ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

R0283

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

StID 622

April 13, 2001

Ms. Julie Beck Ball
Beck Family Properties
2720 Broderick Street
San Francisco, CA 94123

Ms. Michele Nokes
Antioch Toyota
1810 Somersville Road
Antioch, CA 94509

Re: Fuel Leak Site Case Closure for 1650 Park Street, Alameda, CA

Dear Ms. Ball and Nokes:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- up to 7100ppm TPH as gasoline, and 36ppm benzene exists in soil beneath the site;
- up to 9.8ppb benzene exists in groundwater beneath the site; and,
- a site safety plan must be prepared for construction workers in the event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination

If you have any questions, please contact me at (510) 567-6762.

eva chu
Hazardous Materials Specialist

enlosures: 1. Case Closure Letter 2. Case Closure Summary

c: City of Alameda, Planning Dept. Vivian Day-City Hall, 2263 Santa Clara Ave. Alameda, CA 94501 (w/o)
files (winnerford-8)

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1131 Harbor Bay Parkway, Suite 250
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(510) 567-6700
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REMEDIAL ACTION COMPLETION CERTIFICATION

StID 622 - 1650 Park Street, Alameda, CA
(1-100 gallon waste oil and 1-550 gallon gasoline tanks removed on 8/10/95)

April 13, 2001

Ms. Julie Beck Ball
Beck Family Properties
2720 Broderick Street
San Francisco, CA 94123

Ms. Michele Nokes
Antioch Toyota
1810 Somersville Road
Antioch, CA 94509

Dear Ms. Ball and Nokes:

This letter confirms the completion of site investigation and corrective action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

cc: Chuck Headlee, RWQCB
Dave Deaner, SWRCB
files-ec (winnerford-7)

RB# 01-2193

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

00 NOV 16 PM 4:09

I. AGENCY INFORMATION

Date: January 28, 2000

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Pkwy**
City/State/Zip: **Alameda, CA 94502** Phone: **(510) 567-6700**
Responsible staff ~~person~~: **Eva Chu** Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **Winner Ford**
Site facility address: **1650 Park Street, Alameda, CA 94501**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **622**
URF filing date: **8/30/95** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
1. **Julie Beck Ball**	**Beck Family Properties** **2720 Broderick St.** **San Francisco, CA 94123**	
2. **Michele Nokes**	**Antioch Toyota** **1810 Somersville Rd** **Antioch, CA 94509**	

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	100	Waste Oil	Removed	8/10/95
2	550	Gasoline	"	"

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**
Site characterization complete? **YES**
Date approved by oversight agency: **1/29/98**
Monitoring Wells installed? **Yes** Number: **2**
Proper screened interval? **Yes, 5' to 25'bgs**
Highest GW depth below ground surface: **5.83'** Lowest depth: **7.13' in MW-1**
Flow direction: **Predominantly North, northeasterly, based on groundwater elevation data from adjacent properties at 1630, 1701 and 1725 Park Street.**
Most sensitive current use: **Commercial**
Are drinking water wells affected? **No** Aquifer name: **Unknown**
Is surface water affected? **No** Nearest affected SW name: **NA**
Off-site beneficial use impacts (addresses/locations): **None**
Report(s) on file? **YES** Where is report(s) filed? **Alameda County**
1131 Harbor Bay Pkwy
Alameda, CA 94502

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	2 USTs	Disposed by Erickson in Richmond	8/10/95
Soil	~233 tons	Disposed at BFI Landfill, Livermore	11/5/95

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before[1]	After[2]	Before[3]	After[4]
TPH (Gas)	46,000	7,100	222	83
TPH (Diesel)	ND	NA	NA	NA
Benzene	1,300	36	62.8	9.8
Toluene	4,400	410	34.4	<0.5
Ethylbenzene	1,100	150	5.7	<0.5
Xylenes	3,400	500	32.1	<0.5
MtBE	NA	0.64	331	68
Oil & Grease	3,100[6]	3,100[6]	<10	<10
Other SVOC	see Note 5		NA	ND
HVOC	ND			

NOTE:
1 soil sample collected from under gasoline dispenser at 0.25'bgs
2 soil sample collected from gasoline tank pit after overexcavation at 8'bgs. MTBE from boring MW-1 at 5'bgs.
3 maximum conc. from monitoring wells, Jul 1990
4 most recent sampling event, Sep 1999, except HVOCs and SVOCs are from Dec 1999. 2.1ppb Bis(2-ethylhexyl)phthalate was detected in well MW-2.
5 soil contained 0.52 ppm pyrene, 0.33ppm benzo(a)anthracene, and 0.40 ppm chrysene
6 soil from waste oil tank pit (no overexcavation performed), Aug 1995
NA Not Analyzed ND Non Detect

