



June 18, 1997

Susan L. Hugo
Senior Hazardous materials Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Dear Ms. Hugo:

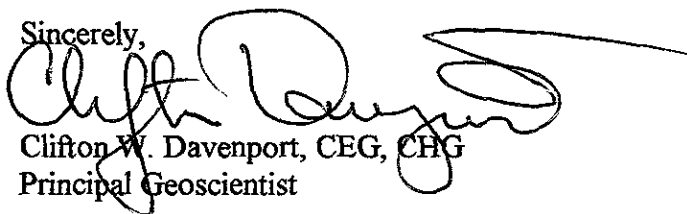
**RE: ADDITIONAL SITE CHARACTERIZATION AND RISK ASSESSMENT REPORT,
4343 SAN PABLO AVENUE, EMERYVILLE, CALIFORNIA**

McLaren/Hart is pleased to submit the above-referenced report for your consideration. The report describes the results of field activities conducted between May 22, 1997 and June 11, 1997 in accordance with activities specified in the Workplan approved by ACDEH at our May 14, 1997 meeting. In addition, the report presents findings of a risk assessment for the Site, using methodologies discussed in the Workplan and as agreed-upon in meetings of June 9 and 10, 1997.

The report concludes that no further remedial activities are warranted at the Site. As you know, the property is slated for sale at a bankruptcy auction on July 1, 1997. A letter from the ACDEH identifying what additional measures, if any, are needed at the Site will be very important to the bankruptcy court.

Thank you for the courtesy and flexibility you and Ms. Logan have provided to this project. If you have any questions, please contact me at (510) 748-5654.

Sincerely,



Clifton W. Davenport, CEG, CHG
Principal Geoscientist

cc: Madhulla Logan, ACDEH
Ron Gerber, City of Emeryville Redevelopment Agency
file 030602368001.001

**ADDITIONAL SITE CHARACTERIZATION
AND
RISK ASSESSMENT REPORT**

Former Standards Brands Paint Store # 147
4343 San Pablo Avenue
Emeryville, California

Prepared by:

McLaren/Hart, Inc.
1135 Atlantic Avenue
Alameda, California 94501

0617TC1.RPT



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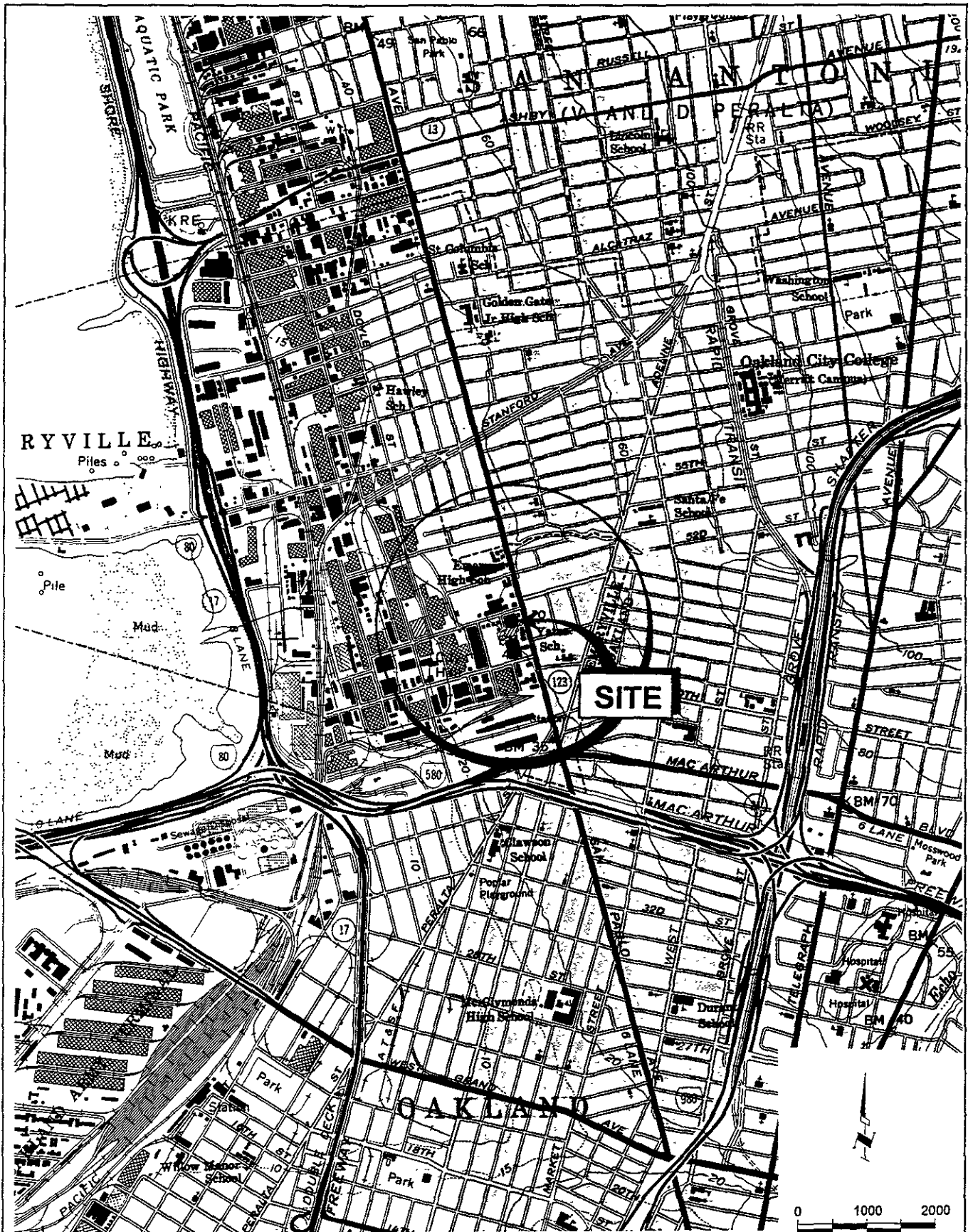
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9.0 REFERENCES

- American Society of Testing Materials (ASTM), (1995), *Risk-Based Corrective Action Applied at Petroleum Release Sites*, ASTM, Philadelphia, PA.
- Environ, 1995, Subsurface Investigation Report, *Standard Brands Paint, Emeryville, California*, prepared for Emeryville Redevelopment Agency, August 18, 1995.
- Environ, 1993, Subsurface Investigation Report, *Standard Brands Property, Emeryville, California*, letter report to Kaiser Foundation Health Plan, Inc., December 3, 1993.
- Enviropro, 1994, Subsurface Environmental Investigation Report for 4343 San Pablo Avenue, Emeryville, California, prepared for Standard Brands Paint Company, August 31, 1994.
- McLaren/Hart, 1997, Workplan for Soil Sampling and Risk Assessment at Former Standard Brands Paint Store No. 147, 4343 San Pablo Avenue, Emeryville, California, submitted to Alameda County Department of Environmental Health, May 12, 1997.
- U.S. Environmental Protection Agency Office of Underground Storage Tank (USEPA UST), 1995, *Risk-Based Decision-Making in UST Corrective Action Programs*, OSWER Directive 9610.17. USEPA, Washington, D.C.
- Weiss, 1994, Subsurface Investigation at the New Century Beverage Company Beverage Facility, 1150 Park Avenue, Emeryville, California, July 28, 1994.

FIGURES

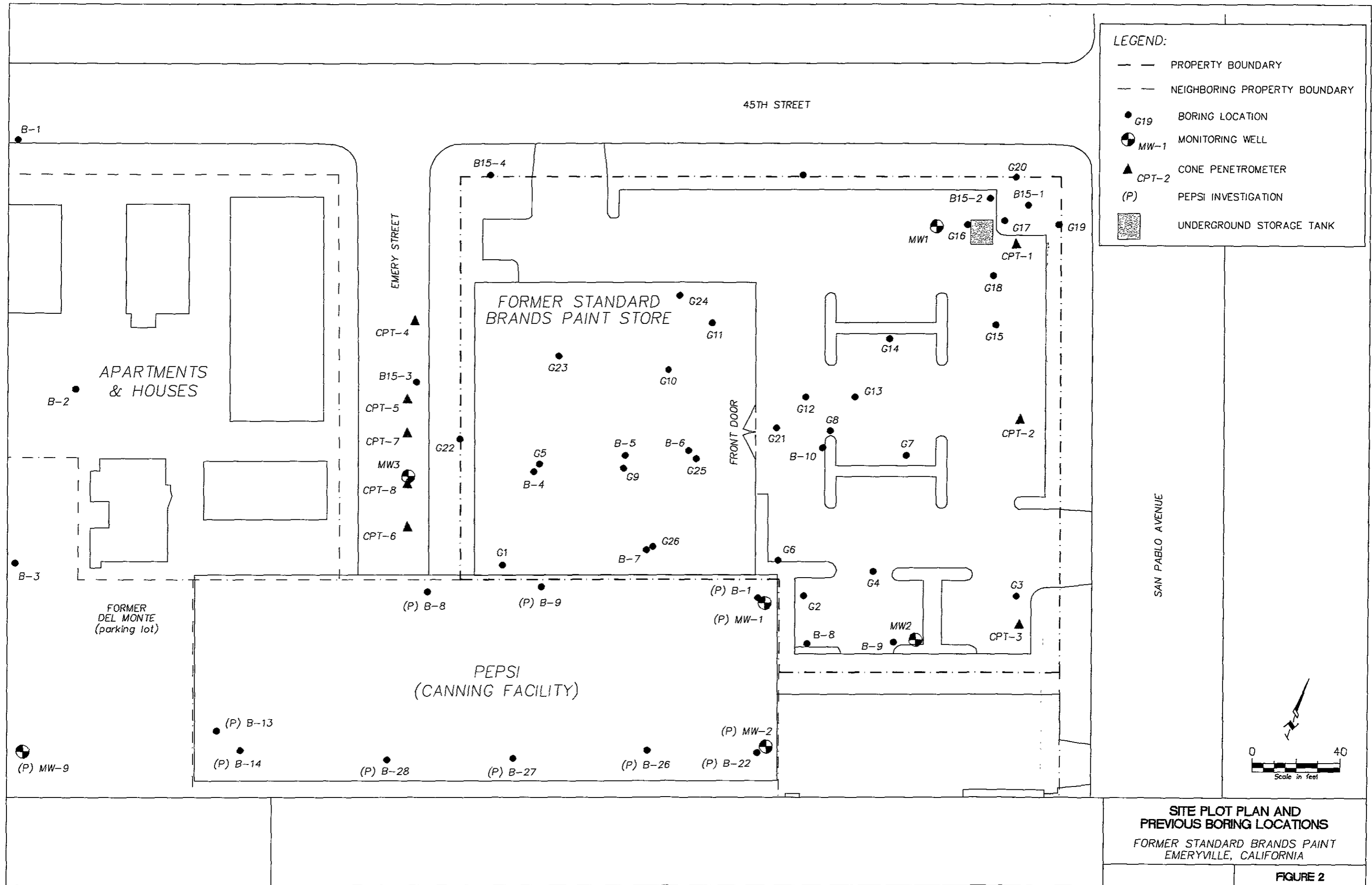


MAP SOURCE: USGS 7.5' OAKLAND WEST, CA QUADRANGLE, 1959 (PHOTOREVISED 1980).

APPROX. SCALE: (FEET)

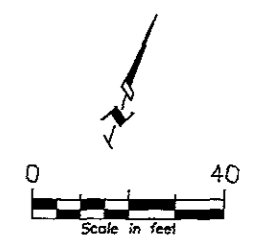


FIGURE 1
SITE LOCATION MAP
FORMER STANDARD BRANDS PAINT STORE
EMERYVILLE, CALIFORNIA



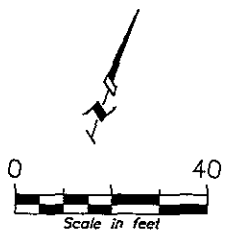
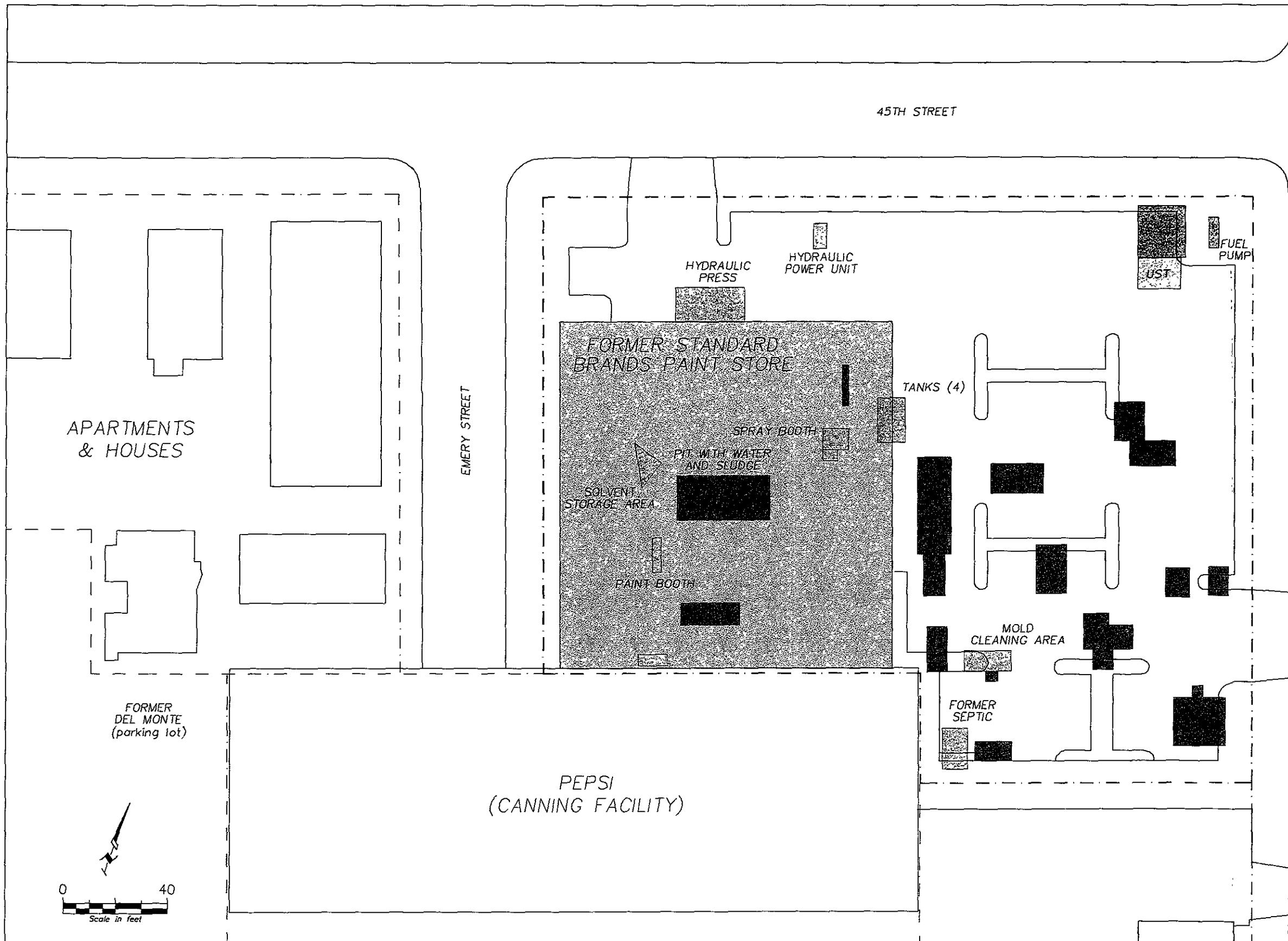
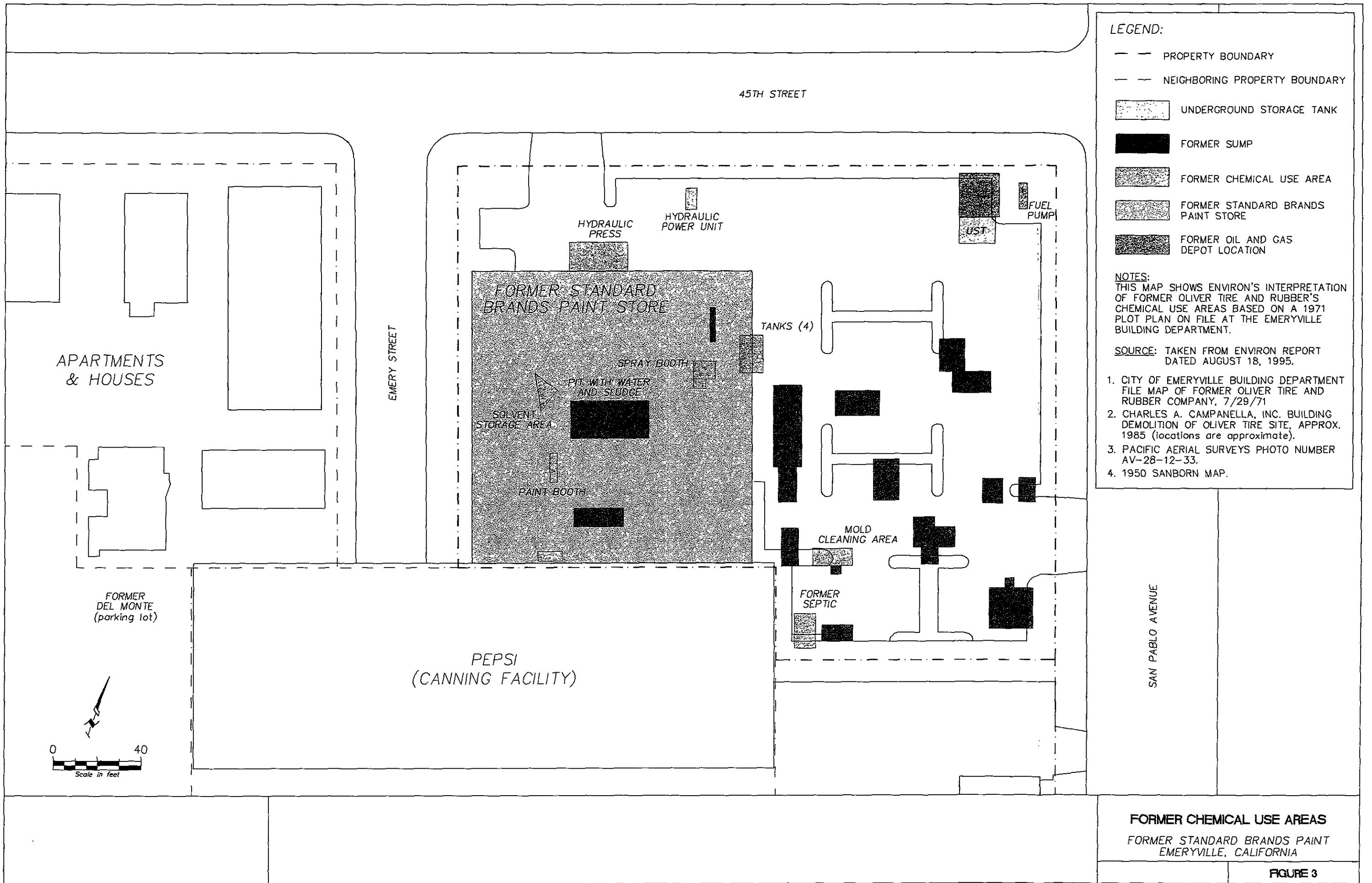
LEGEND:

