



November 25, 2002

Alameda County
DEC 04 2002
Environmental Health

Mr. Don Hwang
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Regarding: **4th Quarter Groundwater Sampling Report (2002)**
Former Vogue Tyres Facility
240 West MacArthur Boulevard
Oakland, California

Dear Mr. Hwang,

Please find enclosed the Fourth Quarter Groundwater Sampling Report prepared by **Advanced Environmental Concepts, Inc. (AEC)** for the above referenced project/location.

Should you have any questions or require clarification on any aspects of the enclosed, please do not hesitate to contact our office at (661) 831-1646.

Respectfully yours,

Advanced Environmental Concepts, Inc.



Debbie Irwin
Office Administrator

Attachments: Reports (1)

cc: Mr. Warren Dodson
Mr. Glen Poy-wing

• ENVIRONMENTAL CONCEPTS WITH DESIGN IN MIND •



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Alameda County
DEC 04 2002
Environmental Health

November 11, 2002

Mr. Warren Dodson
Dodson Ltd.
P.O. Box 67809
Los Angeles, California 90067-0809

Regarding: **4th Quarter Groundwater Sampling (2002)**
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).

1.0 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 $\mu\text{g}/\text{kg}$.

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 $\mu\text{g}/\text{L}$ 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.

In addition to the quarterly groundwater sampling AEC conducted a "hi-vac" feasibility study from October 22-26, 2001. The "hi-vac" study consisted of removing impacted soil vapor and groundwater primarily from monitoring wells MW-1, MW-2, MW-3, and MW-5.

2.0 QUARTERLY 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 October 2002 samples were analyzed by Associated Laboratories, a California-certified laboratory in Orange, California, for total petroleum hydrocarbons as gasoline (TPH-g), volatile aromatics (BTXE), and MTBE by EPA methods 8015-modified and 8021B, 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	20,000	3,700	560	4,600	410	2,600
Post "hi-vac"	10/26/01	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5
	12/19/01	3,300	200	12	43	5.7	44.
	03/18/02	4,600	820	4.4	300	100	210
	05/24/02	1,600	100	23	190	20	7.7
	07/12/02	2,300	250	15	180	13	180
	10/25/02	1,820	222	16	59	<0.3	58
MW-2	08/08/97	5,350	108	36	144	33	NA
	12/3/97	1,600	73	ND	ND	ND	NA

Sample ID	Date	TPH-g	Benzene	Toluene	Xylenes	Ethylbenzene	MTBE
MW-2	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
	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"	10/22/02	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
	03/18/02	1,300	76	3.8	15	21	460
	05/24/02	320	12	1.1	4.8	4.6	160
	07/12/02	1,300	130	1.0	5.6	9.4	420
	10/25/02	1,060	12	2.2	3.5	4.2	270
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

Sample ID	Date	TPH-g	Benzene	Toluene	Xylenes	Ethylbenzene	MTBE
MW-3	12/19/01	5,800	93	<20	<20	31	330
	03/18/02	1,900	220	16	24	31	400
	05/24/02	1,600	110	3.4	14	29	320
	07/12/02	1,900	210	27	55	30	200
	10/22/02	3,030	178	19	36	6.2	178
	10/25/02	1,970	96	18	52	14	226
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
	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
	03/18/02	<50	<1	<1	<1	<1	<1
	05/24/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	07/12/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	10/25/02	<100	<0.3	<0.3	<0.6	<0.3	<5
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	26,000	2,800	980	950	6,000	2,300
Post "hi-vac"	10/26/01	17,000	1,200	470	440	2,900	900

Sample ID	Date	TPH-g	Benzene	Toluene	Xylenes	Ethylbenzene	MTBE
MW-5	12/19/01	<2,000	620	190	910	110	<20
	03/18/02	8,800	1,200	72	350	7.4	1,200
	05/24/02	2,000	150	38	260	21	13
	07/12/02	4,200	480	68	280	29	450
	10/25/02	5,370	236	45	39	23	135
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	280	18	1.2	4.7	6.2	6
Post "hi-vac"	10/26/01	3,600	210	20	62	170	120
	12/19/01	5,300	69	5.6	17	14	<2
	03/18/02	71	54	4.2	17	27	8.5
	05/24/02	150	9.3	<0.5	<0.5	<0.5	1.5
	07/12/02	2,200	98	32	150	46	66
	10/25/02	786	48	5	44	2.2	16
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	6,000	170	550	120	110	970
	12/19/01	<50	<0.5	<0.5	0.9	<0.5	43
	03/18/02	<50	<1	<1	<1	<1	<1
	05/24/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	07/12/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	10/25/02	<100	<0.3	<0.3	<0.6	<0.3	<5
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
	03/18/02	<50	<1	<1	<1	<1	<1
	05/24/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	07/12/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	10/25/02	458	1.7	<0.3	<0.6	<0.3	233

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.....	1500 µg/L
Ethylbenzene.....	700 µg/L
Total Xylenes.....	1750 µg/L
MTBE.....	13 µg/L

3.0 CONCLUSIONS

The groundwater sampling results continue to indicate trace to non detectable concentrations of gasoline constituents analyzed within MW-4 (upgradient well), and MW-7. MW-8 which has always exhibited trace to non-detectable gasoline concentrations, exhibited minor gasoline concentrations this sampling round. It is the opinion of AEC that this result is an anomaly. MW-7 also 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 has been proven out based on results from the December 19, 2001, March 18, 2002, May 24, 2002, July 12, 2002, and October 25, 2002 groundwater sampling. MW-6 exhibited trace to minor concentrations of TPH-gasoline and volatiles and is also on a decreasing trend since the "hi-vac" process in October 2001.

