)	20.	ND
1,2,3-Trichloropropane	20.	ND
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.	ND
1,2,4-Trimethylbenzene	20.	ND
1,3,5-Trimethylbenzene	20.	ND
Vinyl Chloride	20.	ND
Xylenes	20.	ND
t-Butyl Alcohol (TBA)	200.	330.
Diisopropylether (DIPE)	20.	ND
Ethyl-t-Butyl Ether (ETBE)	20.	ND
t-Amyl Methyl Ether (TAME)	20.	ND
Methyl t-Butyl Ether (MTBE)	20.	330.
Total Petroleum Hydrocarbons	2000.	5800.
Percent Surrogate Recovery		101

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,  
 ZymaX envirotechnology, inc.



For Michael Ng  
 Assistant Lab Director

MSD #2  
 26163-5.xls  
 MN/sks/pv/bm

**Client:** John Buck  
Advanced Environmental Concepts  
4400 Ashe Rd., #206  
Bakersfield, CA 93313

**Lab Number:** 26163-1  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
MW-4  
**Analyzed:** 12/31/01  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
-------------	--------------	------------------

VOLATILE ORGANIC COMPOUNDS/TPH

Benzene	0.5	ND
Bromobenzene	0.5	ND
Bromochloromethane	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane	0.5	ND
n-Butylbenzene	0.5	ND
sec-Butylbenzene	0.5	ND
tert-Butylbenzene	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	0.5	ND
2-Chloroethylvinyl ether	1.0	ND
Chloroform	0.5	2.8
Chloromethane	0.5	ND
2-Chlorotoluene	0.5	ND
4-Chlorotoluene	0.5	ND
1,2-Dibromo-3-Chloropropane	1.0	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	ND
1,1-Dichloroethene	0.5	ND

ZyMaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #2  
26163-1.xls  
MN/sks/pv/ccc/bm

**Client:** John Buck  
 Advanced Environmental Concepts  
 4400 Ashe Rd., #206  
 Bakersfield, CA 93313

**Lab Number:** 26163-1  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
 MW-4  
**Analyzed:** 12/31/01  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
-------------	--------------	------------------

VOLATILE ORGANIC COMPOUNDS/TPH

cis-1,2-Dichloroethene	0.5	7.0
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
1,3-Dichloropropane	0.5	ND
2,2-Dichloropropane	0.5	ND
1,1-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Dichlorotrifluoroethane	0.5	ND
Ethylbenzene	0.5	ND
Ethylene dibromide (EDB)	0.5	ND
Hexachlorobutadiene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
Methylene Chloride	0.5	ND
Naphthalene	0.5	ND
n-Propylbenzene	0.5	ND
Styrene	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	18.
Toluene	0.5	ND
1,2,3-Trichlorobenzene	1.0	ND
1,2,4-Trichlorobenzene	1.0	ND
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	3.7

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #2  
 26163-1.xls  
 MN/sks/pv/ccc/bm

Client: John Buck  
Advanced Environmental Concepts  
4400 Ashe Rd., #206  
Bakersfield, CA 93313

Lab Number: 26163-1  
Collected: 12/19/01  
Received: 12/21/01  
Matrix: Aqueous

Project: Vogue Tyres  
Project Number:  
Collected by: John Buck

Sample Description:  
MW-4  
Analyzed: 12/31/01  
Method: See Below

CONSTITUENT	PQL*	RESULT**
	ug/L	ug/L

**VOLATILE ORGANIC COMPOUNDS/TPH**

Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.5	ND
1,2,4-Trimethylbenzene	0.5	ND
1,3,5-Trimethylbenzene	0.5	ND
Vinyl Chloride	0.5	ND
Xylenes	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropylether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
t-Amyl Methyl Ether (TAME)	0.5	ND
Methyl t-Butyl Ether (MTBE)	0.5	4.6
Total Petroleum Hydrocarbons	50.	ND
Percent Surrogate Recovery		101

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.