- — — PROPERTY BOUNDARY
- - - NEIGHBORING PROPERTY BOUNDARY
- G19 BORING LOCATION
- ⊕ MW-1 MONITORING WELL
- ▲ CPT-2 CONE PENETROMETER
- (P) PEPSI INVESTIGATION
- UNDERGROUND STORAGE TANK



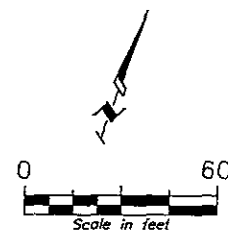
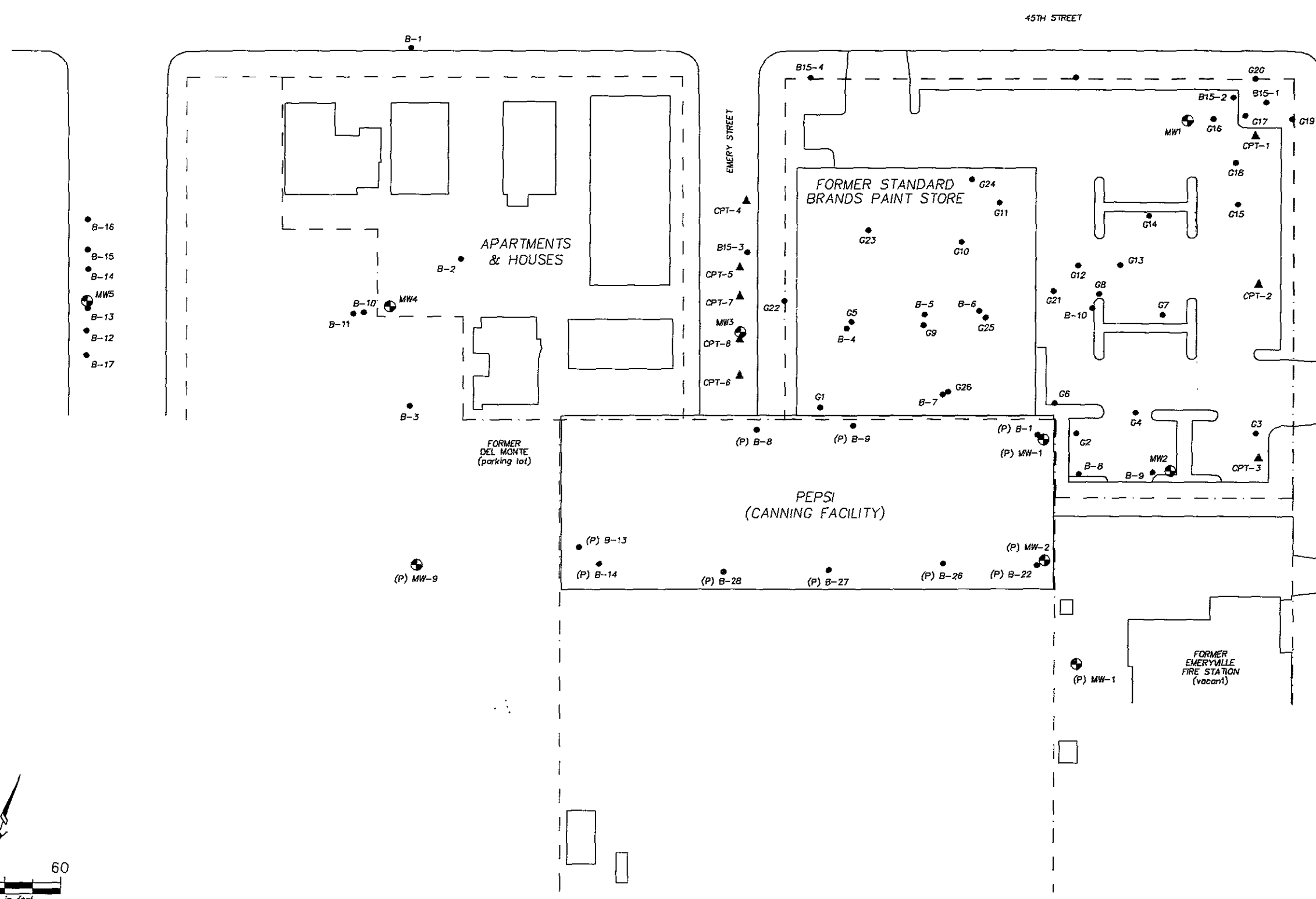
**SITE PLOT PLAN AND
PREVIOUS BORING LOCATIONS**
FORMER STANDARD BRANDS PAINT
EMERYVILLE, CALIFORNIA

FIGURE 2



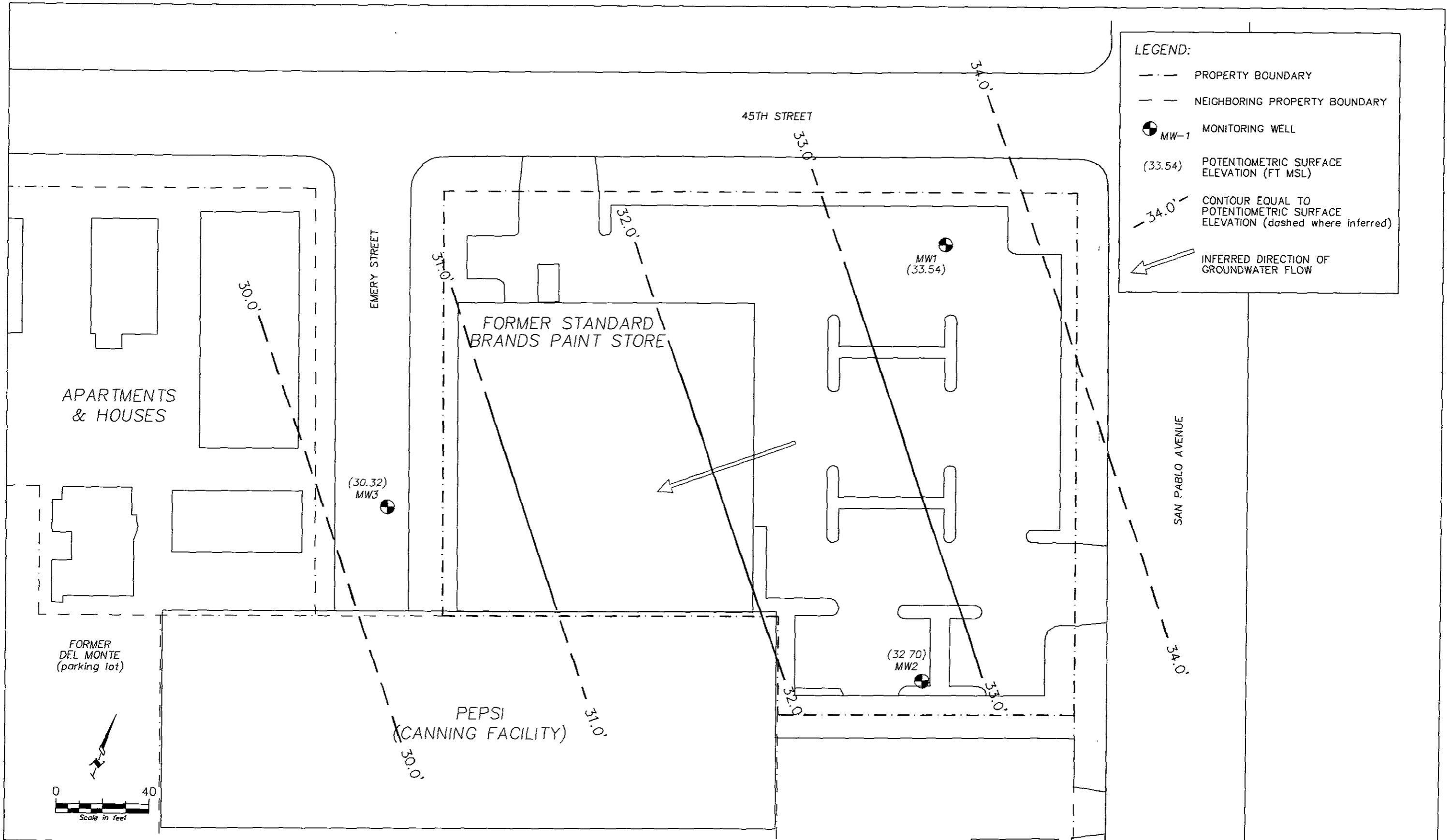
LEGEND:

- - - PROPERTY BOUNDARY
- - - NEIGHBORING PROPERTY BOUNDARY
- G19 BORING LOCATION
- ⊕ MW-1 MONITORING WELL
- ▲ CPT-2 CONE PENETROMETER
- (P) PEPSI INVESTIGATION
- AREAS OF POTENTIAL CONCERN, TPH AFFECTED SOIL

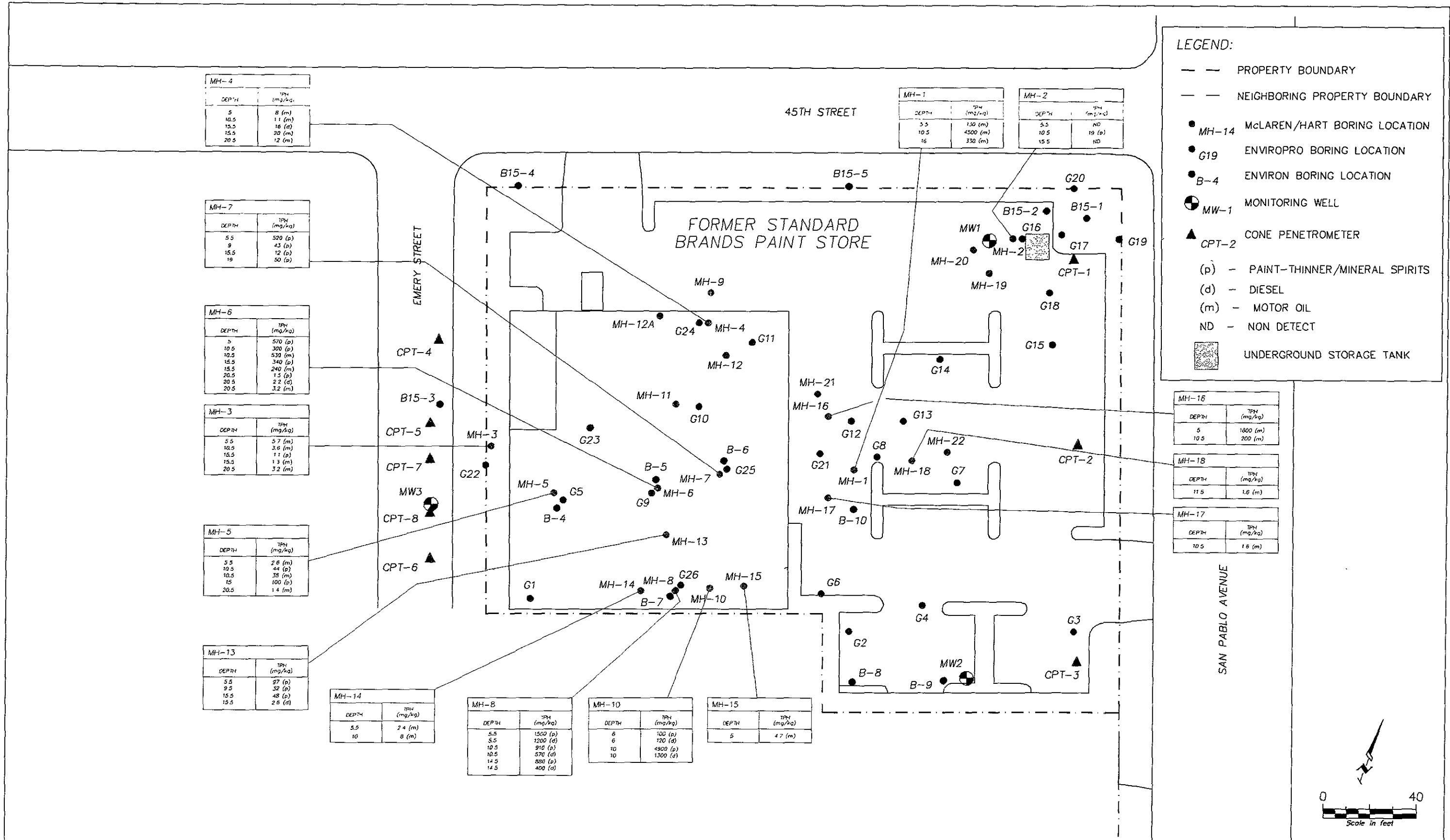


AREAS OF POTENTIAL CONCERN
 FORMER STANDARD BRANDS PAINT
 EMERYVILLE, CALIFORNIA

FIGURE 4



POTENTIOMETRIC SURFACE ELEVATION CONTOUR MAP
 (MAY 21, 1997)
 FORMER STANDARD BRANDS PAINT
 EMERYVILLE, CALIFORNIA



LEGEND:

- PROPERTY BOUNDARY
- NEIGHBORING PROPERTY BOUNDARY
- MH-14 McLAREN/HART BORING LOCATION
- G19 ENVIROPRO BORING LOCATION
- B-4 ENVIRON BORING LOCATION
- ⊕ MW-1 MONITORING WELL
- ▲ CPT-2 CONE PENETROMETER
- (p) - PAINT-THINNER/MINERAL SPIRITS
- (d) - DIESEL
- (m) - MOTOR OIL
- ND - NON DETECT
- ▣ UNDERGROUND STORAGE TANK

MH-4

DEPTH	TPH (mg/kg)
5	8 (m)
10.5	11 (m)
15.5	16 (d)
15.5	20 (m)
20.5	12 (m)

MH-1

DEPTH	TPH (mg/kg)
5.5	130 (m)
10.5	4500 (m)
16	330 (m)

MH-2

DEPTH	TPH (mg/kg)
5.5	ND
10.5	19 (p)
15.5	ND

MH-7

DEPTH	TPH (mg/kg)
5.5	520 (p)
9	43 (p)
15.5	12 (p)
19	50 (p)

MH-6

DEPTH	TPH (mg/kg)
5	570 (p)
10.5	300 (p)
10.5	530 (m)
15.5	340 (p)
15.5	240 (m)
20.5	1.5 (p)
20.5	2.2 (d)
20.5	3.2 (m)

MH-3

DEPTH	TPH (mg/kg)
5.5	5.7 (m)
10.5	3.6 (m)
15.5	1.1 (p)
15.5	1.3 (m)
20.5	3.2 (m)

MH-5

DEPTH	TPH (mg/kg)
5.5	2.6 (m)
10.5	44 (p)
10.5	35 (m)
15	100 (p)
20.5	1.4 (m)

MH-13

DEPTH	TPH (mg/kg)
5.5	97 (p)
9.5	32 (p)
15.5	48 (p)
15.5	2.9 (d)

MH-14

DEPTH	TPH (mg/kg)
5.5	2.4 (m)
10	8 (m)

MH-8

DEPTH	TPH (mg/kg)
5.5	1500 (p)
5.5	1200 (d)
10.5	910 (p)
10.5	570 (d)
14.5	880 (p)
14.5	400 (d)

MH-10

DEPTH	TPH (mg/kg)
6	100 (p)
6	120 (d)
10	4900 (p)
10	1300 (d)

MH-15

DEPTH	TPH (mg/kg)
5	4.7 (m)

MH-16

DEPTH	TPH (mg/kg)
5	1800 (m)
10.5	200 (m)