MW-1, MW-2, MW-3, and MW-5 continue to exhibit elevated concentrations for TPH-gasoline and volatile organic concentrations, however, the concentrations are on a stabilizing and primarily decreasing trend. The benzene concentrations have exhibited the greatest decrease in concentration since the "hi-vac" of October 2001 and MTBE has also exhibited marked decreases in concentrations. It appears that using vacuum extraction on the contaminated groundwater in MW-1 and MW-5 has reduced and stabilized the groundwater plume. The wells occasionally "spike" upwards, however, concentrations remain well below pre "hi-vac" concentrations.

Oxygenate analyses were not conducted on the groundwater samples collected in July 2002 and October 2002 quarterly sampling.

The current flow direction was calculated to be North 45° West and the gradient is calculated at 0.30 ft/100ft. Flow direction and gradient have remained relatively consistent with prior sampling rounds. The monitoring wells yield adequate water volume and cannot be bailed dry. Recharge is good in all eight monitoring wells. Also, depth to water has decreased approximately 1.5 feet during the past quarter.

4.0 RECOMMENDATION

Advanced Environmental Concepts, Inc. recommends no additional quarters of sampling for this site. The plume continues to exhibit stable asymptotic gasoline concentrations; therefore, AEC recommends closure for the site and permission to abandon the groundwater wells. AECs rationale is based on the following:

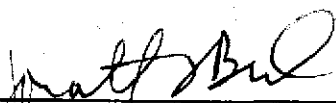
- (1) There are no drinking water supply wells in this area of Oakland. All water is imported through subsurface plumbing from outside this area; therefore, there is no opportunity for this gasoline release to affect drinking water supplies.
- (2) The plume has not migrated greater than 30-feet from the former UST and dispenser release points.
- (3) The gasoline plume in water is "perched" on a malleable "fat" clay at approximately 16-feet bgs and has exhibited no vertical migration into the clay layer. The water-bearing zone is also confined by a "fat" clay layer that extends to approximately 11-feet bgs, thereby reducing the potential for vertical vapor migration to the surface. The upper clay layer also retains the gasoline hydrocarbons rendering complete removal impossible by any remediation methods with the exception of excavation. However, the close proximity of the aboveground structures on the subject property, and numerous subsurface utility vaults and lines, negates the possibility of excavation as a viable option, therefore, there will always be some leaching of the hydrocarbons from the clay into groundwater.
- (4) The most elevated gasoline concentrations have been recorded from monitoring wells 1 and 5 which are along the north wall of the onsite car warehouse structure. The "hi-vac" method has reduced the gasoline concentrations from "free product" in wells 1 and 5 to less than 5,370 ppb of TPH-gasoline in well 5 and 1,820 ppb in well 1. In addition, benzene concentrations have decreased from a high of 5,200 ppb to the current measured result of 222 ppb in MW-1. The sampling results from the prior three quarters indicate a stabilizing and decreasing trend and that an asymptotic line is being reached.

5.0 CLOSING

Advanced Environmental Concepts, Inc. appreciates the opportunity of providing our professional services to Mr. Warren Dodson and Mr. Glen Poy-Wing. 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.



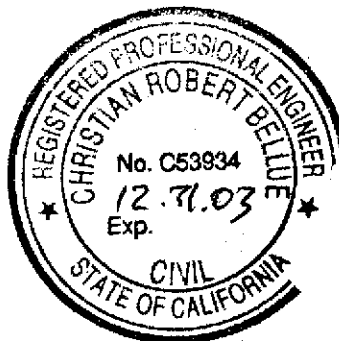
Jonathan L. Buck
Registered Environmental Assessor II #20017