For Michael Ng  
Assistant Lab Director

MSD #2  
26163-1.xls  
MN/sks/pv/cc/bm

**Client:** John Buck  
 Advanced Environmental Concepts  
 4400 Ashe Rd., #206  
 Bakersfield, CA 93313

**Lab Number:** 26163-8  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
 MW-5  
**Analyzed:** 01/03/02  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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**VOLATILE ORGANIC COMPOUNDS/TPH**

Benzene	5.0	620.
Bromobenzene	5.0	ND
Bromochloromethane	5.0	ND
Bromodichloromethane	5.0	ND
Bromoform	5.0	ND
Bromomethane	5.0	ND
n-Butylbenzene	5.0	ND
sec-Butylbenzene	5.0	7.4
tert-Butylbenzene	5.0	ND
Carbon Tetrachloride	5.0	ND
Chlorobenzene	5.0	ND
Chloroethane	5.0	ND
2-Chloroethylvinyl ether	10.	ND
Chloroform	5.0	ND
Chloromethane	5.0	ND
2-Chlorotoluene	5.0	ND
4-Chlorotoluene	5.0	ND
1,2-Dibromo-3-Chloropropane	10.	ND
Dibromochloromethane	5.0	ND
Dibromomethane	5.0	ND
1,2-Dichlorobenzene	5.0	ND
1,3-Dichlorobenzene	5.0	ND
1,4-Dichlorobenzene	5.0	ND
Dichlorodifluoromethane	5.0	ND
1,1-Dichloroethane	5.0	ND
1,2-Dichloroethane (EDC)	5.0	9.4
1,1-Dichloroethene	5.0	ND

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #2  
 26163-8.xls  
 MN/sks/pv/ccc/bm

**Client:** John Buck  
 Advanced Environmental Concepts  
 4400 Ashe Rd., #206  
 Bakersfield, CA 93313

**Lab Number:** 26163-8  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
 MW-5  
**Analyzed:** 01/03/02  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
-------------	--------------	------------------

**VOLATILE ORGANIC COMPOUNDS/TPH**

cis-1,2-Dichloroethene	5.0	ND
trans-1,2-Dichloroethene	5.0	ND
1,2-Dichloropropane	5.0	ND
1,3-Dichloropropane	5.0	ND
2,2-Dichloropropane	5.0	ND
1,1-Dichloropropene	5.0	ND
cis-1,3-Dichloropropene	5.0	ND
trans-1,3-Dichloropropene	5.0	ND
Dichlorotrifluoroethane	5.0	ND
Ethylbenzene	5.0	98.
Ethylene dibromide (EDB)	5.0	ND
Hexachlorobutadiene	5.0	ND
Isopropylbenzene	5.0	27.
4-Isopropyltoluene	5.0	16.
Methylene Chloride	5.0	ND
Naphthalene	5.0	140.
n-Propylbenzene	5.0	33.
Styrene	5.0	ND
1,1,1,2-Tetrachloroethane	5.0	ND
1,1,2,2-Tetrachloroethane	5.0	ND
Tetrachloroethene (PCE)	5.0	ND
Toluene	5.0	160.
1,2,3-Trichlorobenzene	10.	ND
1,2,4-Trichlorobenzene	10.	ND
1,1,1-Trichloroethane (TCA)	5.0	ND
1,1,2-Trichloroethane	5.0	ND
Trichloroethene (TCE)	5.0	ND

ZyMaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #2  
 26163-8.xls  
 MN/sks/pv/cc/bm

Client: John Buck  
 Advanced Environmental Concepts  
 4400 Ashe Rd., #206  
 Bakersfield, CA 93313

Lab Number: 26163-8  
 Collected: 12/19/01  
 Received: 12/21/01  
 Matrix: Aqueous

Project: Vogue Tyres  
 Project Number:  
 Collected by: John Buck

Sample Description:  
 MW-5  
 Analyzed: 01/03/02  
 Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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**VOLATILE ORGANIC COMPOUNDS/TPH**

Trichlorofluoromethane (freon 11)	5.0	ND
1,2,3-Trichloropropane	5.0	ND
1,1,2-Trichlorotrifluoroethane (Freon 113)	5.0	ND
1,2,4-Trimethylbenzene	5.0	450.
1,3,5-Trimethylbenzene	5.0	130.
Vinyl Chloride	5.0	ND
Xylenes	5.0	730.
t-Butyl Alcohol (TBA)	50.	93.
Diispropylether (DIPE)	5.0	ND
Ethyl-t-Butyl Ether (ETBE)	5.0	ND
t-Amyl Methyl Ether (TAME)	5.0	ND
Methyl t-Butyl Ether (MTBE)	5.0	12.
Total Petroleum Hydrocarbons	500.	11000.
Percent Surrogate Recovery		104

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,  
 ZymaX envirotechnology, inc.