MH-18

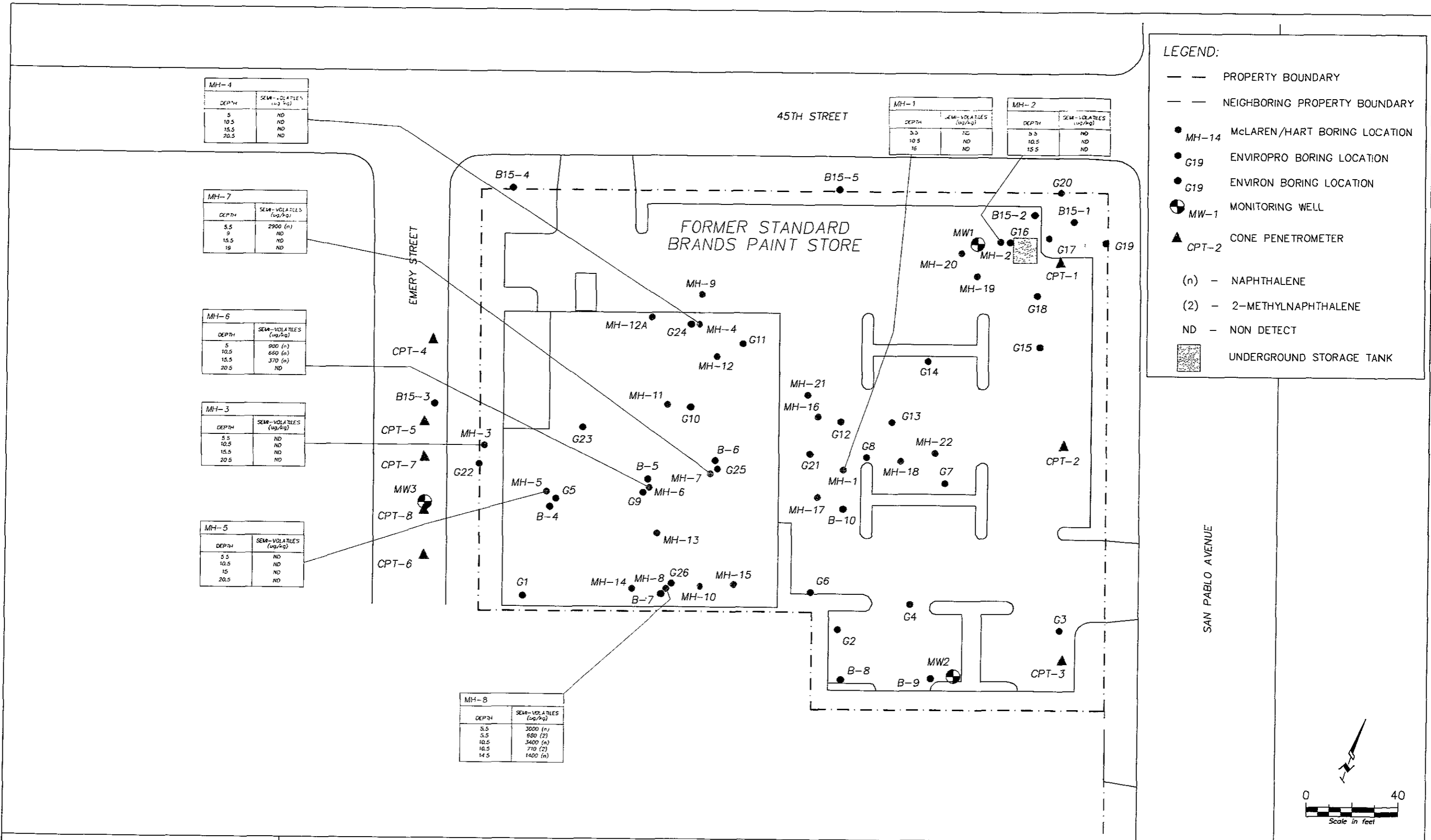
DEPTH	TPH (mg/kg)
11.5	1.6 (m)

MH-17

DEPTH	TPH (mg/kg)
10.5	1.6 (m)

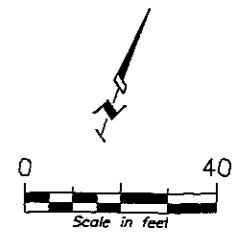
**SOIL ANALYTICAL RESULTS
(TOTAL PETROLEUM HYDROCARBONS)**
FORMER STANDARD BRANDS PAINT
EMERYVILLE, CALIFORNIA

FIGURE 6



SOIL ANALYTICAL RESULTS (SEMI-VOLATILES)
FORMER STANDARD BRANDS PAINT
EMERYVILLE, CALIFORNIA

FIGURE 7



MH-4		
TPH (mg/L)	VOLATILES (ug/L)	PNAs (ug/L)
320 (m)	58 (TCE) 160 (cis) 53 (trans)	Pyrene Benzo(a)anthracene 2

MH-2	
TPH (mg/L)	VOLATILES (ug/L)
12 (p)	ND

MH-4					
TPH (mg/L)	SEMI-VOLATILES (ug/L)	VOLATILES (ug/L)	AROMATIC VOLATILES (ug/L)	METALS (ug/L)	PNAs (ug/L)
88 (d)	ND	ND	ND	61 (As) 340 (Ba) 72 (Ni)	Naphthalene 2 Acenaphthylene 3 Acenaphthene 4 Fluorene 12 Phenanthrene 19 Anthracene 13 Fluoranthene 7 Pyrene 36 Benzo(a)anthracene 15 Chrysene 33 Benzo(b)fluorene 9 Benzo(k)fluoranthene 6 Benzo(a,h)perylene 2

MH-6	
TPH (mg/L)	VOLATILES (ug/L)
96 (p)	ND
100 (m)	

MW3	
TPH (mg/L)	AROMATIC VOLATILES (ug/L)
0.83 (p)	0.21 (d)

MH-5	
SEMI-VOLATILES (ug/L)	METALS (ug/L)
ND (n)	ND (2)

MH-14	
TPH (mg/L)	VOLATILES (ug/L)
12 (p)	1300 (n)

MH-8	
TPH (mg/L)	VOLATILES (ug/L)
300 (p)	ND
190 (d)	

MH-10	
TPH (mg/L)	VOLATILES (ug/L)
180 (p)	ND
40 (d)	

MH-15	
TPH (mg/L)	
26 (p)	

MW2	
TPH (mg/L)	AROMATIC VOLATILES (ug/L)
12 (p)	1300 (n)

LEGEND:

- PROPERTY BOUNDARY
- NEIGHBORING PROPERTY BOUNDARY
- MH-14 McLAREN/HART BORING LOCATION
- G19 BORING LOCATION
- ⊙ MW-1 MONITORING WELL
- ▲ CPT-2 CONE PENETROMETER

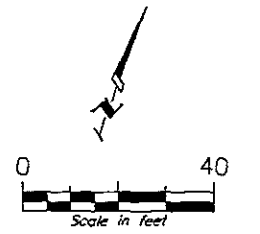
(p) - PAINT-THINNER/MINERAL SPIRITS
 (d) - DIESEL
 (m) - MOTOR OIL
 (TCE) - TRICHLOROETHENE
 (cis) - cis-1,2-DICHLOROETHENE
 (trans) - trans-1,2-DICHLOROETHENE
 (x) - XYLENES
 (As) - ARSENIC
 (Ba) - BARIUM
 (Ni) - NICKEL

MW1	
TPH (mg/L)	AROMATIC VOLATILES (ug/L)
ND	ND

MH-21	
VOLATILES (ug/L)	
27 (TCE) 81 (cis) 75 (x)	

MH-21	
VOLATILES (ug/L)	
ND	

SAN PABLO AVENUE



GROUNDWATER ANALYTICAL RESULTS
 FORMER STANDARD BRANDS PAINT
 EMERYVILLE, CALIFORNIA

FIGURE 8

TABLES

TABLE 1
DEPTHS TO FIRST ENCOUNTERED GROUNDWATER
FORMER STANDARD BRANDS PAINT STORE NO. 147
4343 SAN PABLO AVE, EMERYVILLE, CALIFORNIA

Boring Location	Depth to Groundwater (ft. bgs)
MH-1	16
MH-2	16
MH-3	Dry
MH-4	23
MH-5	Dry
MH-6	20.5
MH-7	Dry
MH-8	14.5
MH-9	21
MH-10	14
MH-11	Dry
MH-12	17.5
MH-12A	17
MH-13	Dry
MH-14	14
MH-15	9
MH-16	Dry
MH-17	Dry
MH-18	Dry
MH-19	21*
MH-20	20*
MH-21	24*
MH-22	24*

* = probe pushed into groundwater and backed off for sampling

(ft. bgs) = feet below ground surface

TABLE 2
 WELL CONSTRUCTION DETAILS AND GROUNDWATER ELEVATIONS
 FORMER STANDARD BRAND PAINT STORE NO.147
 4343 SAN PABLO AVE, EMERYVILLE, CA

Monitoring Well Location	Date	T.O.C	D.T.W.	G.W.E.	Screened Interval (bgs)
MW-1	5/21/97	40.84'	7.3'	33.54'	7 - 17'
MW-2	5/21/97	42.38'	9.68'	32.7'	5 - 15'
MW-3	5/21/97	38.7'	8.35'	30.32'	5 - 15'

T.O.C. - Top of Casing
 D.T.W. - Depth to Water
 G.W.E. - Ground Water Elevation
 bgs = below ground surface

TABLE 3
SOIL AND GROUND WATER SAMPLING PARAMETERS
FORMER STANDARD BRANDS PAINT STORE NO. 147
4343 SAN PABLO AVE, EMERYVILLE, CALIFORNIA

Sampling Location	Sample Depth	Sample Date	Matrix		Analyses						
			Soil	GW	TPH	VOCs	SVOCs	AVOCs	Metals	Geotech	HFS
MH-1	2	5/22/97	X								X
	5.5	5/22/97	X		X		X				
	8	5/22/97	X							X	
	10.5	5/22/97	X		X		X				
	15	5/22/97	X							X	
	16	5/22/97	X		X	X	X				
	16	5/22/97		X	X	X	X				X
MH-2	5.5	5/22/97	X		X		X				
	10.5	5/22/97	X		X	X	X				
	15.5	5/22/97	X		X	X	X				
	16	5/22/97		X	X	X					
MH-3	5.5	5/22/97	X		X		X				
	10.5	5/22/97	X		X		X				
	15.5	5/22/97	X		X	X	X				
	20.5	5/22/97	X		X		X				
MH-4	5	5/21/97	X		X		X				
	10.5	5/21/97	X		X		X				
	15.5	5/21/97	X		X		X				
	20.5	5/21/97	X		X	X	X				
	23	5/21/97		X	X	X	X	X	X		X
MH-5	2	5/22/97	X								X
	5.5	5/22/97	X		X		X				
	8	5/22/97	X							X	
	10.5	5/22/97	X		X	X	X				
	15	5/22/97	X		X		X				
	16	5/22/97	X							X	
	20.5	5/22/97	X		X		X				
(11.5)	6/11/97		X			X					
MH-6	5	5/21/97	X		X	X	X				
	10.5	5/21/97	X		X		X				
	15.5	5/21/97	X		X		X				
	20.5	5/21/97	X		X		X				
	21	5/21/97		X	X	X					
MH-7	5.5	5/21/97	X		X	X	X				
	9	5/21/97	X		X		X				
	15.5	5/21/97	X		X		X				
	19	5/21/97	X		X		X				
MH-8	2	5/22/97	X								X
	5.5	5/22/97	X		X		X				
	8	5/22/97	X							X	
	10.5	5/22/97	X		X	X	X				
	11	5/22/97	X							X	
	14.5	5/22/97	X		X		X				
	14.5	5/22/97		X	X	X					
MH-10	6	5/30/97	X								
	10	5/30/97	X		X						
	14	5/30/97		X	X	X					
MH-13	5.5	6/2/97	X		X						
	9.5	6/2/97	X		X						
	15.5	6/2/97	X		X						
MH-14	5.5	6/2/97	X		X						
	10	6/2/97	X		X						
	14	6/2/97		X	X		X				
MH-15	5	6/2/97	X		X						
	9.0	6/2/97		X	X						
MH-16	5	6/2/97	X		X						
	10.5	6/2/97	X		X						
	15.5	6/2/97	X								
MH-17	10.5	6/2/97	X		X						
MH-18	11.5	6/2/97	X		X						
MH-21	24	6/11/97		X		X					
MH-22	24	6/11/97		X		X					
MW-1	7.3	5/22/97		X	X			X			
MW-2	9.7	5/22/97		X	X			X			
MW-3	8.4	5/22/97		X	X			X			

- | | | | |
|--------|--|---------|--|
| GW | - Grab ground water | AVOCs | - Aromatic volatile organic compounds (EPA 8020) |
| TPH | - Total petroleum hydrocarbons (EPA 8015) | Metals | - Dissolved CAM Metals (EPA 6010/7000) |
| VOCs | - Volatile organic compounds (EPA 8240) | Geotech | - Soil geotechnical analyses. |
| SVOCs | - Semi volatile organic compounds (EPA 8270) | HFS | - Hydrocarbon fingerprint scan. |
| (11.5) | - Static water level measurement, borehole initially dry | | |

TABLE 4
SOIL ANALYTICAL RESULTS
FORMER STANDARD BRANDS PAINT STORE NO. 147
4343 SAN PABLO AVE, EMERYVILLE, CALIFORNIA

Boring Location: Sample Depth:	MH-1			MH-2			MH-3				MH-4			
	5.5	10.5	16	5.5	10.5	15.5	5.5	10.5	15.5	20.5	5	10.5	15.5	20.5
TPH (mg/kg)														
Mineral Spirits	<100	<500	<200	<5	19	<1	<1	<1	1.1	<1	<5	<1	<10	<5
Diesel	<100	<500	<200	<5	<10	<1	<1	<1	<1	<1	<5	<1	16	<5
Motor Oil	130	4500	330	<5	<10	<1	5.7	3.6	1.3	3.2	8	1.1	20	12
Semi-Volatiles (ug/kg)														
Naphthalene	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330
2-methylnaphthalene	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330
Volatiles (ug/kg)														
	--	--	ND	--	ND	--	--	--	ND	--	--	--	--	ND

Boring Location: Sample Depth:	MH-5				MH-6				MH-7				MH-8		
	5.5	10.5	15	20.5	5	10.5	15.5	20.5	5.5	9	15.5	19	5.5	10.5	14.5
TPH (mg/kg)															
Mineral Spirits	<1	44	100	<1	570	300	340	1.5	520	43	12	50	1500	910	880
Diesel	<1	<20	<50	<1	<200	<200	<100	2.2	<100	<10	<5	<10	1200	570	400
Motor Oil	2.6	35	<50	1.4	<200	530	240	3.2	<100	<10	<5	<10	<400	<400	<400
Semi-Volatiles (ug/kg)															
Naphthalene	<330	<330	<330	<330	900	660	370	<330	2900	<330	<330	<330	3000	3400	1400
2-methylnaphthalene	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	680	710	<330
Volatiles (ug/kg)															
	--	ND	--	--	ND	--	--	--	ND	--	--	--	--	ND	--

TABLE 4
SOIL ANALYTICAL RESULTS
FORMER STANDARD BRANDS PAINT STORE NO. 147
4343 SAN PABLO AVE, EMERYVILLE, CALIFORNIA

Boring Location: Sample Depth:	MH-10		MH-13			MH-14		MH-15	MH-16		MH-17	MH-18
	6	10	5.5	9.5	15.5	5.5	10	5	5	10.5	10.5	11.5
TPH (mg/kg)												
Mineral Spirits	100	4900	97	32	48	<1	<1	<1	<200	<20	<5	<1
Diesel	120	1300	<10	<10	2.6	<1	<1	<1	<200	<20	<5	<1
Motor Oil	<100	<1000	<10	<10	<1	2.4	8	4.7	1800	200	5.3	1.6
Semi-Volatiles (ug/kg)												
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--
2-methylnaphthalene	--	--	--	--	--	--	--	--	--	--	--	--
Volatiles (ug/kg)												
	--	--	--	--	--	--	--	--	--	--	--	--

- ND - Non detect (laboratory reporting limit variable).
 -- - Not analyzed.
 TPH - Total petroleum hydrocarbons by Modified EPA Method 8015.
 Semi-Volatiles - Semi-volatile organic compounds by EPA Method 8270 (no other compounds other than those listed detected).
 Volatiles - Volatile organic compounds by EPA Method 8240 (no compounds detected).
 mg/kg - Milligrams per kilogram.
 ug/kg - Micrograms per kilogram

TABLE 5
DEPTH TO PRODUCT AND GROUNDWATER MEASUREMENTS
FORMER STANDARD BRANDS PAINT STORE NO. 147
4343 SAN PABLO AVE, EMERYVILLE, CALIFORNIA

Boring Location	2-Jun-97			9-Jun-97		
	DTP	DTW	PT	DTP	DTW	PT
MH-1	—	8.3	—	—	8.38	—
MH-2	—	7.72	—	—	7.73	—
MH-4	10.95	10.96	0.01	10.69	10.7	0.01
MH-5	—	12.45	—	—	11.5	—
MH-6	10.98	11	0.02	11.03	11.05	0.02
MH-8	—	10.91	—	—	10.91	—
MH-9	—	9.75	—	—	9.92	—
MH-10	—	10.75	—	—	10.75	—
MH-11	—	DRY	—	—	13.95	—
MH-12	17.92	17.93	0.01	10.14	10.15	0.01
MH-12A	—	DRY	—	14.21	14.22	0.01
MH-13	—	DRY	—	—	13.54	—
MH-14	—	10.95	—	—	10.98	—
MH-15	—	10.62	—	—	10.61	—
MH-16	—	DRY	—	13.68	13.69	0.01
MH-17	—	DRY	—	—	—	—
MH-18	—	DRY	—	12.5	12.51	0.01
MH-19	—	4.41	—	8.07	8.08	0.01
MH-20	—	3.91	—	—	—*	—

- DTP - Depth to product.
DTW - Depth to water.
PT - Product Thickness.
— - No product present.
—* - Borehole collapsed, unable to collect measurement.