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? _____
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? _____
Does corrective action protect public health for current land use? **YES**
Site management requirements: **A site safety plan must be prepared for construction workers in the event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.**
Should corrective action be reviewed if land use changes? YES
Monitoring wells Decommissioned: **None, pending site closure**
Number Decommissioned: **0** Number Retained: **2**
List enforcement actions taken: **None**
List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu** Title: **Haz Mat Specialist**

Signature: [signature] Date: 5/5/00

Reviewed by

Name: **Larry Seto** Title: **Sr. Haz Mat Specialist**

Signature: [signature] Date: 2-10-2000

Name: **Thomas Peacock** Title: **Supervisor**

Signature: [signature] Date: 5-5-00

VI. RWQCB NOTIFICATION

Date Submitted to RB: 5/5/00 RB Response: Concur

RWQCB Staff Name: **Chuck Headlee** Title: **AEG**

Signature: [signature] Date: 5/15/00

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site currently operates an automobile dealership and showroom. On the site is a building that houses several offices, an automobile showroom, and an auto storage warehouse. The site is paved mostly with asphalt. Two USTs were located beneath the sidewalk. The 550 gallon gasoline UST was under Buena Vista Avenue, and the 100 gallon waste oil UST was under Park Street. The fuel dispenser for the gasoline UST was located adjacent to the UST and just inside the main building. The two tanks were removed in August 1995. (See Figs 1 and 2)

The gasoline UST was somewhat corroded but with no through-holes noted. Soil in the gasoline tank pit was visibly stained from 4.5' bgs to the pit bottom. Soil surrounding the piping was also stained. A strong hydrocarbon odor from the soil was also noted. Limited overexcavation was conducted and terminated when continued excavation presented potential structural instabilities. Groundwater was encountered at ~9'bgs. Soil samples were collected from the pit bottom (8'bgs) after the removal of the UST and from the sidewalls (8'bgs) after overexcavation of the gasoline pit. A soil sample was also collected from below the gasoline dispenser (0.25'bgs). Elevated gasoline constituents were noted in soil from both the gasoline tank pit and under the dispenser. (See Fig 3, Table 1)

The waste oil UST was very corroded and the seams were breached. The waste oil pit did not exhibit obvious soil contamination. The soil sample collected from the pit bottom (6.5'bgs) contained relatively low levels of oil and grease (3,100ppm TRPH) and several semi-volatile organic compounds (SVOCs). The SVOC levels did not exceed their respective PRGs for residential soils. (See Table 1)

In July 1996, two exploratory borings were advanced and converted into groundwater monitoring wells MW-1 and MW-2. In addition a hand-augered soil boring, B-1, was advanced adjacent to the former dispenser. Soil samples were collected from 5' bgs from each boring. In addition, a soil sample was collected from 10' bgs from boring MW-2, and from 7' bgs from boring B-1. (See Fig 4)

Based on the soil analytical results, little soil contamination was left in the vicinity of the former waste oil tank. In addition, based on the analytical results from boring B-1 (advanced immediately adjacent to the former fuel dispenser) hydrocarbon impacted soil discovered beneath the dispenser was surficial and did not extend below 5' bgs. Finally, hydrocarbon contamination in the vicinity of the former gasoline tank pit appears to be limited in extent. Only the north wall of the excavation had elevated hydrocarbon concentrations. The east, west, and south walls had hydrocarbon concentrations that were two orders of magnitude less than the north wall. Soil sample from boring MW-1, located within 10' of, and northeast of the former gasoline tank, contained low levels of gasoline constituents. (See Table 2)

Groundwater was sampled from July 1996 to December 1999. Hydrocarbon contamination and HVOCs have not been identified above the laboratory detection limits in well MW-2, adjacent to the former waste oil tank. A groundwater sample collected from well MW-2 on Dec 28, 1999 was non-detect for SVOCs, except for 2.1ppb bis(2-ethylhexyl)phthalate. Gasoline constituents have been identified in well MW-1, downgradient of the former gasoline tank, but the overall hydrocarbon concentrations have decreased since the initial sampling event in July 1996. (See Tables 3, 4, and 5)

Volatilization of benzene from both soil and groundwater to outdoor air should not pose added risk to human health (based on the ASTM RBCA Tier 1 Look-up Table). Other exposure pathways were not considered because residual contamination is located primarily under the sidewalk and street. And groundwater at this site is not used for human consumption. Continued monitoring is not warranted.

In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
- the dissolved plume is not migrating;
- no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.