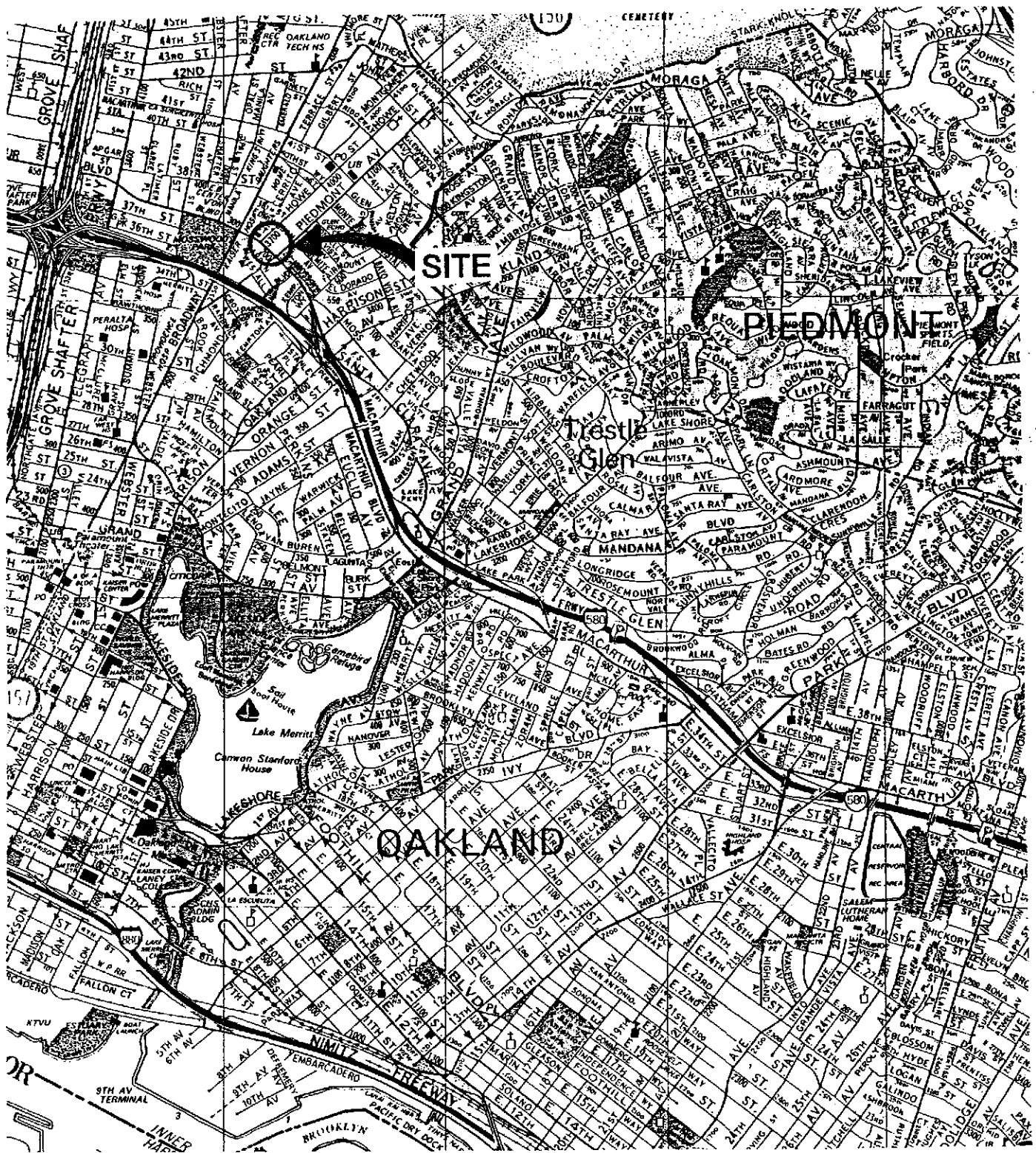
All environmental site work with which **Advanced Environmental Concepts, Inc.** was involved, was performed under my supervision to ensure proper sampling protocol and environmental assessment. This report has been technically reviewed by the undersigned.