TABLE 6
GROUND WATER ANALYTICAL RESULTS
FORMER STANDARD BRANDS PAINT STORE NO. 147
4343 SAN PABLO AVE, EMERYVILLE, CALIFORNIA

Boring Location:	MH-1	MH-1*	MH-2	MH-4	MH-4*	MH-5	MH-6	MH-8	MH-10	MH-14	MH-15	MH-21	MH-22	MW-1	MW-2	MW-3
<i>TPH (mg/L)</i>																
Mineral Spirits	<25	--	1.2	<20	--	--	96	300	180	12	2.6	--	--	<0.05	<0.05	0.83
Diesel	<25	--	<0.5	88	--	--	<6.1	190	40	<2	<0.5	--	--	<0.05	<0.05	0.21
Motor Oil	320	--	<0.5	47	--	--	100	<24	<20	<2	<0.5	--	--	<0.05	<0.05	<0.05
<i>Semi-Volatiles (ug/L)</i>																
Naphthalene	--	<1	--	<100	2	<10	--	--	--	1300	<10	--	--	--	--	--
2-methylnaphthalene	--	--	--	<100	--	<10	--	--	--	<1000	<10	--	--	--	--	--
Acenaphthylene	--	<1	--	--	3	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	--	<1	--	--	4	--	--	--	--	--	--	--	--	--	--	--
Fluorene	--	<1	--	--	12	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	--	<1	--	--	19	--	--	--	--	--	--	--	--	--	--	--
Anthracene	--	<1	--	--	13	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	--	<1	--	--	7	--	--	--	--	--	--	--	--	--	--	--
Pyrene	--	2	--	--	36	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	--	1	--	--	15	--	--	--	--	--	--	--	--	--	--	--
Chrysene	--	<1	--	--	33	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	--	<1	--	--	9	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	--	<1	--	--	6	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	--	<1	--	--	<1	--	--	--	--	--	--	--	--	--	--	--
Ideno(1,2,3-cd)pyrene	--	<1	--	--	<1	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	--	<1	--	--	<1	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	--	<1	--	--	2	--	--	--	--	--	--	--	--	--	--	--

TABLE 6
GROUND WATER ANALYTICAL RESULTS
FORMER STANDARD BRANDS PAINT STORE NO. 147
4343 SAN PABLO AVE, EMERYVILLE, CALIFORNIA

Boring Location:	MH-1	MH-1*	MH-2	MH-4	MH-4*	MH-5	MH-6	MH-8	MH-10	MH-14	MH-15	MH-21	MH-22	MW-1	MW-2	MW-3
Volatiles (ug/L)																
TCE	58	--	<5	<5	--	--	<5	<5	<250	--	--	27	<5	--	--	--
Cis-1,2-DCE	160	--	<5	<5	--	--	<5	<5	<250	--	--	81	<5	--	--	--
Trans-1,2-DCE	53	--	<5	<5	--	--	<5	<5	<250	--	--	<5	<5	--	--	--
Xylenes	<5	--	<5	<5	--	--	<5	<5	<250	--	--	7.5	<5	--	--	--
Aromatic Volatiles (ug/L)																
	--	--	--	ND	--	--	--	--	--	--	--	--	--	ND	ND	ND
Metals (ug/L)																
Arsenic	--	--	--	6.1	--	--	--	--	--	--	--	--	--	--	--	--
Barium	--	--	--	340	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	72	--	--	--	--	--	--	--	--	--	--	--	--

- * - Analysis for PNA Compounds by 8270 SIM Method
- ND - Non detect (laboratory reporting limit variable).
- - Not analyzed.
- TPH - Total petroleum hydrocarbons by Modified EPA Method 8015.
- Semi-Volatiles - Semi-volatile organic compounds by EPA Method 8270 (no other compounds other than those listed detected).
- Volatiles - Volatile organic compounds by EPA Method 8240 (no other compounds other than those listed detected).
- Aromatic Volatiles - Aromatic Volatile organic compounds by EPA Method 8020 (no other compounds other than those listed detected).
- Metals - Dissolved CAM metals by EPA Methods 6010/7000 Series.
- mg/L - Milligrams per liter.
- ug/L - Micrograms per liter.

TABLE 7
SOIL GEOTECHNICAL ANALYTICAL RESULTS
FORMER STANDARD BRANDS PAINT STORE NO. 147
4343 SAN PABLO AVE, EMERYVILLE, CALIFORNIA

Boring Location: Sample Depth:	MH-1			MH-5			MH-8		
	2	8	15	2	8	16	2	8	11
Specific Gravity	2.57	2.56	2.52	2.68	2.56	2.57	2.51	2.60	2.57
Dry Unit Weight (pcf)	111.8	111.1	108.1	116.2	107.0	108.2	105.2	104.2	107.7
Water Content (%)	10.6	17.3	21.5	5.9	20.6	17.8	19.4	19.9	21.0
Porosity (%)	30.3	30.5	31.3	30.6	33.1	32.5	32.9	35.9	33.0
TOC (mg/kg)	24000	5200	1000	21000	6000	2100	22000	5200	4000

pcf - Pounds per cubic foot.
mg/kg - Milligrams per kilogram.
TOC - Total organic carbon.

Table 8
Summary of RBCA SSTLs

SSTLs for Groundwater

Chemical	Volatilization to Outdoor Air (mg/L)		Volatilization to Indoor Air (mg/L) ^a		Site Conc. (mg/L)
	RME	Average	RME	Average	Max. 1996
cis-1,2-Dichloroethene	>S	>S	>S	>S	38*
trans-1,2-Dichloroethene	>S	>S	>S	>S	12*
Trichloroethene	>S	>S	22	63	16*
Xylenes, Mixed	>S	>S	>S	>S	0.03
Napthalene	>S	>S	>S	>S	1.3

* Site average concentration in groundwater

^a The lesser of the cancer and noncancer SSTLs are presented here.

SSTLs for Surface Soil

Chemical	Direct Exposure Pathways(mg/kg)		Site Soil Concentration(mg/kg, <= 2 ft bgs)	
	RME	Average	Maximum	Mean
cis-1,2-Dichloroethene	1091	RES	ND	ND
trans-1,2-Dichloroethene	RES	RES	ND	ND
Trichloroethene	588	RES	ND	ND
Xylenes, Mixed	RES	RES	ND	ND
Napthalene	RES	RES	3.4	0.4

Notes and Abbreviations

>S: Calculated SSTL is greater than pure chemical solubility in water

RES: Calculated SSTL is greater than the equilibrium soil saturation concentrations (C_{sat})

ND: Not Detected

N/A: Not Analyzed for this compound

Table 8 (continued)
Summary of RBCA SSTLs

SSTLs for Subsurface Soil

Chemical	Volatilization to Outdoor Air (mg/kg)		Volatilization to Indoor Air (mg/kg)		Site Soil Concentration(mg/kg, 2 ft < x <= 16 ft bgs)	
	RME	Average	RME	Average	Maximum	Mean
cis-1,2-Dichloroethene	RES	RES	RES	RES	ND	ND
trans-1,2-Dichloroethene	RES	RES	RES	RES	ND	ND
Trichloroethene	RES	RES	43	51	ND	ND
Xylenes, Mixed	RES	RES	RES	RES	ND	ND
Naphthalene	RES	RES	RES	RES	3.4	0.4

Notes and Abbreviations

>S: Calculated SSTL is greater than pure chemical solubility in water

RES: Calculated SSTL is greater than the equilibrium soil saturation concentrations (Cset)

ND: Not Detected

N/A: Not Analyzed for this compound

APPENDIX A

McLAREN/HART WORKPLAN

May 12, 1997

Susan Hugo
Alameda County
Department of Environmental Health
1131 Harborbay Parkway
Alameda, CA 94502-6577

**RE: DRAFT WORKPLAN FOR SOIL SAMPLING AND RISK ASSESSMENT AT FORMER
STANDARD BRANDS PAINT STORE NO. 147, 4343 SAN PABLO AVENUE, EMERYVILLE,
CALIFORNIA**

Dear Ms. Hugo:

Attached please find a draft workplan describing proposed soil sampling and risk assessment activities for the former Standard Brands Paint Store #147 property, located as noted above (Subject Site). The proposed scope includes field work, evaluation of low risk status, performance of a risk assessment, and discussions with your agency and the Regional Water Quality Control Board (RWQCB) to determine cleanup levels and provide the direction for the most timely closure of the Subject Site. The City of Emeryville Redevelopment Agency will participate in all discussions about the scope of work required to achieve closure. Specific activities to be performed in the proposed scope of work include:

- ▶ collecting and analyzing soil samples to provide:
 - Subject Site-specific, physical soil parameters for input into the risk assessment;
 - chemical analysis of polynuclear aromatics hydrocarbons (PAHs) for input into the risk assessment; and
 - analysis for total petroleum hydrocarbons (TPH) and volatile organic compounds (VOCs) in areas where analytical data collected during previous investigations do not agree or are not conclusive.

- ▶ collecting and analyzing water samples to provide:
 - verification of groundwater analytical results for PAHs and volatile organic compounds in areas where previous investigation results do not agree or are not conclusive.

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16755 Von Karman Avenue, Irvine, CA 92714 (714) 756-2667 FAX (714) 756-8460

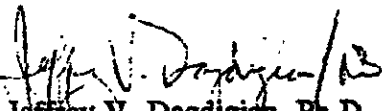
Susan Hugo
May 12, 1997
Page 2

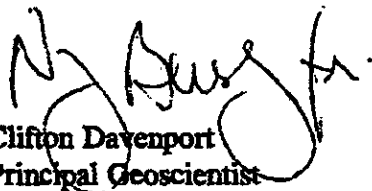
- ▶ evaluating the risk assessment method to be used based on the collected data;
- ▶ preparing the risk assessment using Subject Site-specific data previously collected; and
- ▶ development of site-specific cleanup levels (site specific target levels or SSTLs) with the RWQCB.

We are providing you with a copy of the workplan at this time so that you may review the scope and intent prior to our meeting on May 14, 1997. A copy of this workplan is also being sent to Dr. Ravi Arulanantham for his preview as well.

If you have any questions on this workplan, please contact Nancy Beresky at (714) 752-3221, or Clifton Davenport at (510) 748-5654.

Sincerely,


Jeffrey V. Dagdigan, Ph.D.
Vice President
Managing Principal Environmental Scientist


Clifton Davenport
Principal Geoscientist

cc: Ravi Arulanantham - SFRWQCB
Lyman Lokken - Transamerica Occidental Life Insurance Co.
Frank Aparicio, Esq. - Kelley, Drye & Warren LLP
Jeffrey Dagdigan - McLaren/Hart
David Waite - Jeffer, Mangels, Butler & Marmaro

Prepared by:

**McLaren/Hart
16755 Von Karman
Irvine, California 92606-4918**

May 13, 1997

**DRAFT WORKPLAN FOR SOIL SAMPLING
AND RISK ASSESSMENT AT THE
FORMER STANDARD BRANDS PAINT STORE NO. 147
4343 SAN PABLO AVENUE
EMERYVILLE, CALIFORNIA**

Draft Workplan for Soil Sampling and Risk Assessment

McLaren/Hart Project No. 03.0602368.001.001

**Former Standard Brands Paint
Store No. 147
4343 San Pablo Avenue
Emeryville, California**

May 13, 1997

Prepared by: **McLaren/Hart Environmental Engineering Corporation
16755 Von Karman Avenue
Irvine, California 92606-4918**

**Jeffrey V. Dagdigian, Ph.D.
Vice President
Managing Principal Env. Scientist**

**Clifton Davenport
Principal Geoscientist**

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FIGURES

Figure 1	Former Chemical Use Areas
Figure 2	Enviropro Boring Locations
Figure 3	Enviropro and Environ Locations
Figure 4	Groundwater Sampling Locations
Figure 5	TPH-Affected Areas
Figure 6	Total Petroleum Hydrocarbons as Gasoline Impacted Area
Figure 7	Diesel & Mineral Spirits Impacted Area
Figure 8	Volatile Organic Compounds in Soil
Figure 9	Volatile Organic Compounds in Groundwater

APPENDIX

Appendix A	Soil Sampling Protocols
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1.0 INTRODUCTION AND BACKGROUND

McLaren/Hart has been retained to evaluate environmental issues at the former Standard Brands Paint Store #147, 4343 San Pablo Avenue, Emeryville, California (Subject Site). This workplan was prepared with input from the City of Emeryville Redevelopment Agency. The purpose of the scope of work provided in this workplan is to:

- ▶ collect and analyze soil samples to provide:
 - Subject Site-specific, physical soil parameters for input into the risk assessment;
 - chemical analysis of polynuclear aromatics hydrocarbons (PAHs) for input into the risk assessment; and
 - analysis for total petroleum hydrocarbons (TPH) and volatile organic compounds (VOCs) in areas where analytical data collected during previous investigations do not agree or are not conclusive.
- ▶ collect and analyze water samples to provide:
 - verification of groundwater analytical results for PAHs and volatile organic compounds in areas where previous investigation results do not agree or are not conclusive.
- ▶ evaluate the risk assessment method to be used based on the collected data;
- ▶ prepare the risk assessment using Subject Site-specific data previously collected; and
- ▶ develop Subject Site-specific cleanup levels (site specific target levels or SSTLs) with the Alameda County Department of Environmental Health and the Regional Water Quality Control Board (RWQCB).

This section presents background information regarding the Subject Site. The first portion discusses the local geology and hydrogeology of the Subject Site. The second portion

describes prior use of the Subject Site and includes a description of previous environmental investigations conducted on the Subject Site.

1.1 LOCAL HYDROGEOLOGY

According to a previous Subject Site investigation reported by Environ Corporation in a document entitled "*Subsurface Investigation Report, Standard Brands Property, Emeryville California*" dated December 3, 1993 (Environ report), owners of neighboring sites have conducted investigations and have determined that groundwater is generally encountered 5 to 15 feet below ground surface. According to the United States Geological Survey Topographic Map of the Oakland West Quadrangle (1959, Photorevised 1980) the Subject Site is approximately 40 feet above mean sea level. The nearest surface water is the San Francisco Bay located approximately 1 mile west. Groundwater flow in the area is reported to be towards the Bay, in a westerly to southwesterly direction.

Groundwater beneath the Subject Site may be under semi-confined conditions. The groundwater levels rose in boreholes after it was first encountered during Environ's 1993 investigation. In one borehole, Environ indicated that groundwater was first encountered at a depth of 18.5 feet, but groundwater rose to 11.85 feet below the ground surface within one-half hour. The groundwater flows to the west according to the December 1993 Environ report. This flow direction is consistent with the reported regional flow direction.

Soil boring logs indicate that the lithology consists of silty clays to sandy clays to a depth of approximately 25 feet with as much as 85 percent clay in some samples. A portion of the scope of work proposed in this workplan is to determine the exact depth to water and the depth of the vadose zone beneath the Subject Site.

1.2 PRIOR SUBJECT SITE USE AND PREVIOUS ENVIRONMENTAL INVESTIGATION

The Subject Site was formerly used as a Standard Brands retail paint store, a tire retread and manufacturing company (Oliver Rubber and Tire), and an oil and gas depot. An underground storage tank (UST) exists on the Subject Site associated with past Subject Site use as an oil and gas depot. Former chemical use areas based on historical Subject Site usage are shown on Figure 1. TPH in the diesel and mineral spirits range have been detected in soil underlying the Subject Site. Based on soil and groundwater investigations performed by Enviropro, Inc. in

1994 and Environ in 1995, Enviropro and Environ concluded that these chemicals have originated from past operations performed by Oliver Rubber and Tire.

Enviropro, Inc. performed soil and groundwater sampling in June 1994; these soil sampling location names begin with the letter "G" and are shown on Figure 2. Environ performed additional soil and groundwater sampling in June 1995. Enviropro and Environ sampling locations are also shown on Figure 3. Environ sample locations begin with the letter "B" or "CPT". Figure 3 also shows sampling locations on surrounding properties. Groundwater sampling locations on the Subject Site and surrounding properties are shown on Figure 4.

Based on the results of these two investigations, six areas affected by TPH have been identified. These are shown as Areas A, B1, B2, C, D, E, and F on Figure 5.

The cross section line A-A' provides a comparison of data results for TPH as gasoline between the Enviropro and Environ investigations. The cross section trace is shown on Figure 5. Figure 6 illustrates the area impacted by TPH as gasoline, while TPH as diesel/mineral spirits is shown on Cross on Figure 7. Based on the data provided, it appears that vadose zone soils up to 8 feet in depth have been impacted by TPH as gasoline and/or diesel and mineral spirits.

Soil sampling results for volatile organic compounds (VOCs) are shown on Figure 8. Review of the data indicates that impact to Subject Site soils by VOCs is limited to scattered detectable concentrations of chlorinated VOCs up to 79 parts per billion (ppb).

Figure 9 provides groundwater sampling results for VOCs. Methylene chloride is the VOC detected most frequently above maximum contaminant levels (MCLs).

2.0 SCOPE OF WORK

To achieve the project objectives, McLaren/Hart proposes the following scope of work:

- Task 1.0 Agency Meetings and Negotiation
- Task 2.0 Prefield Activities
- Task 3.0 Soil Sampling
- Task 4.0 Risk Assessment
- Task 5.0 Report Preparation

2.1 TASK 1.0 AGENCY MEETINGS AND NEGOTIATION

The Alameda County Health Care Services Agency (ACHCSA) is expected to be the lead oversight agency. Since the project may likely utilize risk assessment, the State of California Regional Water Quality Control Board (RWQCB) involvement is also anticipated. Two episodes of agency meetings and negotiation with the ACHCSA and RWQCB are proposed to streamline the agency review process. Agency meetings or negotiations would occur:

- ▶ after completion draft soil sampling and risk assessment workplans; and
- ▶ after completion of Task 5.0 for the soil sampling and risk assessment report.

The first meeting will provide the ACHCSA and RWQCB with an opportunity to comment on the planned soil sampling locations, analysis, and depths. Other goals for this meeting are to discuss the potential applicability of low-risk status (SWRCB Draft Resolution 01-21-97) for the Subject Site; as well as proposed methodology for RWQCB concurrence on the risk assessment to be conducted if necessary.

The second meeting will be held after soil sampling and risk assessment activities have been completed and the draft report prepared. During this meeting, proposed cleanup levels will be reviewed and concurrence and/or comments will be obtained from the oversight agencies.

2.2 TASK 2.0 PREFIELD ACTIVITIES

After the scope of work for sampling and risk assessment has been agreed upon and prior to initiating field work, McLaren/Hart will perform the following activities:

- ▶ Hold an internal job start-up meeting;
- ▶ Identify proposed sampling locations in the field;
- ▶ Perform a utility clearance in proposed boring locations;
- ▶ Update the Site Health and Safety Plan for the Subject Site;
- ▶ Schedule subcontractors and prepare subcontracts; and
- ▶ Prepare and calibrate field equipment.