Michael Ng  
 Assistant Lab Director

MSD #2  
 26163-8.xls  
 MN/sks/pv/ccc/bm

Client: John Buck  
Advanced Environmental Concepts  
4400 Ashe Rd., #206  
Bakersfield, CA 93313

Lab Number: 26163-6  
Collected: 12/19/01  
Received: 12/21/01  
Matrix: Aqueous

Project: Vogue Tyres  
Project Number:  
Collected by: John Buck

Sample Description:  
MW-6  
Analyzed: 01/02/02  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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VOLATILE ORGANIC COMPOUNDS/TPH

Benzene	2.0	69.
Bromobenzene	2.0	ND
Bromochloromethane	2.0	ND
Bromodichloromethane	2.0	ND
Bromoform	2.0	ND
Bromomethane	2.0	ND
n-Butylbenzene	2.0	ND
sec-Butylbenzene	2.0	9.3
tert-Butylbenzene	2.0	ND
Carbon Tetrachloride	2.0	ND
Chlorobenzene	2.0	ND
Chloroethane	2.0	ND
2-Chloroethylvinyl ether	4.0	ND
Chloroform	2.0	13.
Chloromethane	2.0	ND
2-Chlorotoluene	2.0	ND
4-Chlorotoluene	2.0	ND
1,2-Dibromo-3-Chloropropane	4.0	ND
Dibromochloromethane	2.0	ND
Dibromomethane	2.0	ND
1,2-Dichlorobenzene	2.0	ND
1,3-Dichlorobenzene	2.0	ND
1,4-Dichlorobenzene	2.0	ND
Dichlorodifluoromethane	2.0	ND
1,1-Dichloroethane	2.0	ND
1,2-Dichloroethane (EDC)	2.0	59.
1,1-Dichloroethene	2.0	ND

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #2  
26163-6.xls  
MN/sks/pv/cc



Client: John Buck  
Advanced Environmental Concepts  
4400 Ashe Rd., #206  
Bakersfield, CA 93313

Lab Number: 26163-6  
Collected: 12/19/01  
Received: 12/21/01  
Matrix: Aqueous

Project: Vogue Tyres  
Project Number:  
Collected by: John Buck

Sample Description:  
MW-6  
Analyzed: 01/02/02  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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**VOLATILE ORGANIC COMPOUNDS/TPH**

cis-1,2-Dichloroethene	2.0	ND
trans-1,2-Dichloroethene	2.0	ND
1,2-Dichloropropane	2.0	10.
1,3-Dichloropropane	2.0	ND
2,2-Dichloropropane	2.0	ND
1,1-Dichloropropene	2.0	ND
cis-1,3-Dichloropropene	2.0	ND
trans-1,3-Dichloropropene	2.0	ND
Dichlorotrifluoroethane	2.0	ND
Ethylbenzene	2.0	14.
Ethylene dibromide (EDB)	2.0	ND
Hexachlorobutadiene	2.0	ND
Isopropylbenzene	2.0	32.
4-Isopropyltoluene	2.0	4.0
Methylene Chloride	2.0	ND
Naphthalene	2.0	19.
n-Propylbenzene	2.0	17.
Styrene	2.0	ND
1,1,1,2-Tetrachloroethane	2.0	ND
1,1,2,2-Tetrachloroethane	2.0	ND
Tetrachloroethene (PCE)	2.0	ND
Toluene	2.0	5.6
1,2,3-Trichlorobenzene	4.0	ND
1,2,4-Trichlorobenzene	4.0	ND
1,1,1-Trichloroethane (TCA)	2.0	ND
1,1,2-Trichloroethane	2.0	ND
Trichloroethene (TCE)	2.0	ND

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #2  
26163-6.xls  
MN/sks/pv/cc

**Client:** John Buck  
Advanced Environmental Concepts  
4400 Ashe Rd., #206  
Bakersfield, CA 93313

**Lab Number:** 26163-6  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
MW-6  
**Analyzed:** 01/02/02  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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**VOLATILE ORGANIC COMPOUNDS/TPH**

Trichlorofluoromethane (freon 11)	2.0	ND
1,2,3-Trichloropropane	2.0	ND
1,1,2-Trichlorotrifluoroethane (Freon 113)	2.0	ND
1,2,4-Trimethylbenzene	2.0	49.
1,3,5-Trimethylbenzene	2.0	ND
Vinyl Chloride	2.0	ND
Xylenes	2.0	17.
t-Butyl Alcohol (TBA)	20.	280.
Diisopropylether (DIPE)	2.0	6.3
Ethyl-t-Butyl Ether (ETBE)	2.0	ND
t-Amyl Methyl Ether (TAME)	2.0	ND
Methyl t-Butyl Ether (MTBE)	2.0	ND
Total Petroleum Hydrocarbons	200.	5300.
Percent Surrogate Recovery		103

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.