UNITED STATES GEOLOGICAL SURVEY 7.5' QUAD "OAKLAND EAST, CA", ED. 1959, PHOTOREVISED 1980

BLYMYER ENGINEERS INC

0 1000 2000

SCALE IN FEET

N

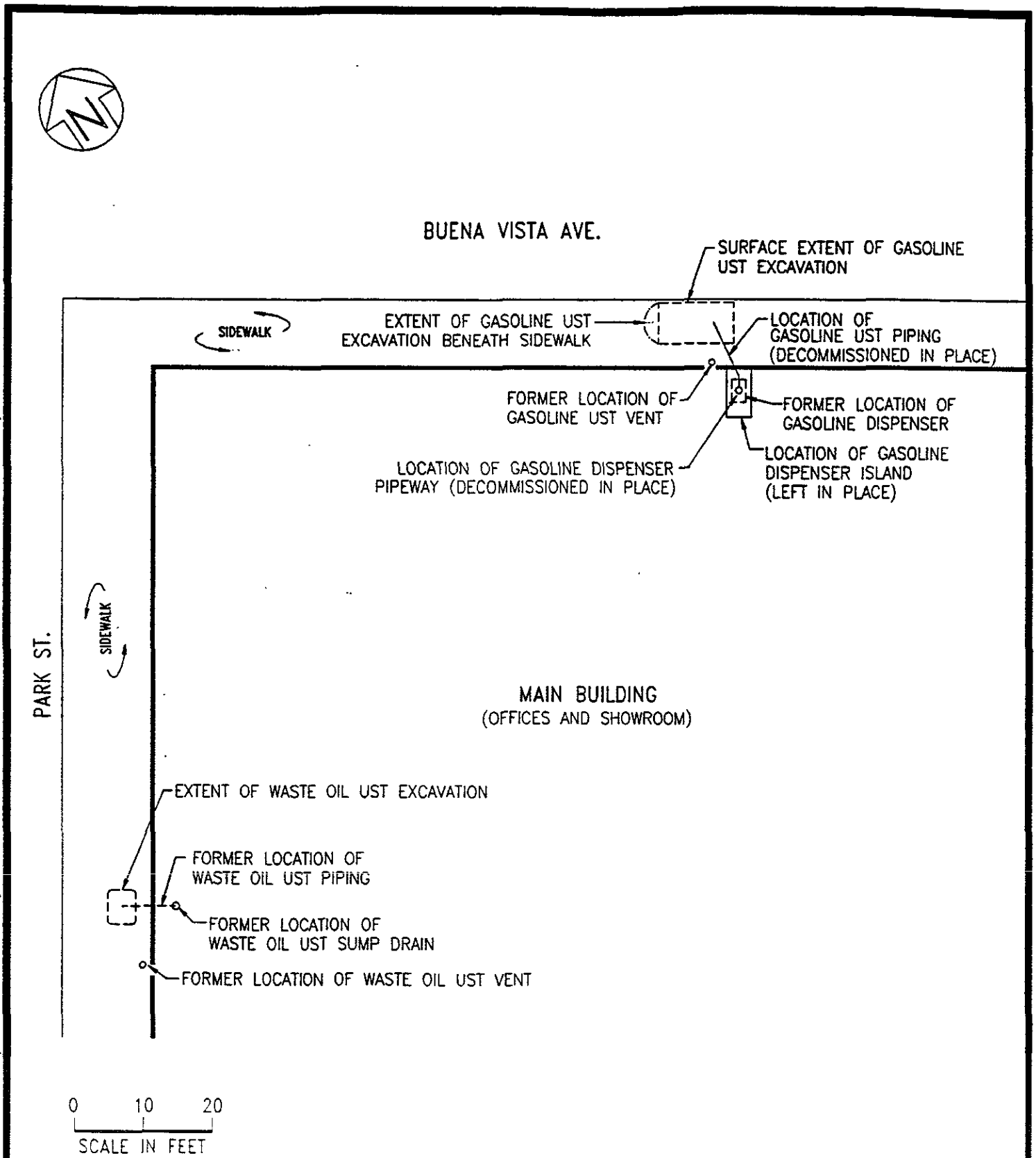
SITE LOCATION MAP

WINNER FORD
1650 PARK ST.
ALAMEDA, CA

FIGURE 1

BEI JOB NO 95048

DATE 9/18/95



BLYMYER ENGINEERS, INC.