2.3 TASK 3.0 SOIL AND GROUNDWATER SAMPLE COLLECTION

As previously mentioned, six areas of the Subject Site (noted on Figure 5 as Areas A, B1, B2, C, D, and E) have been affected by TPH as either gasoline or diesel/mineral spirits. To determine current chemical concentrations in soil and to obtain chemical data in areas where analytical results from the Environ and Enviropro investigations do not agree, borings are proposed adjacent to previously-drilled "paired" or single borings completed during previous investigations located within the six designated TPH-affected areas. The "pairs" consist of a boring drilled by Enviropro in 1994 and a subsequent, adjacent boring drilled by Environ in 1995. Additionally, several samples will be selected for volatile organic compound (VOC) analysis to determine the current concentrations of VOCs in the soil on the Subject Site.

2.3.1 Soil Sample Collection

Soil boring locations will first be cleaned by a utility clearance technician. Asphalt or concrete paving will be removed by coring at each of the eight proposed sample locations. Each location will be hand augered to 5 feet. Samples will be collected using a hand auger or drive sampler (for samples shallower than 5 feet in depth) and Geoprobe (for deeper samples). While use of the Geoprobe creates a minimum of soil cuttings, it is expected that up to one 55-gallon drum of cuttings and one 55-gallon drum of decontamination rinsate water will be generated during sampling. The appropriate disposal method for this material can be evaluated after receipt of final laboratory data. The client will be notified when appropriate disposal

options have been determined. Protocols for soil sampling methods are included in Appendix A.

Five borings will be drilled adjacent (within 5 feet) of the following "paired" locations as shown on Figure 5:

- ▶ B-4/G5 (TPH-affected Area B1)
- ▶ B-5/G9 (TPH-affected Area B2)
- ▶ B-6/G25 (TPH-affected Area B2)
- ▶ B-7/G26 (TPH-affected Area B2)
- ▶ B-10/G8 (TPH-affected Area D)

Three borings will be drilled adjacent to previous single locations (as shown on Figure 5) where higher concentrations of total petroleum hydrocarbons (TPH) as mineral spirits/diesel were detected:

- ▶ G22 (TPH-affected Area A)
- ▶ G24 (TPH-affected Area C)
- ▶ G16 (TPH-affected Area E)

Soil samples will be collected for chemical analysis at 5, 10, 15, and 20 feet or immediately above first groundwater (whichever comes first). Samples will not be collected in saturated soils for analysis of chemical parameters. All collected soil samples will be analyzed for the following:

- ▶ total petroleum hydrocarbons (TPH) full range including mineral spirits by EPA Method 8015M;
- ▶ PAHs by EPA Method 8270; and
- ▶ to provide additional data to verify sampling results from prior investigations and for the risk assessment, one sample from each boring (8 total; selected based on highest field VOC readings) will also be analyzed for VOCs by EPA Method 8240.

2.3.2 Groundwater Sample Collection

Groundwater samples will be collected from 6 of the 8 borings where soil samples are to be collected. A water sample will be collected at the boring placed adjacent to the following locations:

- ▶ B10/G8
- ▶ B7/G26
- ▶ B5/G9
- ▶ G22
- ▶ G24
- ▶ G16

029

Each water sample will be analyzed for VOCs by EPA Method 8240 which includes chlorinated and aromatic VOCs.

2.3.3 Analysis of Physical Soil Parameters for Input into the Risk Assessment

029

For this project, sampling is also designed to provide Subject Site-specific parameters for input into the risk assessment, prepared to establish clean up levels for the Subject Site.

Establishing cleanup parameters using risk-based technology requires an understanding of chemical migration in soil and groundwater as well as potential exposure routes. The use of Subject Site-specific parameters will provide a more realistic estimate of potential exposure; default modeling parameters are normally very conservative and result in lower cleanup levels than are generally necessary to protect human health and the environment.

For purposes of analyzing specific physical parameters in the vadose zone for input into the risk assessment, distinct lithologic zones have been identified from previous sampling. Because it has been several years since sampling has been performed on the Subject Site and confined or semi-confined groundwater conditions exist beneath the Subject Site, the current depth to water is uncertain. Risk assessment calculations are planned only for vadose zone soils, therefore, soil sampling will not be performed in the saturated zone. Following is a list of the appropriate depths for sampling of each lithologic zone previously identified on the Subject Site:

- ▶ Fill material at 2 feet in depth,
- ▶ Silty clay at 7 feet in depth,
- ▶ Silt from 10-12 feet and 14-20 feet in depth (depending on area of Subject Site),
- ▶ Clay aquitard encountered at 22-32 feet in depth (depending on area of Subject Site).

One boring (B6/G25) will be drilled and sampled continuously to groundwater depth to verify the above lithology prior to sample collection for physical soil parameters. At the bottom of this boring, to facilitate groundwater transport and retardation calculations, one sample will be collected in the saturated zone and analyzed for the following:

- ▶ hydraulic conductivity;
- ▶ organic carbon content;
- ▶ bulk density; and
- ▶ porosity.

Depending on depth to water, samples will be collected in the vadose zone at two locations (B-4/G5 and B-10/G8) from the fill material, silty clay, and silt lithologies (maximum of six samples). Samples will be collected at B7/G26 from all of the previously mentioned lithologies (maximum of 4 samples) including the clay aquitard (if the aquitard is a portion of the vadose zone). A maximum of ten samples will be analyzed for the following risk assessment parameters:

- ▶ Organic carbon content,
- ▶ Bulk density,
- ▶ Total porosity, and
- ▶ Total moisture content.

Samples will be collected according to the protocols included as Attachment A. Sample analysis will be performed on a standard two week turnaround time basis.

2.4 TASK 4.0 RISK ASSESSMENT PREPARATION

The method proposed for risk assessment preparation is based on the conceptual approach outlined in the American Society for Testing and Materials (ASTM) standard *Risk-Based*

Corrective Action for Petroleum Release Sites (RBCA). The major objectives of the RBCA process are:

- ▶ to establish the actual and potential risks to human and ecological health and the environmental (groundwater) quality posed by a release and the urgency of the threat;
- ▶ to select remedial response(s) that address these risks within an appropriate time frame.

The scope of the proposed risk assessment is described below:

- ▶ **Characterize, Assess, and Categorize Site:** The initial Subject Site characterization described in the background section of this workplan will be updated with the additional information obtained from the sampling results described in Task 3.0. This updated assessment will be included in the workplan to be submitted to the regulatory agency.
- ▶ **Select Chemicals of Interest (COIs):** Following the additional Subject Site investigation, the results will be reviewed to identify the chemicals for which Site Specific Target Levels (SSTLs) will be developed. If high levels of TPH are found and benzene, toluene, ethylbenzene, and total xylenes (BTEX) or PAHs are found in substantial concentrations, McLaren/Hart may select surrogate compounds to represent the TPH (this is similar to the Massachusetts Department of Environmental Protection method and the TPH Working Group approach; and provides a framework within which to evaluate TPH impact). The selection of the surrogate compound(s) will be based on information on the composition of the TPH described by the laboratory. The selection process will also consider the availability of data on the physical, chemical, and biological properties of the potential surrogate chemicals. For each COI, appropriate toxicity criteria will be identified. These criteria include Maximum Contaminant Levels (MCLs) for drinking water, USEPA noncarcinogenic reference doses (RfDs), and USEPA and/or California cancer slope factors (CSFs).
- ▶ **Identify Receptors and Exposure Pathways:** A review of the Subject Site conditions, land uses, and groundwater uses in the Subject Site vicinity will be performed to identify potential receptors and points of compliance that are reasonable but are not

directly on the Subject Site. For each receptor, the potentially complete exposure pathways (both direct and indirect) will be identified.

- ▶ **Calculate SSTLs:** SSTLs will be developed using the exposure, fate, and transport modeling algorithms in the RBCA standard. Subject Site-specific characteristics will be used in place of default data. SSTLs will be developed for two conditions: a reasonable maximum exposure (RME) case and an average or typical case. The RME is based on high end estimates of parameters (such as exposure durations for industrial workers of 25 years), while average case parameters are based on middle or representative values. McLaren/Hart will consider exposures to both residential and industrial/commercial receptors. Selection of the appropriate receptor(s) for any reports to agencies will be based on the Subject Site conditions and potential future land uses. The calculation of SSTLs also involves establishing maximum acceptable risk levels (i.e. cancer risks between 1×10^{-6} and 1×10^{-4}), this level will be selected based on discussions with the agencies, as appropriate.
- ▶ **Report:** The analysis and approaches used to develop the SSTLs will be incorporated into the report submitted to the agency as described in Task 5.0. The risk assessment portion of the report will provide tables of input parameter values and results which will allow a reviewer to confirm that the SSTLs were appropriately calculated.

The SSTLs will be used to determine whether additional action is necessary for the Subject Site. Assuming residual concentration are below the relevant SSTL, further actions (i.e., remediation) would not be warranted.

2.5 TASK 5.0 REPORT PREPARATION

A report will be prepared following receipt of the final analytical laboratory data report and performance of the risk assessment for to the RWQCB. After submittal of the report, a meeting will be scheduled with the RWQCB to discuss the proposed cleanup levels.

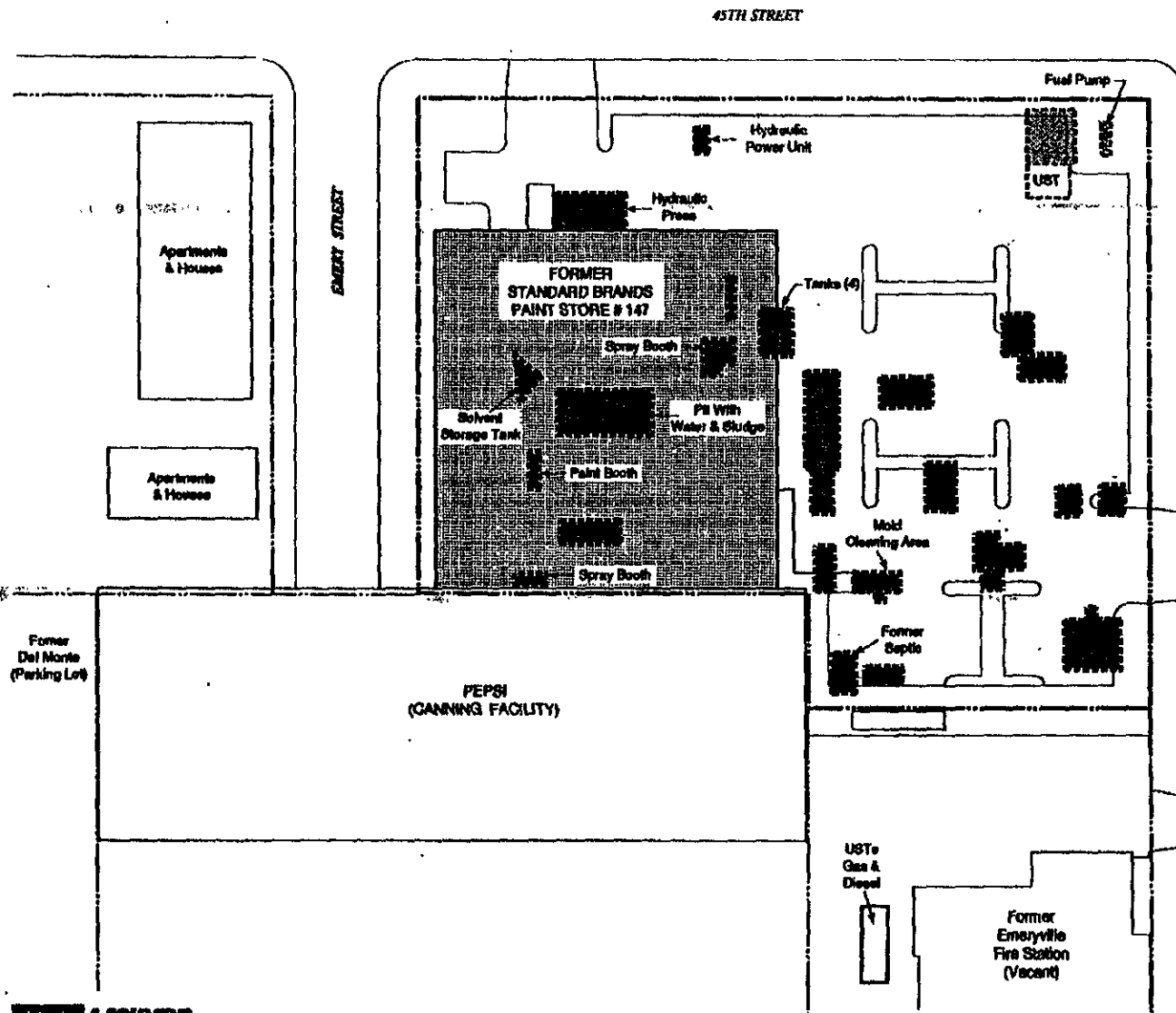
The report will include a Subject Site location map, a Subject Site plot plan showing the sample locations, a description of sampling protocols, a summary of the analytical data including results from the previous investigation, and the final laboratory analytical data sheets.

3.0 SCHEDULE

Agency comments can be addressed within two to four weeks. Preparation for field work and sampling can be completed within two weeks. Laboratory turnaround time is standard at two weeks. Risk assessment activities can take place after receipt of final sampling results and applicability of low risk status is known. Finalization of the risk assessment will take approximately four weeks following the receipt of final lab results. The entire project as proposed (including one month of agency review time for the workplan) is anticipated to take four months.

Figures

**FIGURE 1
FORMER CHEMICAL USE AREAS
OLIVER TIRE & RUBBER CO. /
OIL & GAS DEPOT**



SAN PABLO AVENUE

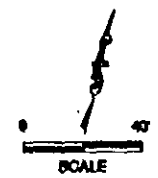
LEGEND

- Property Boundary
- Neighboring Property Boundaries
- [Symbol] Underground Storage Tanks
- [Symbol] Former Bump (Approximate Location) (From Deaso Plan)
- [Symbol] Former Chemical Use Area (From 1971 Plan)
- [Symbol] Former Standard Brands Paint Store
- [Symbol] Former Oil & Gas Depot Location
- [Symbol] Neighboring Properties

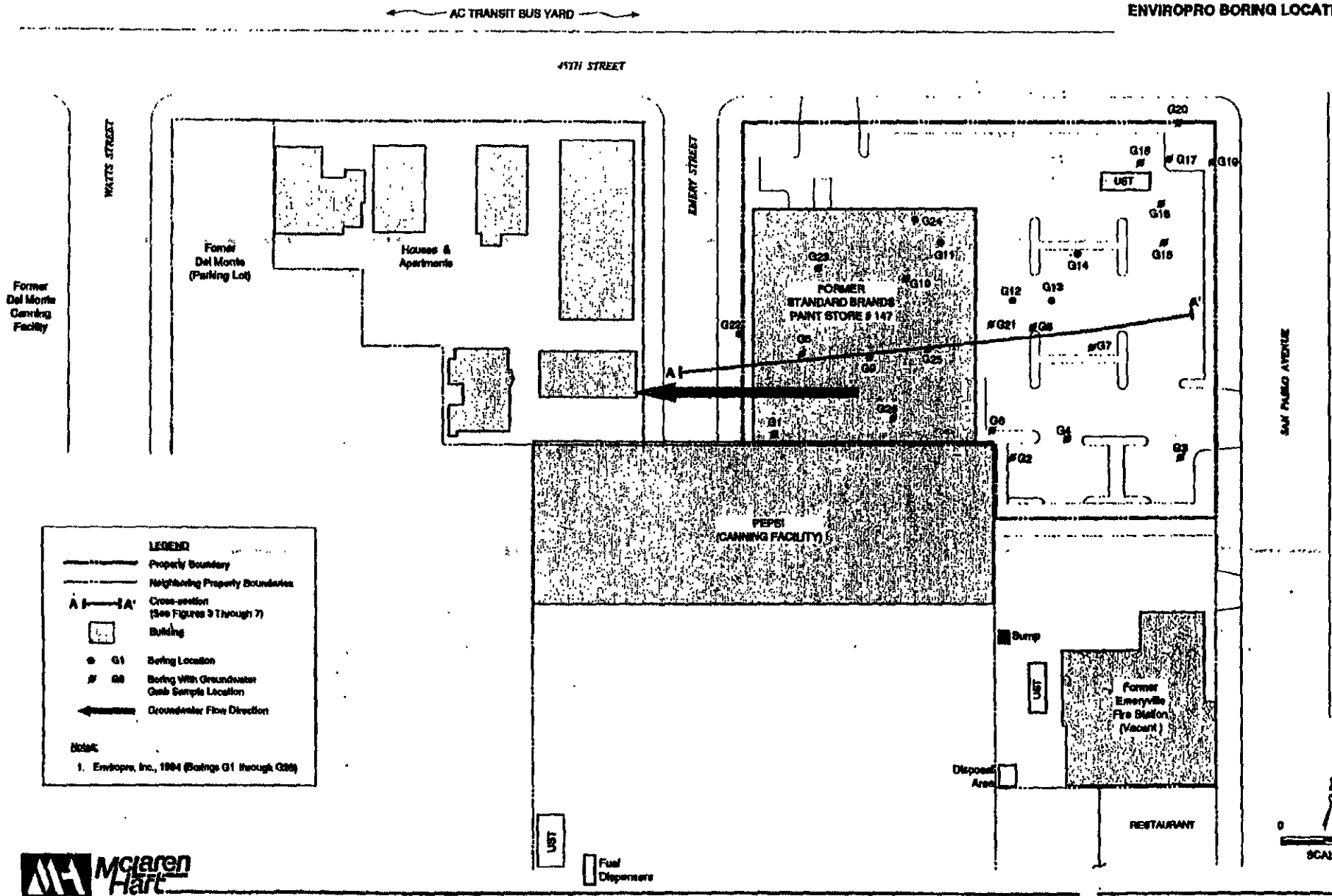
Note:
This Map Shows Enviro's Interpretation
Of Former Oliver Tire and Rubber's
Chemical Use Areas (Based On A 1971
Plot Plan On File At The Emeryville
Building Department).