*Michael Ng*  
For Michael Ng  
Assistant Lab Director

MSD #2  
26163-6.xls  
MN/sks/pv/ccc

**Client:** John Buck  
 Advanced Environmental Concepts  
 4400 Ashe Rd., #206  
 Bakersfield, CA 93313

**Lab Number:** 26163-3  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
 MW-7  
**Analyzed:** 12/31/01  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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VOLATILE ORGANIC COMPOUNDS/TPH

Benzene	0.5	ND
Bromobenzene	0.5	ND
Bromochloromethane	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane	0.5	ND
n-Butylbenzene	0.5	ND
sec-Butylbenzene	0.5	ND
tert-Butylbenzene	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	0.5	ND
2-Chloroethylvinyl ether	1.0	ND
Chloroform	0.5	ND
Chloromethane	0.5	ND
2-Chlorotoluene	0.5	ND
4-Chlorotoluene	0.5	ND
1,2-Dibromo-3-Chloropropane	1.0	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	ND
1,1-Dichloroethene	0.5	ND

ZyMaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #2  
 26163-3.xls  
 MN/sks/pv/cc/bm

**Client:** John Buck  
 Advanced Environmental Concepts  
 4400 Ashe Rd., #206  
 Bakersfield, CA 93313

**Lab Number:** 26163-3  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
 MW-7  
**Analyzed:** 12/31/01  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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**VOLATILE ORGANIC COMPOUNDS/TPH**

cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
1,3-Dichloropropane	0.5	ND
2,2-Dichloropropane	0.5	ND
1,1-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Dichlorotrifluoroethane	0.5	ND
Ethylbenzene	0.5	ND
Ethylene dibromide (EDB)	0.5	ND
Hexachlorobutadiene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
Methylene Chloride	0.5	ND
Naphthalene	0.5	ND
n-Propylbenzene	0.5	ND
Styrene	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	0.5
Toluene	0.5	ND
1,2,3-Trichlorobenzene	1.0	ND
1,2,4-Trichlorobenzene	1.0	ND
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	ND

ZyMaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #2

26163-3.xls

MN/sks/pv/ccc/bm

**Client:** John Buck  
Advanced Environmental Concepts  
4400 Ashe Rd., #206  
Bakersfield, CA 93313

**Lab Number:** 26163-3  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
MW-7  
**Analyzed:** 12/31/01  
**Method:** See Below

CONSTITUENT	PQL*	RESULT**
	ug/L	ug/L

**VOLATILE ORGANIC COMPOUNDS/TPH**

Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.5	ND
1,2,4-Trimethylbenzene	0.5	ND
1,3,5-Trimethylbenzene	0.5	ND
Vinyl Chloride	0.5	ND
Xylenes	0.5	0.9
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropylether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
t-Amyl Methyl Ether (TAME)	0.5	ND
Methyl t-Butyl Ether (MTBE)	0.5	43.
Total Petroleum Hydrocarbons	50.	ND
Percent Surrogate Recovery		101

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.



For Michael Ng  
Assistant Lab Director

MSD #2  
26163-3.xls  
MN/sks/pv/ccc/bm

Client: John Buck  
Advanced Environmental Concepts  
4400 Ashe Rd., #206  
Bakersfield, CA 93313

Lab Number: 26163-2  
Collected: 12/19/01  
Received: 12/21/01  
Matrix: Aqueous

Project: Vogue Tyres  
Project Number:  
Collected by: John Buck

Sample Description:  
MW-8  
Analyzed: 12/31/01  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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VOLATILE ORGANIC COMPOUNDS/TPH