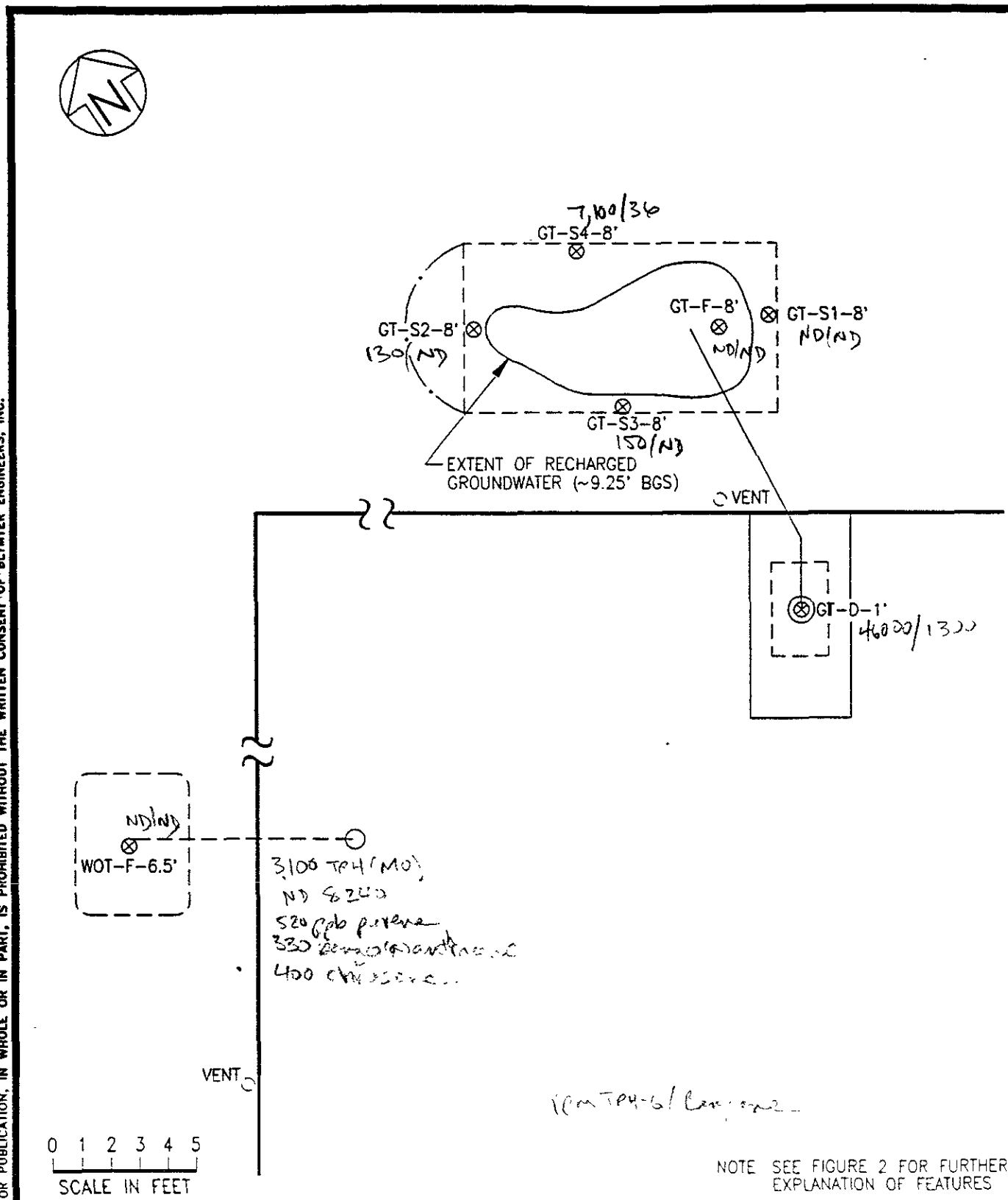
BEI JOB NO.	DATE
95048	9/18/95

LEGEND
UST UNDERGROUND STORAGE TANK

PARTIAL SITE PLAN
WINNER FORD
1650 PARK ST.
ALAMEDA, CA

FIGURE 2

REVISED 10/11/95 H:\PUBLIC\ACAD\W\950482



BLYMYER ENGINEERS, INC.