Source: Taken from Enviro's report dated Aug. 18, 1994.

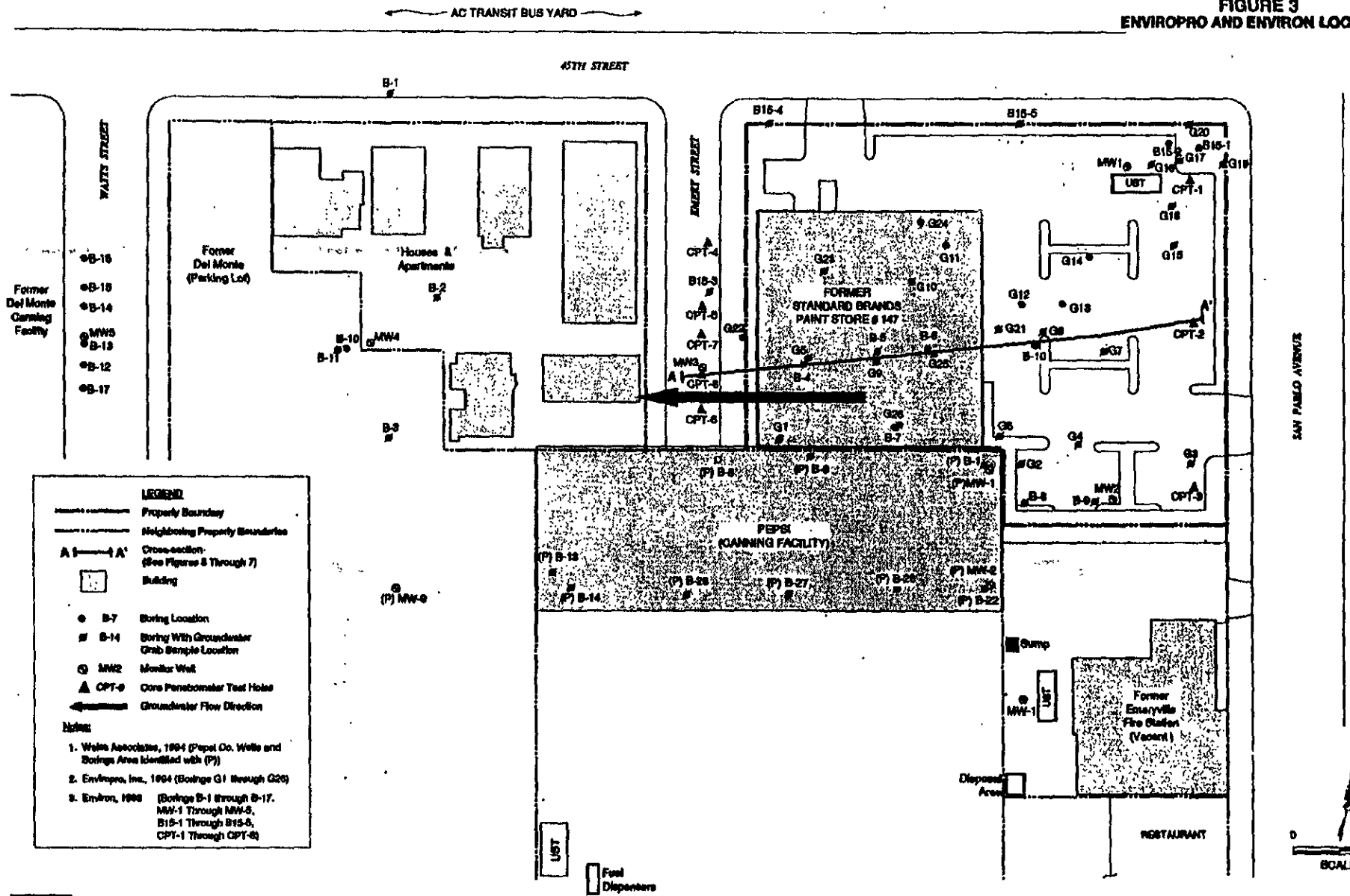
1. City of Emeryville Building Department File Map of former Oliver Tire and Rubber Co., 7229/71.
2. Charles A. Campanella, Inc. Building Demolition Note Demolition of Oliver Tire Bldg., Approximately 1988 (locations are approximate).
3. Pacific Aerial Surveys Photo Number AV-89-12-06, 08/18/88.
4. 1930 Sanborn Map.



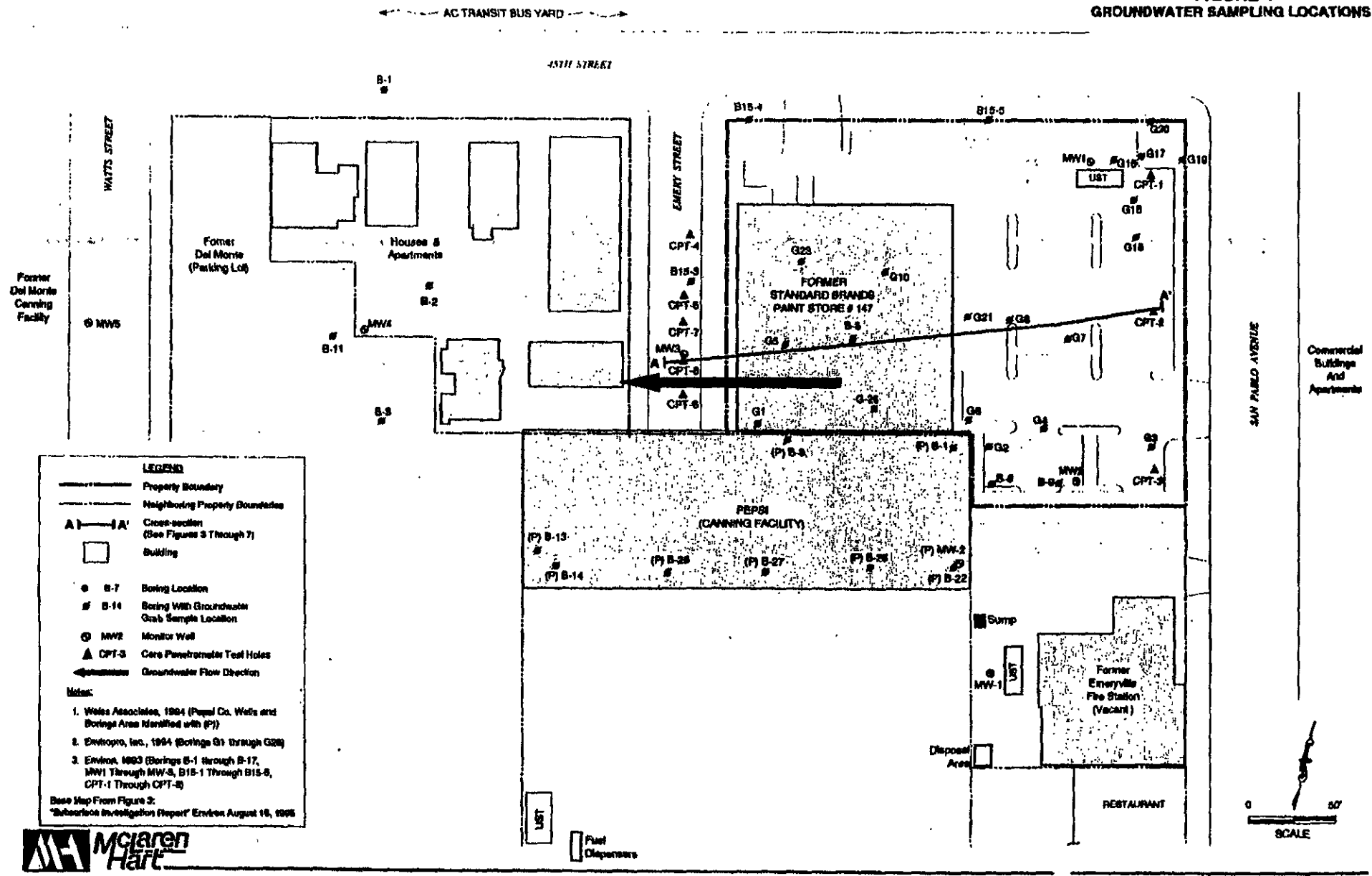
**FIGURE 2
ENVIROPRO BORING LOCATIONS**



**FIGURE 3
ENVIROPRO AND ENVIRON LOCATIONS**



**FIGURE 4
GROUNDWATER SAMPLING LOCATIONS**



LEGEND

- Property Boundary
- - - - - Neighboring Property Boundaries
- A — A' Cross-section (See Figures 3 Through 7)
- Building
- B-7 Boring Location
- # B-14 Boring With Groundwater Grab Sample Location
- ⊙ MW2 Monitor Well
- ▲ CPT-3 Core Penetrometer Test Holes
- ← Groundwater Flow Direction

Notes:

1. Welis Associates, 1984 (Pepsi Co. Wells and Borings Area Identified with (P))
2. Enviropro, Inc., 1984 (Borings G1 through G28)
3. Envirocon, 1983 (Borings B-1 through B-17, MW1 Through MW-8, B15-1 Through B15-8, CPT-1 Through CPT-8)

Base Map From Figure 3:
"Subsurface Investigation Report" Envirocon August 16, 1985



**FIGURE 5
TPH-AFFECTED AREAS**

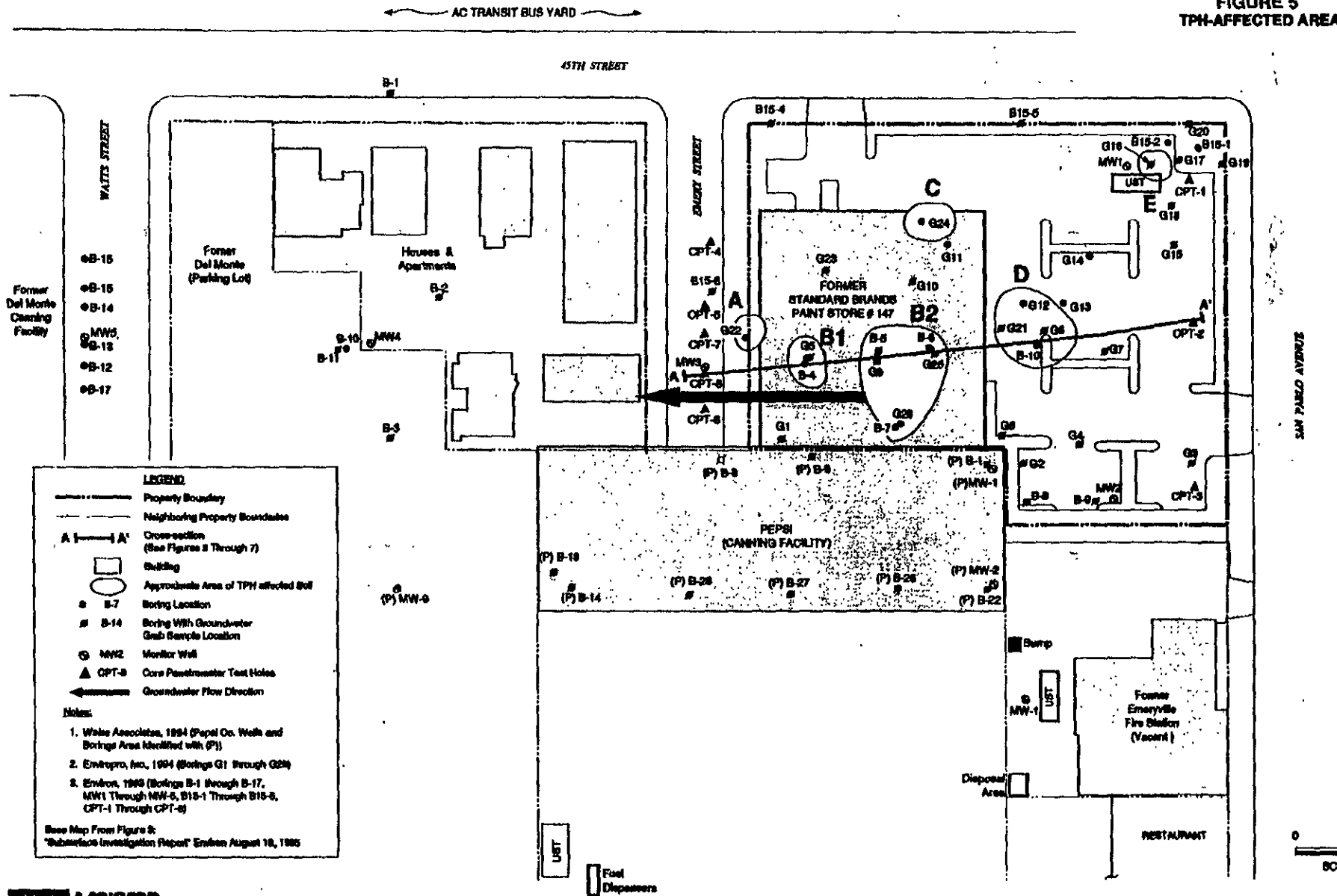
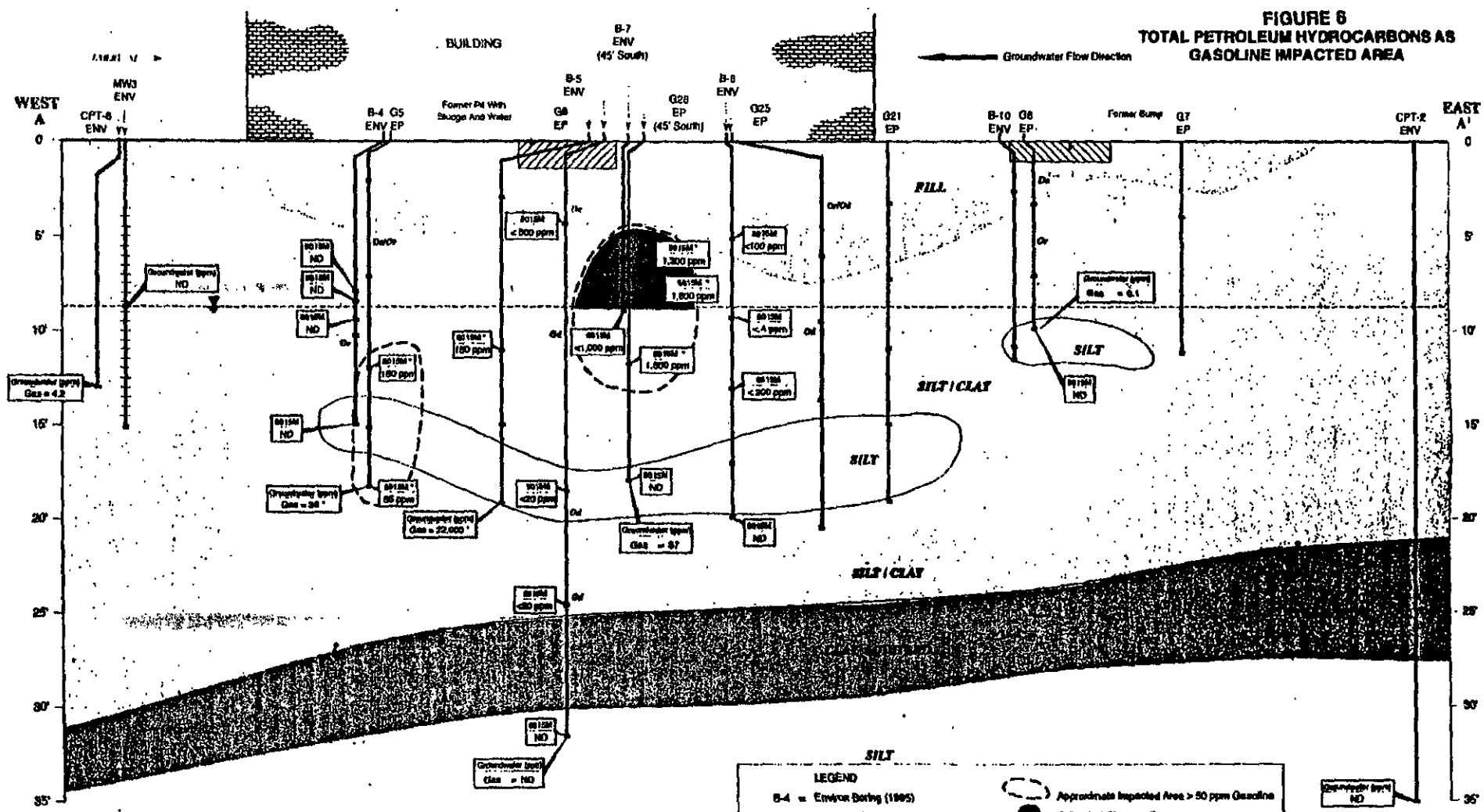