Christian Bellue
Registered Professional Engineer #C53934



Doc30JG



Map Source: Thomas Maps

- SITE AREA -

Prestige Products Corporation

240 West MacArthur Blvd.

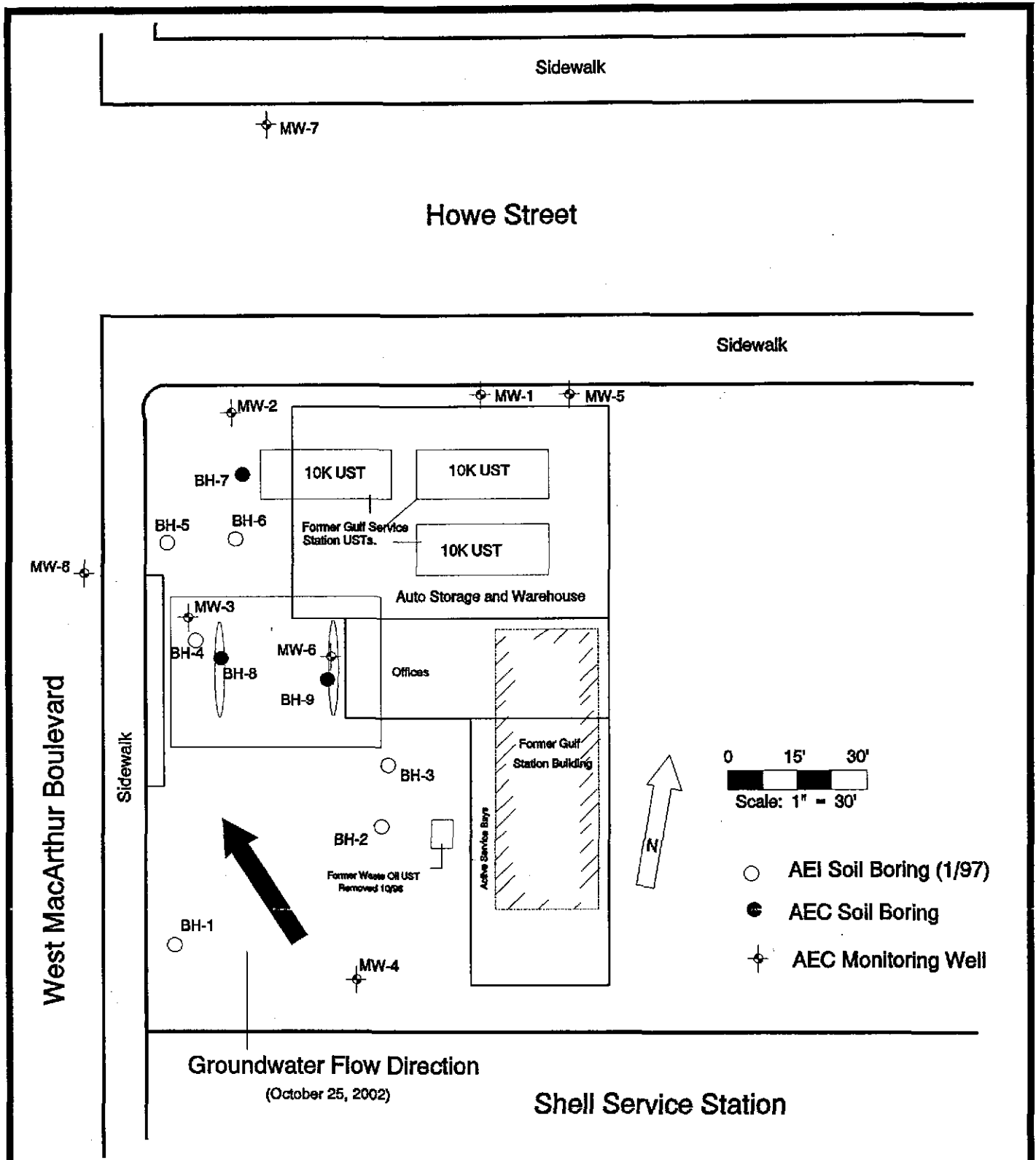
County of Alameda - Oakland, California

FIGURE

1



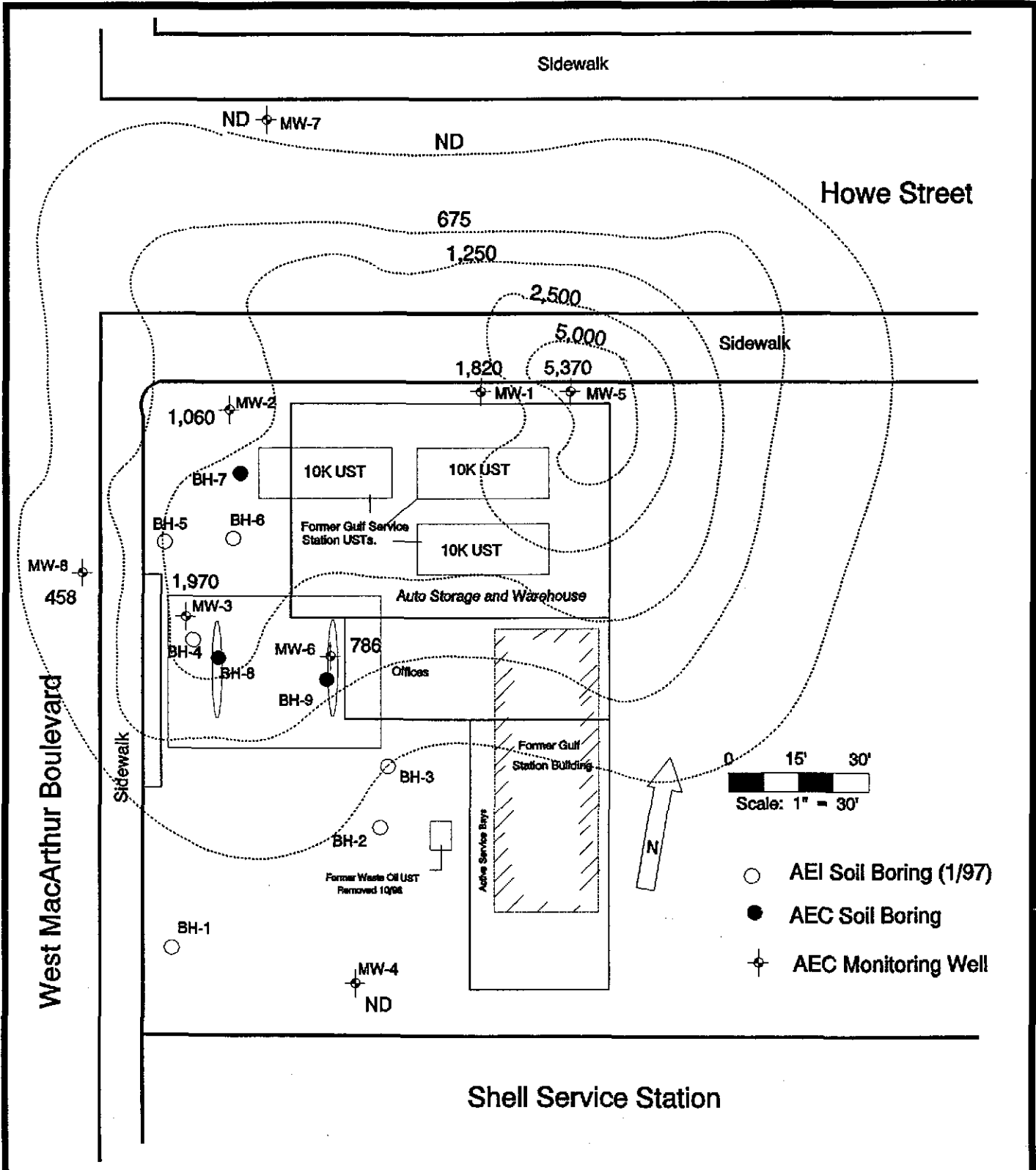
ADVANCED ENVIRONMENTAL CONCEPTS
P.O. BOX 40672 BAKERSFIELD, CA 93384