BEI JOB NO.	DATE
95048	9/18/95

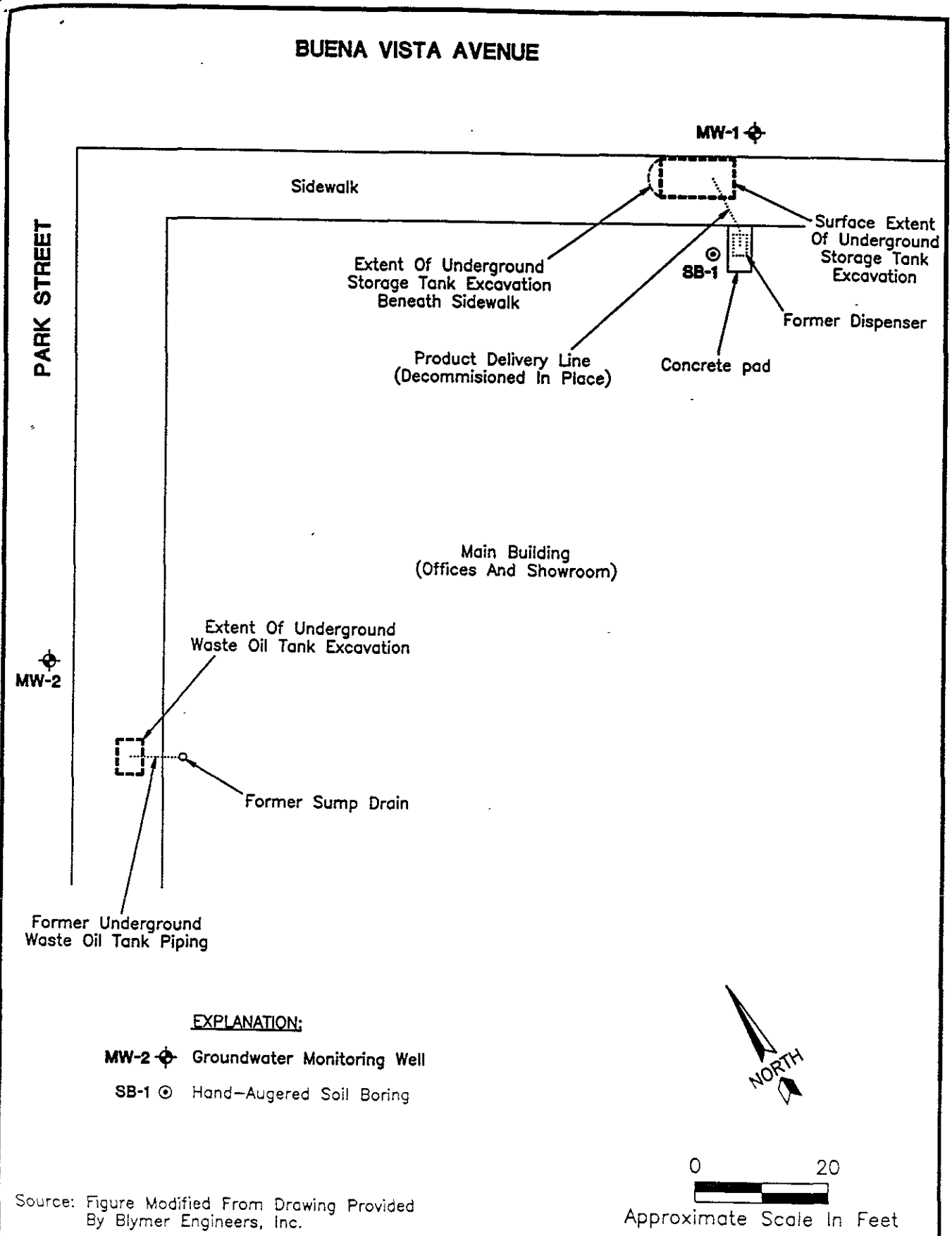
LEGEND
BGS BELOW GRADE SURFACE
⊗ SOIL SAMPLE LOCATION

SOIL SAMPLE LOCATIONS

WINNER FORD
1650 PARK ST.
ALAMEDA, CA

FIGURE 3

REVISED 11/1/95 H:\PUBLIC\ACADLW\950483



Source: Figure Modified From Drawing Provided By Blymer Engineers, Inc.

HORIZON ENVIRONMENTAL INC.

Project Number: 3002.11	Drawn By: D. Alston
Prepared By: G. Barker	Date: 8/96
Reviewed By:	Revised Date:

SITE PLAN

WINNER FORD
1650 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 4

TABLE 1
SUMMARY OF ANALYTICAL RESULTS[1]
Winner Ford
Alameda, California

Sample No.	Depth Feet	TPHg PPM	B PPM	T PPM	E PPM	X PPM	TRPH PPM	TPHd PPM
Soil								
GT-S1-8	8	ND	ND	ND	ND	ND	NA	NA
GT-S2-8	8	130	ND	1.7	1.6	5.5	NA	NA
GT-S3-8	8	150	ND	1.8	1.6	5.6	NA	NA
GT-S4-8	8	7,100	36	410	150	500	NA	NA
GT-F-8	8	ND	ND	ND	ND	ND	NA	NA
GT-D-1	0.25	46,000	1,300	4,400	1,100	3,400	NA	NA
WOT-F-6.5	6.5	ND	ND	ND	ND	ND	3,100	ND
GT-SP-1	Stockpile	3,700	7.0	47	47	160	NA	NA
WOT-SP-1	Stockpile	ND	ND	ND	ND	ND	360	NA

Sample No.	Depth Feet	Benzo(a)Anthracene PPB	Chrysene PPB	Pyrene PPB
Soil				
WOT-F-6.5	6.5	330	400	520

Notes: TPHg = total petroleum hydrocarbons as gasoline
TRPH = total recoverable petroleum hydrocarbons
TPHd = total petroleum hydrocarbons as diesel
B = benzene, T= toluene, E= ethylbenzene, X= xylenes
PPM = parts per million, PPB = parts per billion
NA = not analyzed
ND = not detectable at the laboratory detection limit
[1] = All other laboratory analysis performed were either ND or did not exceed 10 times their respective STLC or TCLP (metals only).