Benzene	0.5	ND
Bromobenzene	0.5	ND
Bromochloromethane	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane	0.5	ND
n-Butylbenzene	0.5	ND
sec-Butylbenzene	0.5	ND
tert-Butylbenzene	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	0.5	ND
2-Chloroethylvinyl ether	1.0	ND
Chloroform	0.5	ND
Chloromethane	0.5	ND
2-Chlorotoluene	0.5	ND
4-Chlorotoluene	0.5	ND
1,2-Dibromo-3-Chloropropane	1.0	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	ND
1,1-Dichloroethene	0.5	ND

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #2  
26163-2.xls  
MN/sks/pv/ccc/bm

**Client:** John Buck  
Advanced Environmental Concepts  
4400 Ashe Rd., #206  
Bakersfield, CA 93313

**Lab Number:** 26163-2  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
MW-8  
**Analyzed:** 12/31/01  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
-------------	--------------	------------------

**VOLATILE ORGANIC COMPOUNDS/TPH**

cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
1,3-Dichloropropane	0.5	ND
2,2-Dichloropropane	0.5	ND
1,1-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Dichlorotrifluoroethane	0.5	ND
Ethylbenzene	0.5	ND
Ethylene dibromide (EDB)	0.5	ND
Hexachlorobutadiene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
Methylene Chloride	0.5	ND
Naphthalene	0.5	ND
n-Propylbenzene	0.5	ND
Styrene	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	ND
Toluene	0.5	ND
1,2,3-Trichlorobenzene	1.0	ND
1,2,4-Trichlorobenzene	1.0	ND
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	ND

ZyMaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

MSD #2  
26163-2.xls  
MN/sks/pv/ccc/bm

**Client:** John Buck  
Advanced Environmental Concepts  
4400 Ashe Rd., #206  
Bakersfield, CA 93313

**Lab Number:** 26163-2  
**Collected:** 12/19/01  
**Received:** 12/21/01  
**Matrix:** Aqueous

**Project:** Vogue Tyres  
**Project Number:**  
**Collected by:** John Buck

**Sample Description:**  
MW-8  
**Analyzed:** 12/31/01  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
-------------	--------------	------------------

**VOLATILE ORGANIC COMPOUNDS/TPH**

Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.5	ND
1,2,4-Trimethylbenzene	0.5	ND
1,3,5-Trimethylbenzene	0.5	ND
Vinyl Chloride	0.5	ND
Xylenes	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diispropylether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
t-Amyl Methyl Ether (TAME)	0.5	ND
Methyl t-Butyl Ether (MTBE)	0.5	ND
Total Petroleum Hydrocarbons	50.	ND
Percent Surrogate Recovery		99

ZyMaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,  
ZyMaX envirotechnology, inc.




For Michael Ng  
Assistant Lab Director

MSD #2  
26163-2.xls  
MN/sks/pv/cc/bm



# CHAIN-OF-CUSTODY RECORD

Client <b>AEC</b>		Date <b>12/19/01</b>		Analysis Requested								LAB Project #	
Project Name <b>WGNK Tyres</b>		Client/Project#										Laboratory Sample Number	
Project Address <b>245 W MacArthur</b>		Turn Around Requested:		TPH-g 8260B		Lab Use Only. Sample Condition as received:							
Sampler's Signature <b>Janet D. Buel</b>		<input type="checkbox"/> 24-Hour-Rush <input type="checkbox"/> 48-Hour-Rush <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Mobile Lab						Chilled <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Project Address <b>OAKLAND, CA</b>										Container / Comments			
Sample	Sample Location	Date	Time	Laboratory Sample Number	Sample Matrix: Soil(S) Sludge(SL), Aqueous(A)	TPH-g	8260B	Number of Containers	Container / Comments				
MW-4		12/19/01		26163-1	A	/	/	2					
MW-8				2	A	/	/	2					
MW-7				3	A	/	/	2					
MW-2				4	A	/	/	2					
MW-3				5	A	/	/	2					
MW-6				6	A	/	/	2					
MW-1				7	A	/	/	2					
MW-5		12/19/01		8	A	/	/	2					
1 Relinquished by: (Signature) <b>Janet D. Buel</b>		Date <b>12/21/01</b>		2 Received by: (Signature)				Date <b>16</b>		Total Number of Containers			
Company: <b>AEC</b>		Time <b>1600</b>		Company:				Time					
3 Relinquished by: (Signature)		Date		4 Received by Laboratory: (Signature)				Date <b>12/21/01</b>		 *ADVANCED ENVIRONMENTAL CONCEPTS INC.*			
Company:		Time		Company: <b>24m a</b>				Time <b>1600</b>					