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

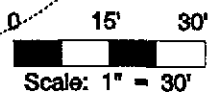


West MacArthur Boulevard

Sidewalk

Howe Street

Shell Service Station

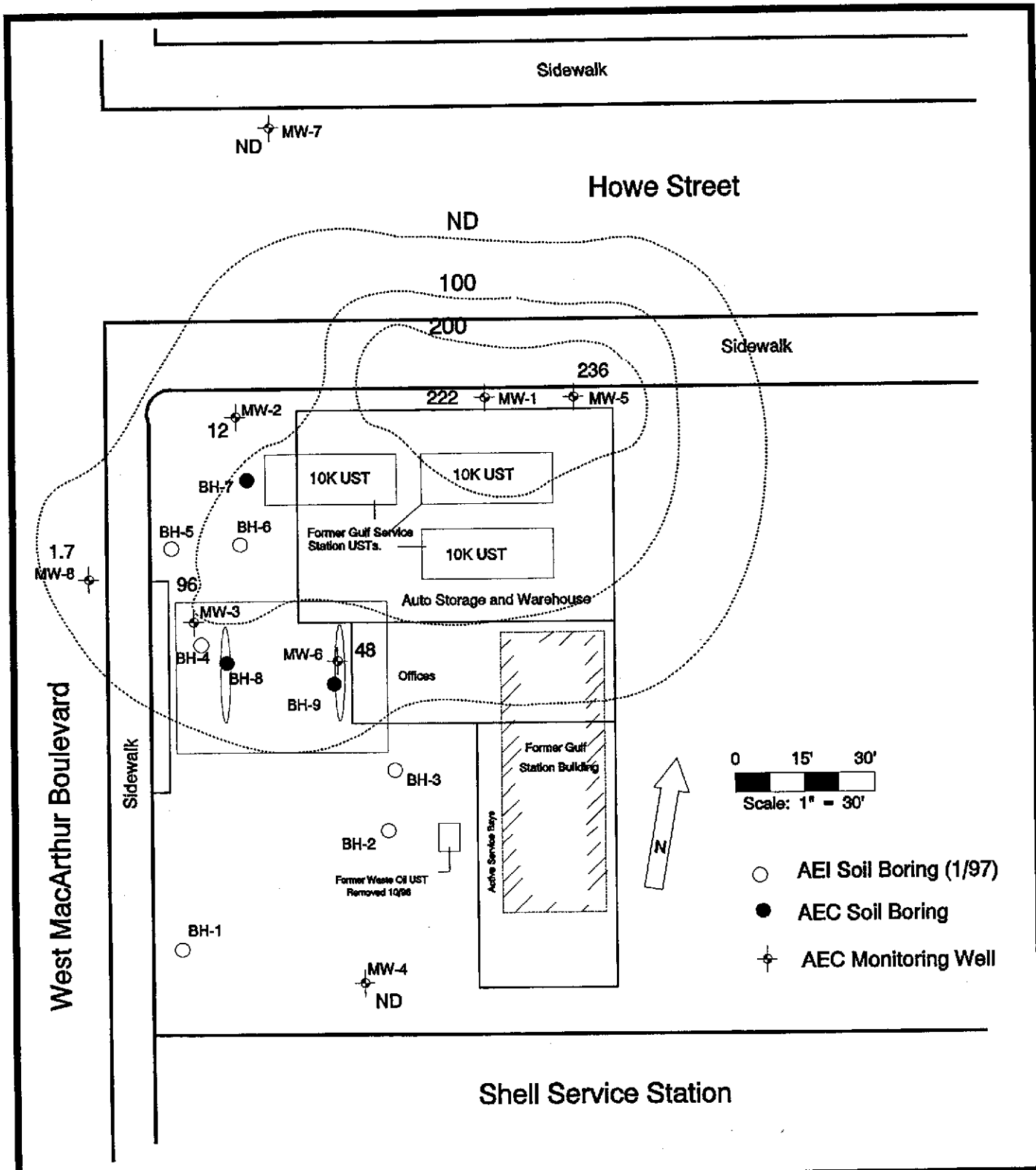


- AEI Soil Boring (1/97)
- AEC Soil Boring
- ⊕ AEC Monitoring Well



TPH-Gasoline in Water (ppb)
 (October 25, 2002)
 Former Vogue Tyres Facility
 240 West MacArthur Boulevard
 County of Alameda • Oakland, CA