TABLE # 2
ANALYTICAL RESULTS OF SOIL SAMPLES

Winner Ford
1650 Park Street
Alameda, California

Sample Number & Depth	Date	Total Oil & Grease mg/Kg	TPHg mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl-benzene mg/Kg	Total Xylenes mg/Kg	MTBE mg/Kg
S-MW1-5	07/11/96	NA	22.2	0.05	0.217	0.152	0.903	0.64
S-MW2-5	07/11/96	114	ND	ND	ND	ND	ND	NA
S-MW2-10	07/11/96	92	ND	ND	ND	ND	ND	NA
S-B1-5	07/11/96	NA	ND	ND	ND	ND	ND	ND
S-B1-7	07/11/96	NA	ND	ND	ND	ND	ND	ND
Composite Sample S-SP-A, B, C, D	07/11/96	790	ND	ND	ND	ND	ND	ND

Notes: TPHg = Total Petroleum Hydrocarbons as gasoline
MTBE = methyl tertiary butyl ether
mg/Kg = milligrams per kilogram or parts per million
NA = not analyzed for
ND = not detected at or greater than the indicated laboratory reporting limit

TABLE 3

GROUNDWATER DATA
Winner Ford
1650 Park Street, Alameda, California

Well No.	Date Sampled	Total Depth (ft.)	Depth to Water (ft.)	TPHg (ppb)	MTBE† (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	TOG (ppm)
MW-1	07/16/96	---	---	222	267	62.8	34.3	5.75	32.1	NA
	04/29/97	22.75	5.89	145	312/260*	53.5	6.1	4.2	9.2	NA
	08/20/97	22.69	7.13	65	331	18.0	1.3	1.6	2.5	NA
	12/02/97	22.63	5.83	62	213	12.6	< 0.5	0.6	1.2	NA
	06/10/98	21.92	4.58	280	249	69	4.6	13	35.1	NA
	02/09/99	22.62	7.71	97	61	8.5	<0.50	3.1	2.2	NA
	09/01/99	22.59	6.27	83	68	9.8	<0.50	<0.50	<0.50	NA
MW-2‡	07/16/96	---	---	< 50	NA	1.1	< 0.5	< 0.5	1.05	NA
	07/29/96	---	---	NA	NA	NA	NA	NA	NA	< 10
	04/29/97	24.77	7.62	< 50	< 5.0	0.6	< 0.5	< 0.5	< 0.5	< 10
	08/20/97	24.74	8.26	< 50	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10
	12/02/97	24.73	7.37	< 50	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10
	06/10/98	NM	7.12	NS	NS	NS	NS	NS	NS	NS
	02/09/99	NM	NM	NS	NS	NS	NS	NS	NS	NS
	09/01/99	NM	7.59	NS	NS	NS	NS	NS	NS	NS

TPHg = Total Petroleum Hydrocarbons as gasoline
ppb = parts per billion
ppm = parts per million
MTBE† = Methyl Tertiary-Butyl Ether, by EPA Method 8020
NA = Not Analyzed
NM = Not Measured
NS = Not Sampled
‡ = Sampling of well MW-2 discontinued by ACHCSA-DEH letter effective June 1998.

Table 4

KIFF ANALYTICAL LLC

Report Number : 15710

Date : 01/05/2000

Project Name : **Winner ford**

Project Number : **3002**

Sample : **W-1228-MW2**

Matrix : Water

Sample Date :12/28/1999

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Chloromethane	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
Vinyl Chloride	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
Bromomethane	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
Chloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
Trichlorofluoromethane	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
1,1-Dichloroethene	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
Methylene Chloride	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
trans-1,2-Dichloroethene	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
1,1-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
cis-1,2-Dichloroethene	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
Chloroform	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
1,1,1-Trichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
Carbon Tetrachloride	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
Trichloroethene	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
1,2-Dichloropropane	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
Bromodichloromethane	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
cis-1,3-Dichloropropene	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
trans-1,3-Dichloropropene	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
1,1,2-Trichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
Tetrachloroethene	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
Dibromochloromethane	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
Chlorobenzene	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
Bromoform	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
1,1,2,2-Tetrachloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
1,3-Dichlorobenzene	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
1,4-Dichlorobenzene	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
1,2-Dichlorobenzene	**< 0.50**	0.50	ug/L	EPA 8260B	01/03/2000
Dibromofluoromethane (Surr)	102		% Recovery	EPA 8260B	01/03/2000
1 2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	01/03/2000