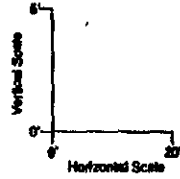
FIGURE 6
TOTAL PETROLEUM HYDROCARBONS AS
GASOLINE IMPACTED AREA



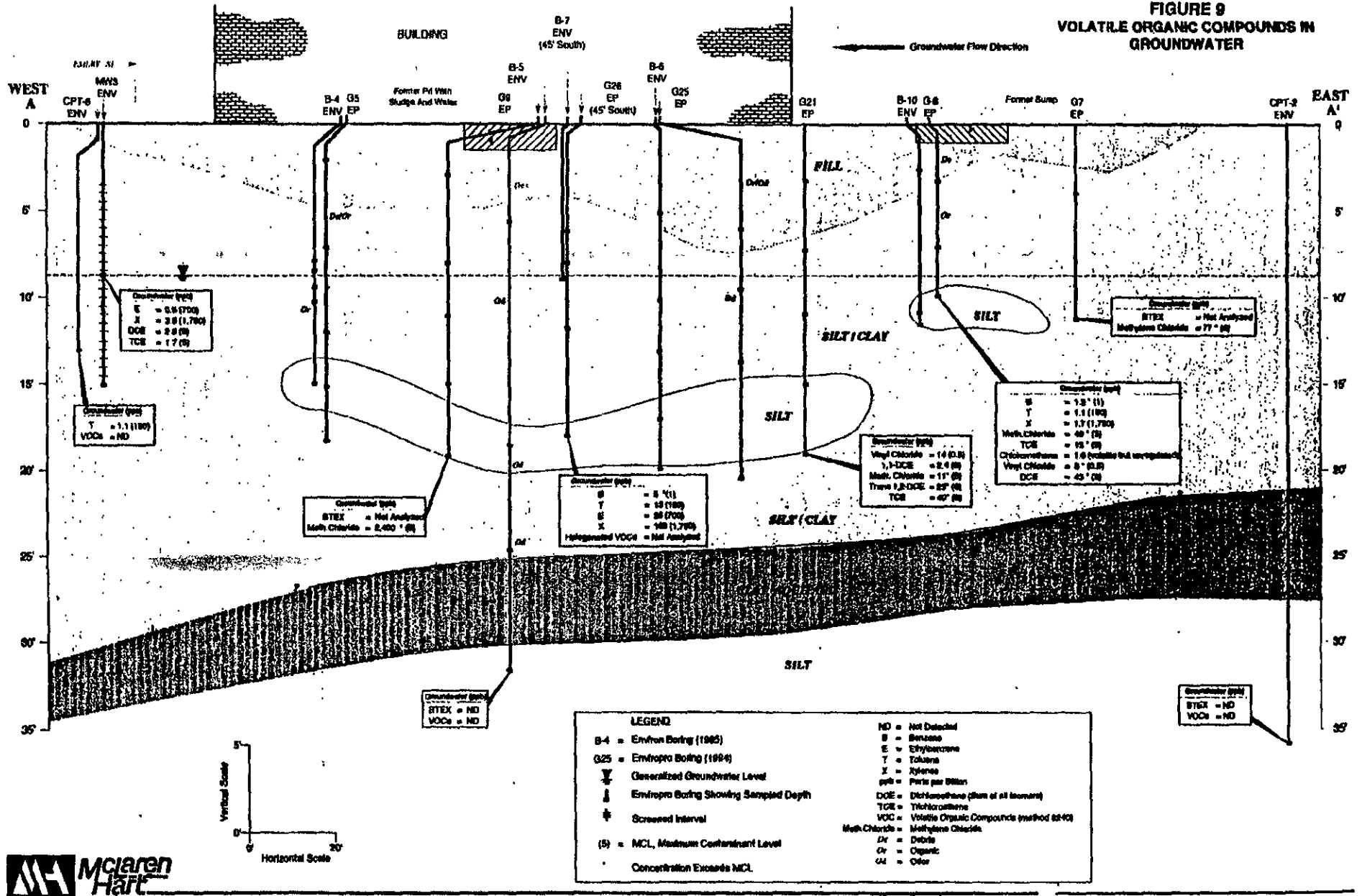
LEGEND

B-4 = Enviro Boring (1995)	○ = Approximate Impacted Area > 50 ppm Gasoline
G25 = Enviro Boring (1994)	■ = Estimated Clean-up Zone
▽ = Generalized Groundwater Level	MS = Mineral Spirits
↓ = Boring Showing Sample Depth	D = Diesel
⊕ = Screened Interval	Dx = Debris
	Or = Organic
	Od = Odor
	ppm = Parts per Million
	ppb = Parts per Billion

[Box with 8015M and 15 ppm] Total Petroleum Hydrocarbons by EPA Method 8015M
 * Characterized As Gasoline By Enviropro But Not Confirmed By Enviro



**FIGURE 9
VOLATILE ORGANIC COMPOUNDS IN
GROUNDWATER**



Appendix A

Soil Sampling Protocols

**McLAREN/HART STANDARD PROTOCOL
FOR
COLLECTION OF SOIL SAMPLES
USING A HAND AUGER**

A 5-foot-long stainless steel hand auger, fitted with 5-foot long conduit extension(s) as needed, is used to drill an approximately 2- 1/4 inch-diameter boring to the proposed depth. Soil samples are collected at the proposed depths. Prior to and between the sampling intervals, all reusable equipment is washed in a trisodium phosphate, rinsed in tap water, and then rinsed in deionized water.

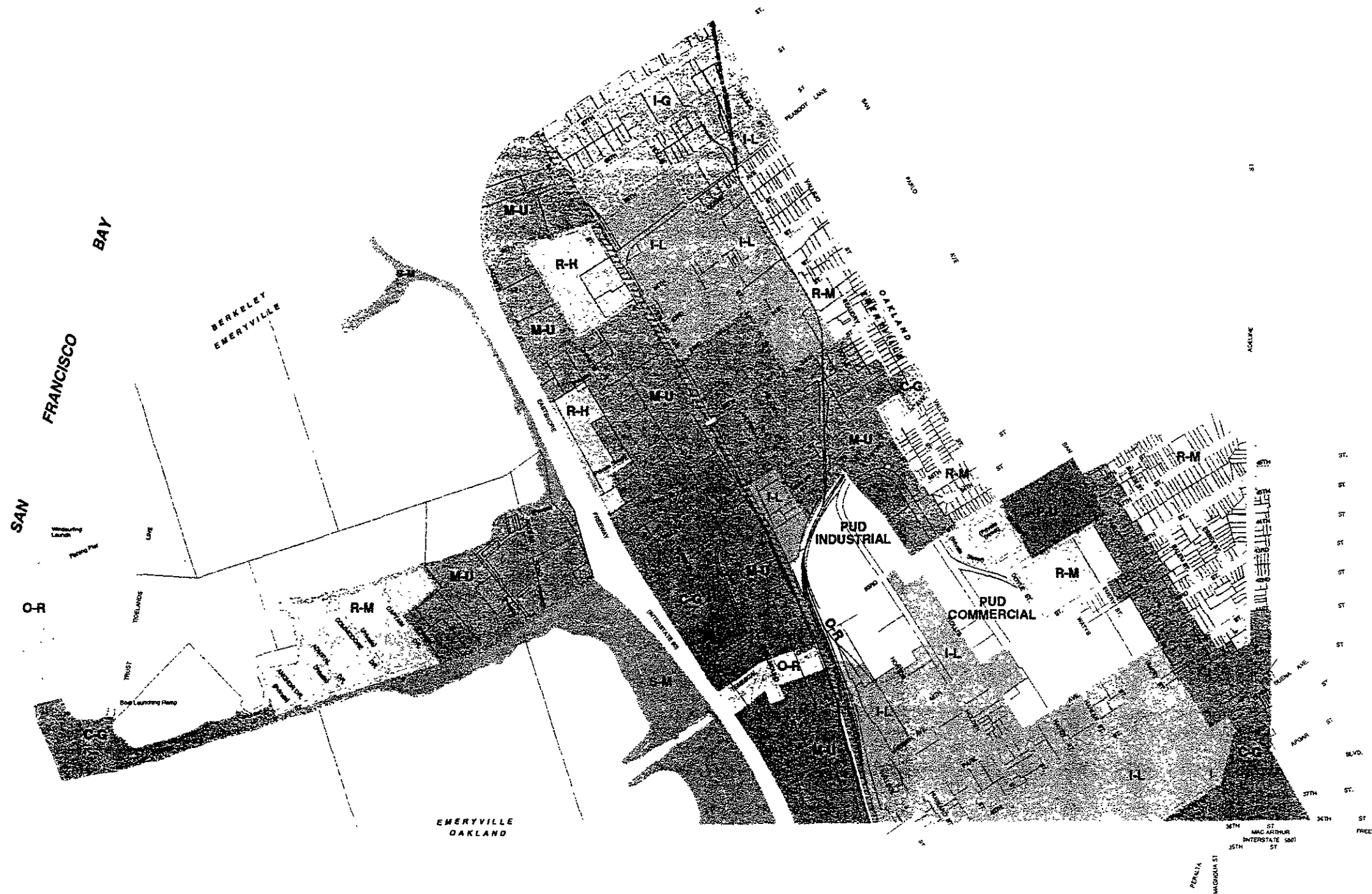
Each soil sample is collected by hand driving a solid or split-spoon sampler lined with a 6-inch brass tube into the undisturbed soil at each sampling depth. The sample tubes are removed from the sampler, excess soil is trimmed with a decontaminated spatula, and each end of the sample tube is covered with Teflon strips and plastic end caps. The plastic end caps are taped in place and the sample label is placed on the container. Clear tape is used to protect the sample label. Sample is placed in double zip lock bag and stored on ice for shipment to the laboratory under standard chain-of-custody.

APPENDIX B

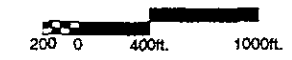
HISTORICAL CHEMICAL AND LAND USE REFERENCE MAPS

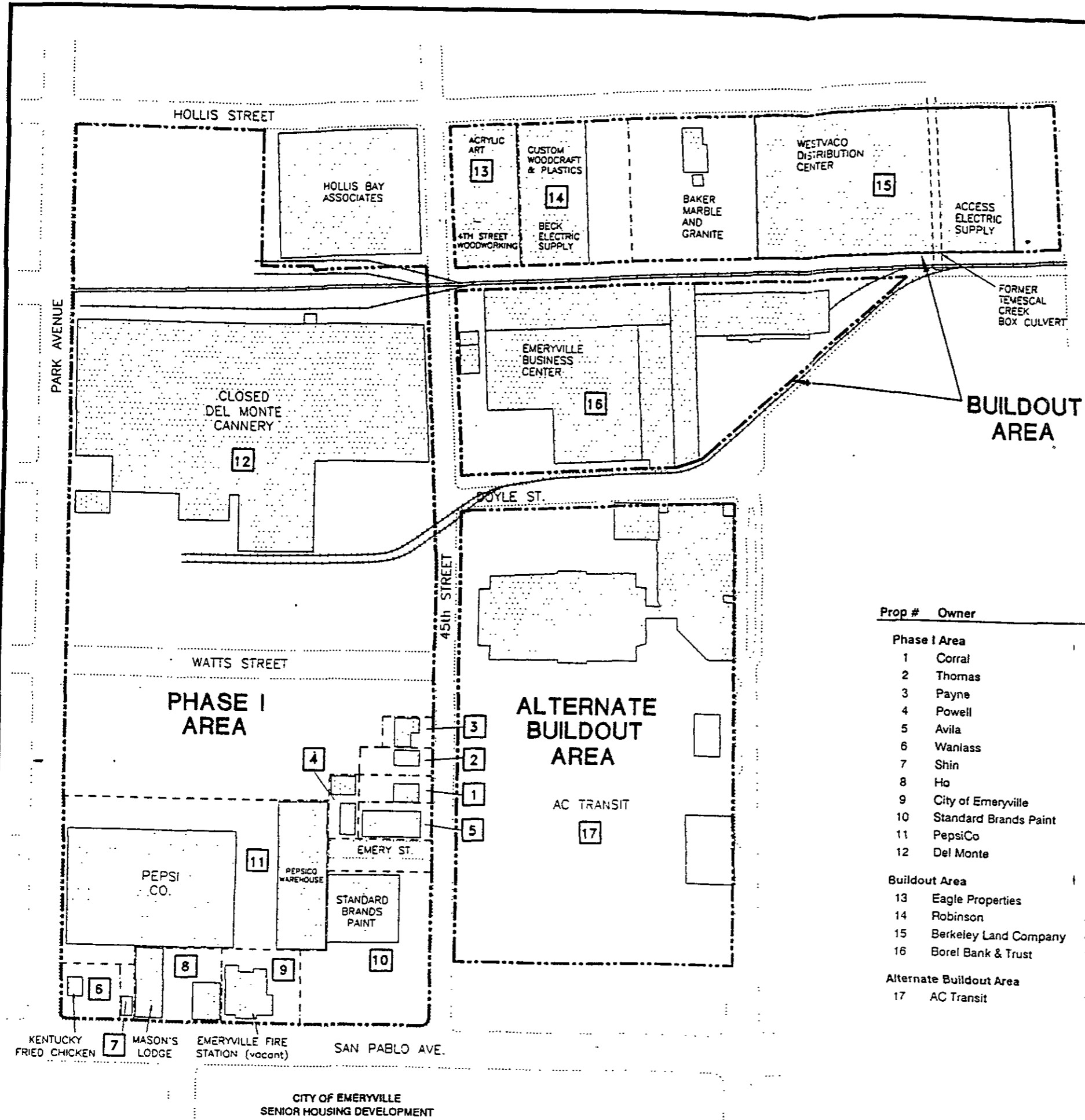
City of Emeryville

Zoning Districts



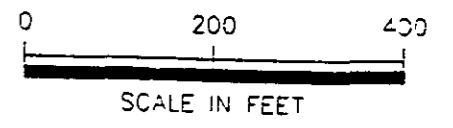
- PUD** Public Utilities District
- R-M** Medium Density Residential
- R-H** High Density Residential
- C-G** General Commercial
- I-L** Light Industrial
- I-G** General Industrial District
- M-U** Mixed Use
- O-R** Outdoor Recreation
- S-M** Shoreline Management
- P-U** Public Utilities





- EXPLANATION**
- Site Boundaries
 - - - Property Boundary
 - 9 Property Number
 - Building

INSERT 4



Prop #	Owner	Address(es)
Phase I Area		
1	Corral	1153 45th St
2	Thomas	1155 45th St
3	Payne	1157 45th St
4	Powell	4475 Emery St
5	Avila	4489-4499 Emery St
6	Wanlass	4301 San Pablo Ave
7	Shin	4303 San Pablo Ave
8	Ho	4309, 4321 San Pablo Ave
9	City of Emeryville	4331 San Pablo Ave
10	Standard Brands Paint	4343 San Pablo Ave
11	PepsiCo	1150 Park Ave
12	Del Monte	1250 Park Ave
Buildout Area		
13	Eagle Properties	1266, 1270, 1280, 1290 45th St
14	Robinson	4512, 4514 Hollis St
15	Berkeley Land Company	4550, 5000 Hollis St; 1313 53rd St
16	Borel Bank & Trust	1250 45th St
Alternate Buildout Area		
17	AC Transit	1177 47th St

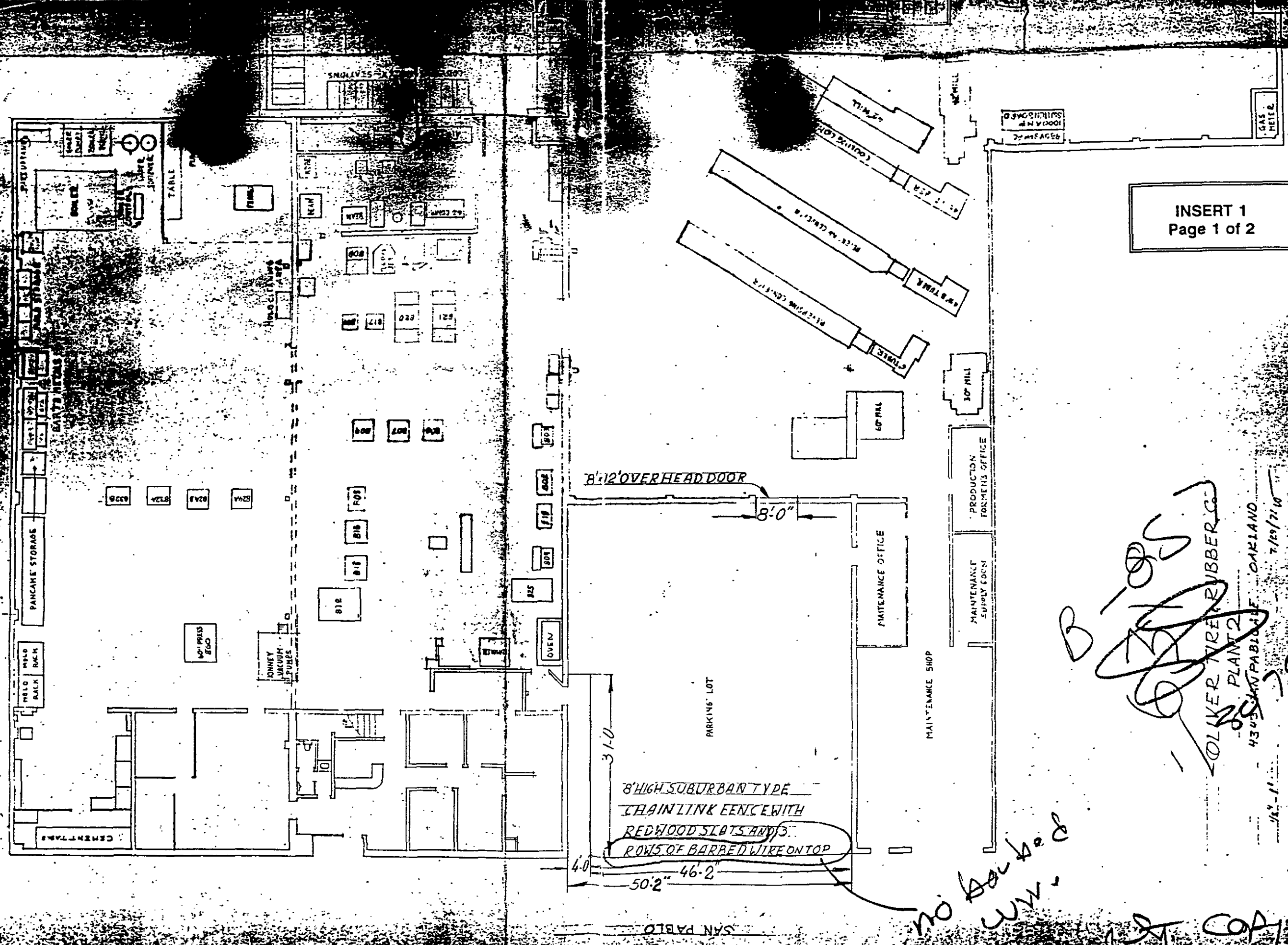
Sources:
1990, 1992 Aerial Photographs for base map
Preliminary Title Reports