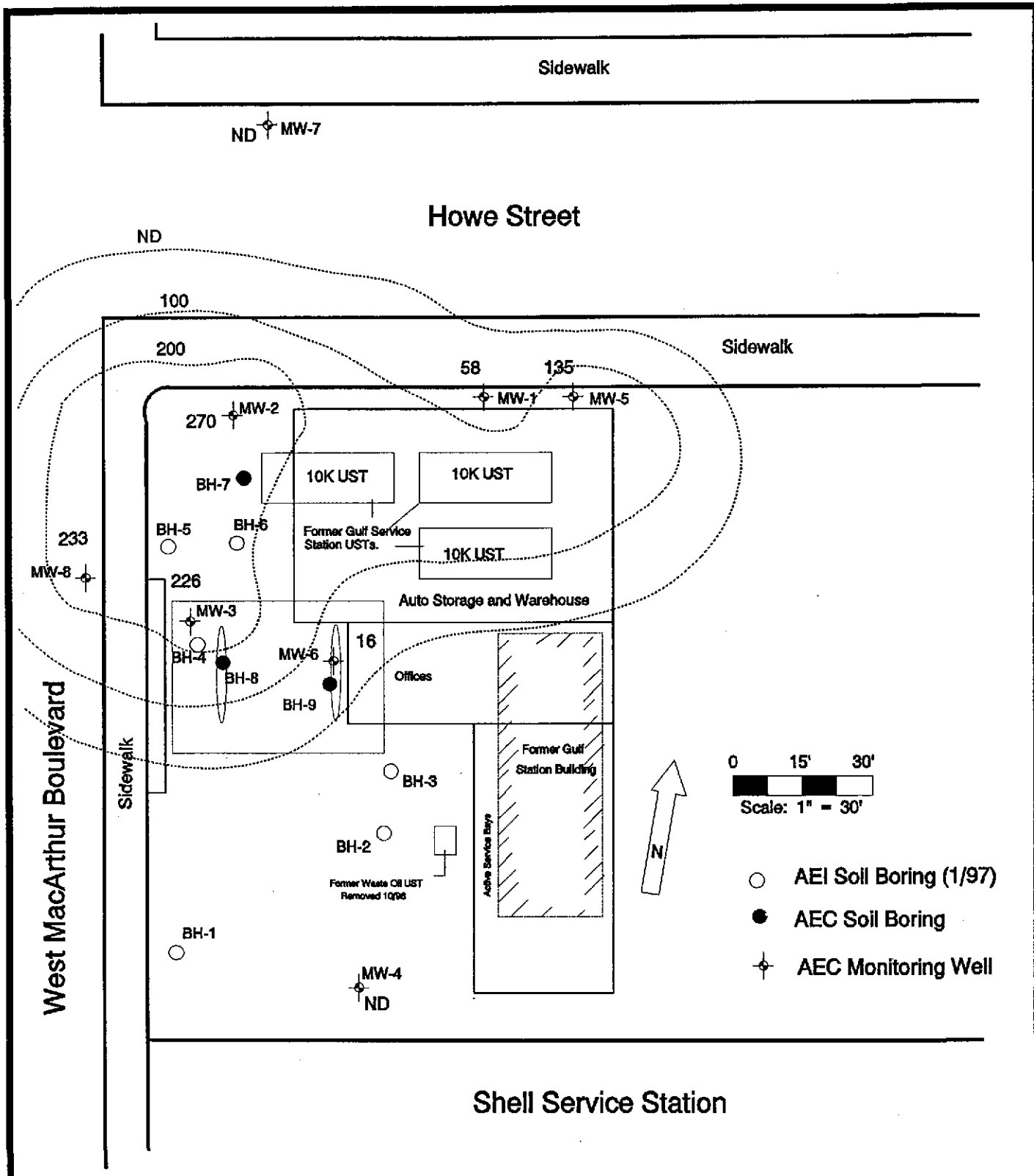
FIGURE
 3



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

Benzene in Groundwater (ppb)
 (October 25, 2002)
Former Vogue Tyres Facility
 240 West MacArthur Boulevard
 County of Alameda • Oakland, CA

FIGURE
 4



Groundwater Parameters

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

AEC P.O. #: _____
 Project #: _____
 Date: October 25, 2002

TIME	GALLONS PURGED	CONDUCTIVITY	TEMPERATURE	pH	TURBIDITY
MONITORING WELL # <u>1</u>					
		1,570	59.7	6.43	11.4
MONITORING WELL # <u>2</u>					
		1,110	61.6	6.47	10.2
MONITORING WELL # <u>3</u>					
		1,040	62.2	6.52	14.6

3 Casing Volumes

4" Screen = (.66 gal/ft) (_____ ft) = _____ 2" Screen = (.17 gal/ft) (_____ ft) = _____

MW # MW-1 Depth to Groundwater = 17.03' Corrected Depth: 17.26' Survey: 4.38'
 MW # MW-2 Depth to Groundwater = 16.54' Corrected Depth: 18.19' Survey: 5.80'
 MW # MW-3 Depth to Groundwater = 15.44' Corrected Depth: 17.26' Survey: 5.97'

Groundwater Parameters

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

AEC P.O. #: _____
 Project #: _____
 Date: October 25, 2002

TIME	GALLONS PURGED	CONDUCTIVITY	TEMPERATURE	pH	TURBIDITY
MONITORING WELL # <u>4</u>					
		1,260	64.2	6.55	15.2
MONITORING WELL # <u>5</u>					
		1,310	60.1	6.34	14.8
MONITORING WELL # <u>6</u>					
		1,650	63.1	6.52	13.4

3 Casing Volumes

4" Screen = (.66 gal/ft) (_____ ft) = _____ 2" Screen = (.17 gal/ft) (_____ ft) = _____

MW # MW-4 Depth to Groundwater = 15.56' Corrected Depth: 17.26' Survey: 5.85'
 MW # MW-5 Depth to Groundwater = 17.18' Corrected Depth: 17.18' Survey: 4.15'
 MW # MW-6 Depth to Groundwater = 16.24' Corrected Depth: 17.23' Survey: 5.14'