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

CLS Labs

Table 5

Analysis Report: **Semivolatile Organic Compounds by GC/MS, EPA Method 625**
Separatory Funnel, EPA Method 3510

Client: **Joel Kiff**
720 Olive Drive,
Suite D
Davis, CA 95616

Project: **WINNER FORD**

Date Sampled: **12/28/99**
Date Received: **01/03/00**
Date Extracted: **01/04/00**
Date Analyzed: **01/04/00**
Date Reported: **01/07/00**
Client ID No.: **W-1228-MW2**

Project No.: **3002**
Contact: **JOEL KIFF**
Phone: **(530)297-4800**

Lab Contact: **James Liang**
Lab ID No.: **R6732-1A**
Job No.: **826732**
COC Log No.: **15710**
Batch No.: **27465**
Instrument ID: **MS003**
Analyst ID: **KALVINL**
Matrix: **WATER**

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	75.0	75
2-Fluorophenol	367-12-4	75.0	57
2,4,6-Tribromophenol	118-79-6	75.0	35
Nitrobenzene-d5	4665-60-0	50.0	91
2-Fluorobiphenyl	321-60-8	50.0	91
Terphenyl-d14	98904-43-9	50.0	111

Sample: **W-1228-MW2**

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Acenaphthene	83-32-9	ND	10	1.0
Acenaphthylene	208-96-8	ND	10	1.0
Anthracene	120-12-7	ND	10	1.0
Benzo(a)anthracene	56-55-3	ND	10	1.0
Benzo(b)fluoranthene	205-99-2	ND	10	1.0
Benzo(k)fluoranthene	207-08-9	ND	10	1.0
Benzo(g,h,i)perylene	191-24-2	ND	10	1.0
Benzo(a)pyrene	50-32-8	ND	10	1.0
Benzyl alcohol	100-51-6	ND	10	1.0
Bis(2-chloroethoxy)methane	111-91-1	ND	10	1.0
Bis(2-chloroethyl)ether	111-44-4	ND	10	1.0
Bis(2-chloroisopropyl)ether	108-60-1	ND	10	1.0
Bis(2-ethylhexyl)phthalate	117-81-7	2.1	1.0	1.0
4-Bromophenyl phenyl ether	101-55-3	ND	10	1.0
Butylbenzyl phthalate	85-68-7	ND	10	1.0
4-Chloroaniline	106-47-8	ND	10	1.0
2-Chloronaphthalene	91-58-7	ND	10	1.0
4-Chlorophenyl phenyl ether	7005-72-3	ND	10	1.0
Chrysene	218-01-9	ND	10	1.0
Dibenzo(a,h)anthracene	53-70-3	ND	10	1.0
Dibenzofuran	132-64-9	ND	10	1.0
Di-n-butylphthalate	84-74-2	ND	10	1.0
1,2-Dichlorobenzene	95-50-1	ND	10	1.0
1,3-Dichlorobenzene	541-73-1	ND	10	1.0
1,4-Dichlorobenzene	106-46-7	ND	10	1.0
3,3'-Dichlorobenzidine	91-94-1	ND	20	1.0
Diethylphthalate	84-66-2	ND	10	1.0
Dimethylphthalate	131-11-3	ND	10	1.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

cont. Table 5

Analysis Report: **Semivolatile Organic Compounds by GC/MS, EPA Method 625**
Separatory Funnel, EPA Method 3510

Client: **Joel Kiff**
720 Olive Drive,
Suite D
Davis, CA 95616

Project: **WINNER FORD**

Date Sampled: **12/28/99**
Date Received: **01/03/00**
Date Extracted: **01/04/00**
Date Analyzed: **01/04/00**
Date Reported: **01/07/00**
Client ID No.: **W-1228-MW2**

Project No.: **3002**
Contact: **JOEL KIFF**
Phone: **(530)297-4800**

Lab Contact: **James Liang**
Lab ID No.: **R6732-1A**
Job No.: **826732**
COC Log No.: **15710**
Batch No.: **27465**
Instrument ID: **MS003**
Analyst ID: **KALVINL**
Matrix: **WATER**