Groundwater Parameters

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

AEC P.O. #: _____
 Project #: _____
 Date: October 25, 2002

TIME	GALLONS PURGED	CONDUCTIVITY	TEMPERATURE	pH	TURBIDITY
MONITORING WELL # <u>7</u>					
		1,180	60.3	6.54	14.2
MONITORING WELL # <u>8</u>					
		1,210	62.0	6.49	13.8
MONITORING WELL # <u> </u>					

3 Casing Volumes

4" Screen = (.66 gal/ft) (_____ ft) = _____ 2" Screen = (.17 gal/ft) (_____ ft) = _____

MW # MW-7 Depth to Groundwater = 16.36' Corrected Depth: 12.45' Survey: 5.24'

MW # MW-8 Depth to Groundwater = 14.48' Corrected Depth: 17.51' Survey: 7.18'

MW # _____ Depth to Groundwater = _____ Corrected Depth: _____ Survey: _____



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Advanced Environmental Concepts Inc. (10022)
ATTN: Jonathan Buck
4400 Ashe Road
#206
Bakersfield, CA 93313

LAB REQUEST 101419

REPORTED 10/31/2002

RECEIVED 10/26/2002

PROJECT Vogue Tyres
240 W. Mac Arthur Blvd., Oakland

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.

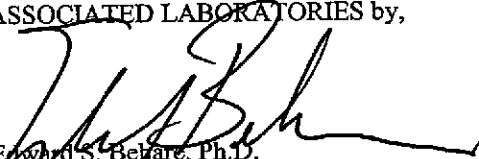
Client Sample Identification

388192
388193
388194
388195
388196
388197
388198
388199
388200

MW-7 10/22
MW-4 10/22
MW-8 10/22
MW-2 10/22
MW-3 10/22
MW-6 10/22
MW-5 10/22
MW-1 10/22
Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,


Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 388199

Client: Advanced Environmental Concepts Inc.

Matrix: WATER

Client Sample ID: MW-1 10/22

Date Sampled: 10/22/2002

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	754	20	6.0	ug/L	10/30/02 LZ
Ethyl benzene	5.9	5	1.5	ug/L	10/30/02 LZ
Methyl t - butyl ether	139	5	25.0	ug/L	10/30/02 LZ
Toluene	12	5	1.5	ug/L	10/30/02 LZ
Xylene (total)	195	5	3.0	ug/L	10/30/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	4300	5	500.0	ug/L	10/30/02 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	127			%	55 - 156

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 388195

Client: Advanced Environmental Concepts Inc.

Matrix: WATER

Client Sample ID: MW-2 10/22

Date Sampled: 10/22/2002

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8021B BTEX + MTBE					
Benzene	27	1	0.3	ug/L	10/30/02 LZ
Ethyl benzene	2.2	1	0.3	ug/L	10/30/02 LZ
Methyl t - butyl ether	204	10	50.0	ug/L	10/30/02 LZ
Toluene	3.1	1	0.3	ug/L	10/30/02 LZ
Xylene (total)	4.9	1	0.6	ug/L	10/30/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	683	1	100	ug/L	10/30/02 LZ
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	128			%	55 - 156

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 388196

Client: Advanced Environmental Concepts Inc.

Matrix: WATER

Client Sample ID: MW-3 10/22

Date Sampled: 10/22/2002

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	178	5	1.5	ug/L	10/30/02 LZ
Ethyl benzene	6.2	1	0.3	ug/L	10/30/02 LZ
Methyl t - butyl ether	178	5	25.0	ug/L	10/30/02 LZ
Toluene	19	1	0.3	ug/L	10/30/02 LZ
Xylene (total)	36	1	0.6	ug/L	10/30/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	3030	1	100	ug/L	10/30/02 LZ
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Surrogates

			Units	Control Limits
a,a,a-Trifluorotoluene	264*		%	55 - 156

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 388193

Client: Advanced Environmental Concepts Inc.

Matrix: WATER

Client Sample ID: MW-4 10/22

Date Sampled: 10/22/2002

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8021B BTEX + MTBE					
Benzene	ND	1	0.3	ug/L	10/30/02 LZ
Ethyl benzene	ND	1	0.3	ug/L	10/30/02 LZ
Methyl t - butyl ether	ND	1	5	ug/L	10/30/02 LZ
Toluene	ND	1	0.3	ug/L	10/30/02 LZ
Xylene (total)	ND	1	0.6	ug/L	10/30/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	100	ug/L	10/30/02 LZ
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	112			%	55 - 156

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 388198

Client: Advanced Environmental Concepts Inc.

Matrix: WATER

Client Sample ID: MW-5 10/22

Date Sampled: 10/22/2002

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	1220	50	15.0	ug/L	10/30/02 LZ
Ethyl benzene	137	20	6.0	ug/L	10/30/02 LZ
Methyl t - butyl ether	871	50	250.0	ug/L	10/30/02 LZ
Toluene	557	20	6.0	ug/L	10/30/02 LZ
Xylene (total)	3210	50	30.0	ug/L	10/30/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	28000	20	2000.0	ug/L	10/30/02 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	144			%	55 - 156

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 388197

Client: Advanced Environmental Concepts Inc.

Matrix: WATER

Client Sample ID: MW-6 10/22

Date Sampled: 10/22/2002

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8021B BTEX + MTBE					
Benzene	3.0	1	0.3	ug/L	10/30/02 LZ
Ethyl benzene	1.7	1	0.3	ug/L	10/30/02 LZ
Methyl t - butyl ether	7.8	1	5	ug/L	10/30/02 LZ
Toluene	1.5	1	0.3	ug/L	10/30/02 LZ
Xylene (total)	3.8	1	0.6	ug/L	10/30/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	622	1	100	ug/L	10/30/02 LZ
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Surrogates

			Units	Control Limits
a,a,a-Trifluorotoluene	143		%	55 - 156

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 388192

Client: Advanced Environmental Concepts Inc.

Matrix: WATER

Client Sample ID: MW-7 10/22

Date Sampled: 10/22/2002

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8021B BTEX + MTBE					
Benzene	ND	1	0.3	ug/L	10/30/02 LZ
Ethyl benzene	ND	1	0.3	ug/L	10/30/02 LZ
Methyl t - butyl ether	ND	1	5	ug/L	10/30/02 LZ
Toluene	ND	1	0.3	ug/L	10/30/02 LZ
Xylene (total)	ND	1	0.6	ug/L	10/30/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	100	ug/L	10/30/02 LZ
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	87			%	55 - 156

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 388194

Client: Advanced Environmental Concepts Inc.

Matrix: WATER

Client Sample ID: MW-8 10/22

Date Sampled: 10/22/2002

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8021B BTEX + MTBE					
Benzene	ND	1	0.3	ug/L	10/30/02 LZ
Ethyl benzene	ND	1	0.3	ug/L	10/30/02 LZ
Methyl t - butyl ether	ND	1	5	ug/L	10/30/02 LZ
Toluene	ND	1	0.3	ug/L	10/30/02 LZ
Xylene (total)	ND	1	0.6	ug/L	10/30/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	100	ug/L	10/30/02 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	88			%	55 - 156

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 388200

Client: Advanced Environmental Concepts Inc.

Matrix: WATER

Client Sample ID: Laboratory Method Blank

Date Sampled:

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8021B BTEX + MTBE					
Benzene	ND	1	0.3	ug/L	10/30/02 LZ
Ethyl benzene	ND	1	0.3	ug/L	10/30/02 LZ
Methyl t - butyl ether	ND	1	5	ug/L	10/30/02 LZ
Toluene	ND	1	0.3	ug/L	10/30/02 LZ
Xylene (total)	ND	1	0.6	ug/L	10/30/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	100	ug/L	10/30/02 LZ
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	89			%	55 - 156

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor.

ASSOCIATED LABORATORIES

Analytical Results Report



ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: LCS 102902
 Matrix: WATER
 Prep. Date: 10/29/02
 Analysis Date: 10/29/02
 ID#'s in Batch: LR 101419

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = ug/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	511	468	102	94	9

ND = Not Detected

LCS Result = Lab Control Sample Result

%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate

RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS = 70 - 130

RPD LIMITS = 30

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	55-156
Method Blank	89
LCS	134
LCSD	126

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: LCS 102902
 Matrix: WATER
 Prep. Date: 10/29/02
 Analysis Date: 10/29/02
 LAB ID#'s in Batch: LR 101419

REPORTING UNITS = ug/L

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP. BLK	LCS			LCSD	
		Value	Result	TRUE	%Rec	Result	%Rec
Benzene	8021	ND	22	20	110	22	110
Toluene	8021	ND	22	20	110	22	110
Ethylbenzene	8021	ND	24	20	120	24	120
Xylenes	8021	ND	62	60	103	59	98

LCS = Lab Control Sample Result

TRUE = True Value of LCS

L.LIMIT / H.LIMIT = LCS Control Limits

<i>L.Limit</i>	<i>H.Limit</i>
80%	120%

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	55-156
Method Blank	89
LCSD	101
LCSD	98

AAA-TFT = a,a,a-Trifluorotoluene

CHAIN-OF-CUSTODY RECORD CD4119

Client AEC		Date 10/22/02		Laboratory Sample Number	Sample Matrix: Soil(S) Sludge(SL), Aqueous(A)	Analysis Requested						Number of Containers	LAB Project #							
Project Name VOGUE Tyres		Client Project #				TPH-g/BTEX/MTBE							Page 1 of 1							
Project Address 240 W. MacArthur Blvd		Turn Around Requested:											<input type="checkbox"/> 24-Hour-Rush <input type="checkbox"/> 48-Hour-Rush <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Mobile Lab						Lab Use Only. Sample Condition as received: Chilled <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No Sealed <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	
Sampler's Signature <i>[Signature]</i>																			<table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr> </table>	
Sample	Sample Location	Date	Time																	
MW-7		10/22/02			A	/						2								
MW-4		11			A	/						2								
MW-8		11			A	/						2								
MW-2		11			A	/						2								
MW-3		11			A	/						2								
MW-6		11			A	/						2								
MW-5		11			A	/						2								
MW-1		10/22/02			A	/						2								
1 Relinquished by: (Signature) <i>[Signature]</i>		Date 10/25/02	2 Received by: (Signature) <i>[Signature]</i>		Date 10-26-02	16						Total Number of Containers								
Company AEC		Time 1600	Company: Assoc. Labs		Time 10:27															
3 Relinquished by: (Signature)		Date	4 Received by Laboratory: (Signature) 2		Date 10/29 8:51/11	ADVANCED ENVIRONMENTAL CONCEPTS INC. 661/831-1646 4400 ASHE ROAD, #206 FAX 661/831-1771 BAKERSFIELD, CA 93313 E-mail: advanced@lightspeed.net														
Company:		Time	Company:		Time															