Sample: **W-1228-MW2(cont.)**

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
24DNT (2,4-Dinitrotoluene)	121-14-2	ND	10	1.0
26DNT (2,6-Dinitrotoluene)	606-20-2	ND	10	1.0
Di-n-octylphthalate	117-84-0	ND	10	1.0
Fluoranthene	206-44-0	ND	10	1.0
Fluorene	86-73-7	ND	10	1.0
Hexachlorobenzene	118-74-1	ND	10	1.0
Hexachlorobutadiene	87-68-3	ND	10	1.0
Hexachlorocyclopentadiene	77-47-4	ND	10	1.0
Hexachloroethane	67-72-1	ND	10	1.0
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	10	1.0
Isophorone	78-59-1	ND	10	1.0
2-Methylnaphthalene	91-57-6	ND	10	1.0
Naphthalene	91-20-3	ND	10	1.0
2-Nitroaniline	88-74-4	ND	25	1.0
3-Nitroaniline	99-09-2	ND	25	1.0
4-Nitroaniline	100-01-6	ND	25	1.0
NB (Nitrobenzene)	98-95-3	ND	10	1.0
N-Nitrosodiphenylamine	86-30-6	ND	10	1.0
N-Nitroso-di-n-propylamine	621-64-7	ND	10	1.0
Phenanthrene	85-01-8	ND	10	1.0
Pyrene	129-00-0	ND	10	1.0
1,2,4-Trichlorobenzene	120-82-1	ND	10	1.0
Benzoic Acid	65-85-0	ND	25	1.0
4-Chloro-3-methylphenol	59-50-7	ND	20	1.0
2-Chlorophenol	95-57-8	ND	10	1.0
2,4-Dichlorophenol	120-83-2	ND	10	1.0
2,4-Dimethylphenol	105-67-9	ND	10	1.0
2,4-Dinitrophenol	51-28-5	ND	25	1.0
2-Methyl-4,6-dinitrophenol	534-52-1	ND	25	1.0
2-Methylphenol	95-48-7	ND	10	1.0
3/4-Methylphenol	N/A	ND	10	1.0
2-Nitrophenol	88-75-5	ND	10	1.0
4-Nitrophenol	100-02-7	ND	25	1.0
Pentachlorophenol	87-86-5	ND	25	1.0
Phenol	108-95-2	ND	10	1.0
2,4,5-Trichlorophenol	95-95-4	ND	10	1.0
2,4,6-Trichlorophenol	88-06-2	ND	10	1.0

ND = Not detected at or above indicated Reporting Limit

Boring Number: MW-2

HORIZON ENVIRONMENTAL INC.

Job Number: 3002.11
Site Location: Winner Ford, Alameda, CA
Drilling Company: Mitchell Drilling Environmental
Drilled By: Scott & John
Date Drilled: 07/11/96
Logged By: D. Higgins

Drilling Method: 8-inch Hollow Stem Auger
Sampling Method: Split-Spoon Sampler
Total Depth: 25 Feet
Depth To Groundwater: 14.2 Feet

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading In PPM	Sampling Interval	Soil Description	USCS Classification	Graphic Representation	Well Construction	Comments
0							Asphalt (6") over base coarse (6").				Casing Installation Data:
1											
2							SILTY SAND, fine-grained.				2-inch PVC 0.020-inch screen
3											
4											
5	S-5	12 12 20	18	18	0.5		SILTY SAND, fine-grained, gray brown, dense, green gray staining on shoe sample.	SM			
6											
7											
8											
9											
10	S-10	8 10 11	12	12	2.6		blue green staining, medium dense.				
11											
12											
13											
14											
15	S-15	8 11 14	12	12	0.2			▽			
16											
17											
18											
19											
20	S-20	16 50	12	12	0		very dense.				
21											
22											
23											
24											
25	S-25	23 50	12	12	0		Total depth = 25 feet bgs.				
26											
27											
28											
29											
30											

Boring Number: MW-1

HORIZON ENVIRONMENTAL INC.

Job Number: 3002.11
Site Location: Winner Ford, Alameda, CA
Drilling Company: Mitchell Drilling Environmental
Drilled By: Scott & John
Date Drilled: 07/11/96
Logged By: D. Higgins

Drilling Method: 8-inch Hollow Stem Auger
Sampling Method: Split-Spoon Sampler
Total Depth: 25 Feet
Depth To Groundwater: 6.25 Feet

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading In PPM	Sampling Interval	Soil Description	USCS Classification	Graphic Representation	Well Construction	Comments
1						1	Asphalt (6") over base coarse (6").				
2						2	SILTY CLAY, orange brown, damp.				Casing Installation Data:
3						3					2-inch PVC
4						4					0.020-inch screen
5	S-5	14 15 17	18	18	354	5	SILTY CLAY, gray brown, dense, some blue green staining of soil.	SM			
6						6					
7						7					
8						8					
9						9					
10	S-10	10 11 13	18	18	0.5	10	orange brown, medium dense.				
11						11					
12						12					
13						13					
14						14					
15	S-15	13 14 19	18	18	1.2	15	dense.				
16						16					
17						17					
18						18					
19						19					
20	S-20	18 50+	11	11	1.8	20	orange mottling with blue green staining, very dense.				
21						21					
22						22					
23						23					
24						24					
25	S-25	22 50+	11	11	0.9	25	Total depth = 25 feet bgs.				
26						26					
27						27					
28						28					
29						29					
30						30					