ENVIRON
Counsel in Health and Environmental Science
 5820 Shellmound Street, Suite 700, Emeryville, California 94608

Site Plan and Property Boundaries
 Kaiser/Emeryville Site
 Emeryville, California

DATE 1/10/94	CONTRACT NUMBER 03-3118C	FIGURE 2
DRAFTER RS	APPROVED	REVIEWED

0 1033118C/NEWS/RS



INSERT 1
Page 1 of 2

Oliver Tire Rubber Co
PLANT 2
430 SAN PABLO AVE OAKLAND 7/29/76

no barbed wire

COA

45 ST

7/29/76

8' HIGH SUBURBAN TYPE
 CHAIN LINK FENCE WITH
 REDWOOD SLATS AND 3
 ROWS OF BARBED WIRE ON TOP

50'2" 46'2"

31'-0"

8'-12' OVERHEAD DOOR

8'-0"

MAINTENANCE OFFICE

MAINTENANCE SHOP

MAINTENANCE SUPPLY ROOM

PRODUCTION FORMERS OFFICE

30' MILL

60' MILL

STAIRS

40' TABLE

BLEACHING CONCRETE

BLEACHING CONCRETE

40' TABLE

30' MILL

40' TABLE

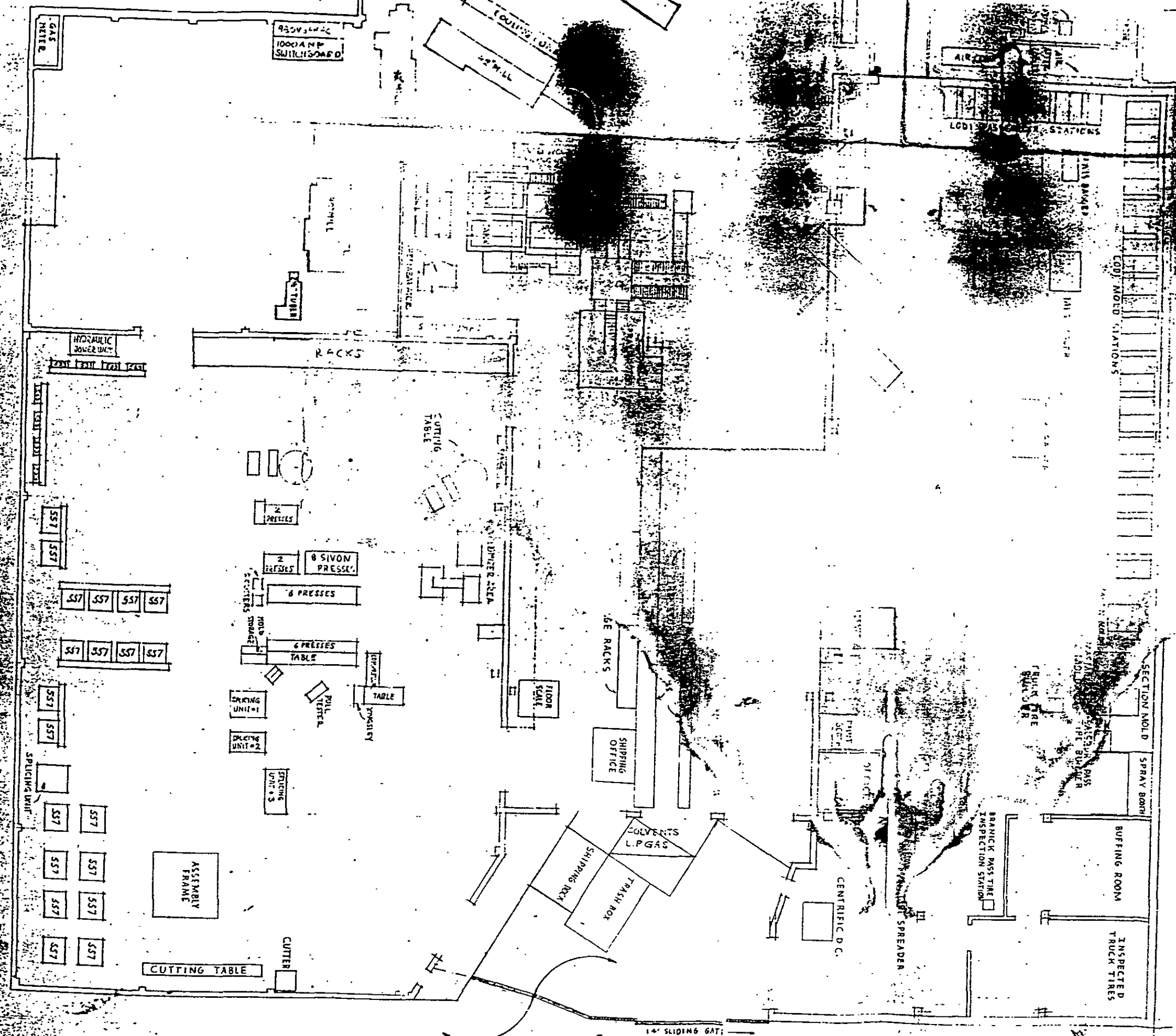
BLEACHING CONCRETE

BLEACHING CONCRETE

40' TABLE

GAS METER

100' WIDE SPLIT 2' WIDE FACE



INSERT 1
Page 2 of 2

INSERT 7
Page 1 of 2

STANBORN
ENGINEERING & GEODISY
INFORMATION SERVICE

THIS MAP IS A CERTIFIED COPY
PRODUCED BY THE DRAWING FROM ITS ARCHIVES.
THIS MAP IS DERIVED FROM
SANITARY FIELD SURVEYS CONDUCTED IN:

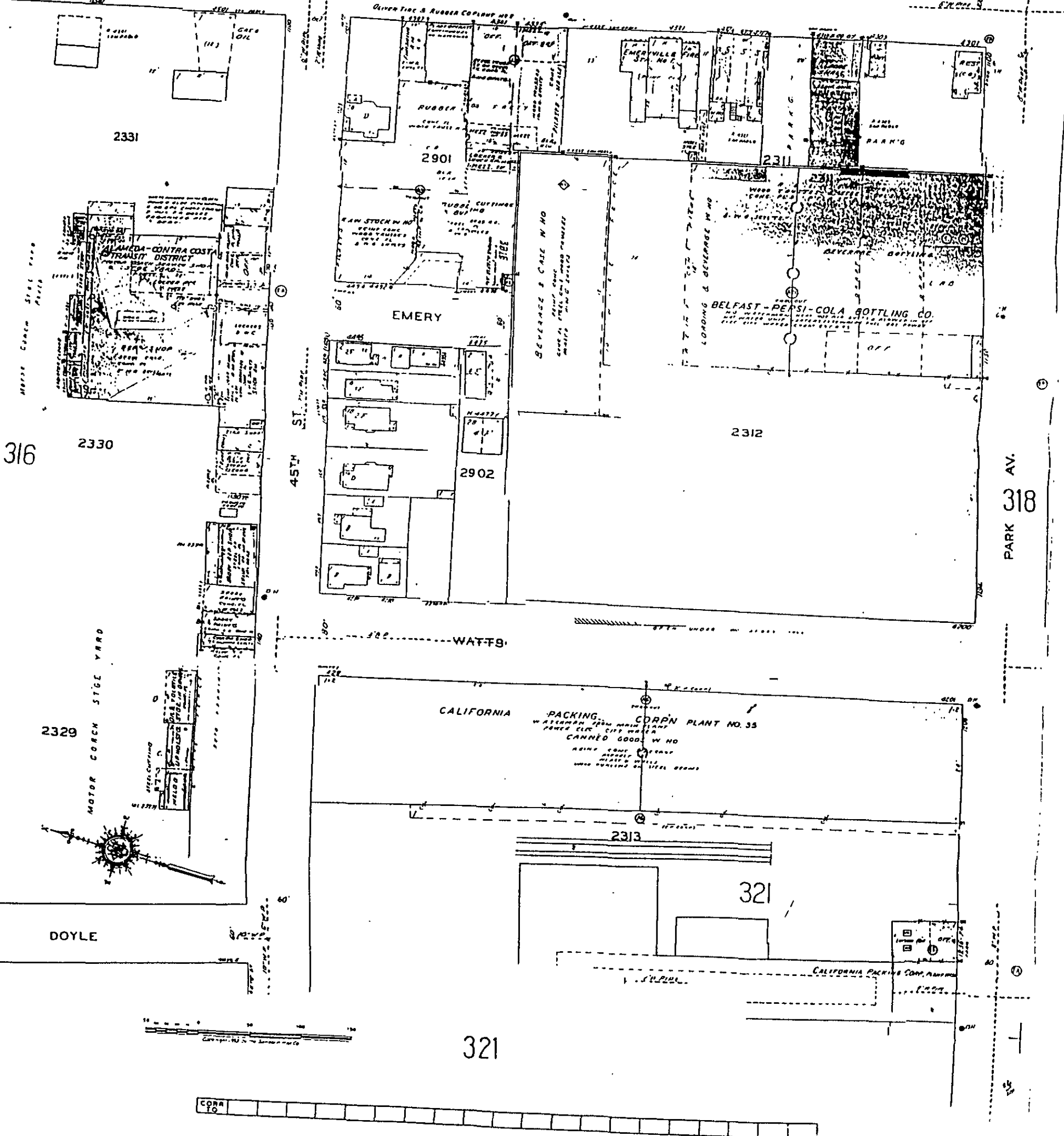
1967

317
EMERYVILLE

THIS SHEET
NOT REVISED SINCE 11/67

351

SAN PABLO AV.



INSERT 7
Page 2 of 2

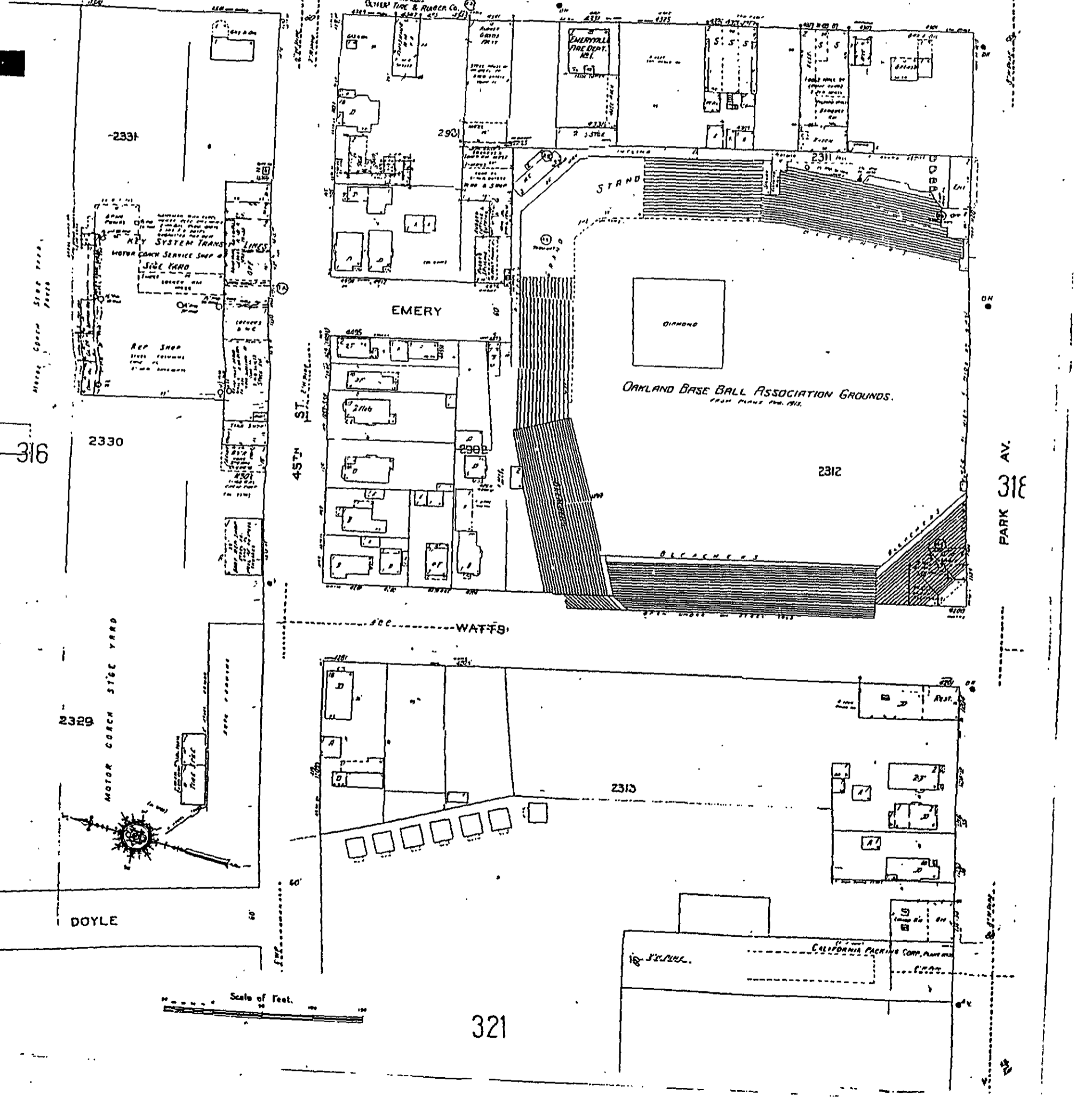
PRODUCED BY [unclear] FROM ITS ARCHIVES.
BASED UPON THE 1945 MAP IS DERIVED FROM
SANITARY FIELD SURVEYS CONDUCTED IN
1951

317
EMERYVILLE

329

DAL...069

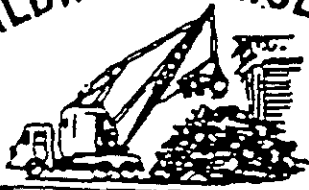
SAN PABLO AV.



INSERT 2

CHAS. S. CAMPANELLA, INC.

BUILDING DEMOLITION

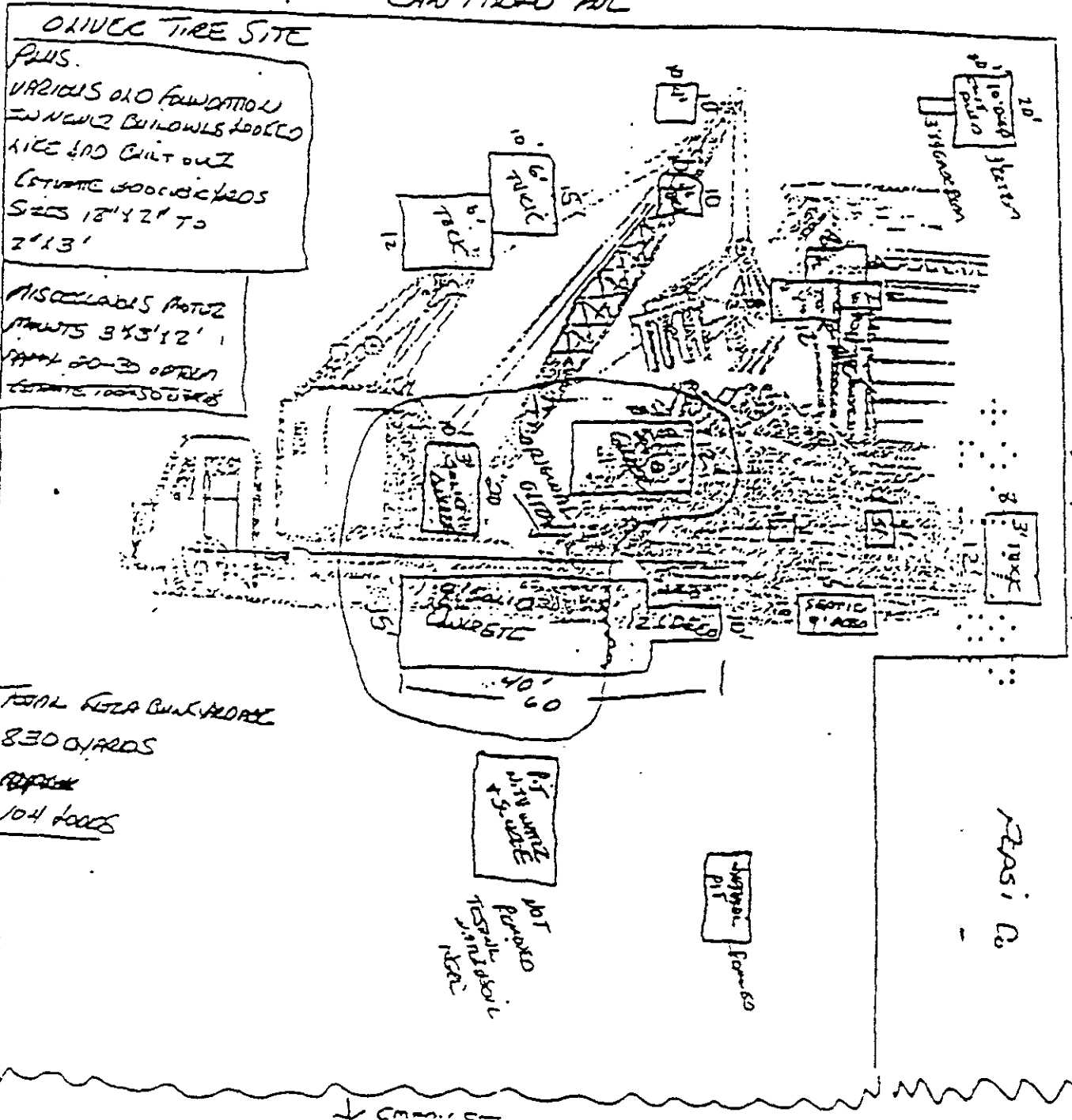


5401 SAN LEONARDO STREET. OAKLAND, CALIFORNIA 94601 (415) 636-4800

FOR STANDARD BRANDS

NOT TO SCALE.
APPROXIMATE LOCATIONS OF ETC

SAN PABLO AVE



APPENDIX C

ENVIROPRO REFERENCE FIGURES AND TABLES

45th STREET

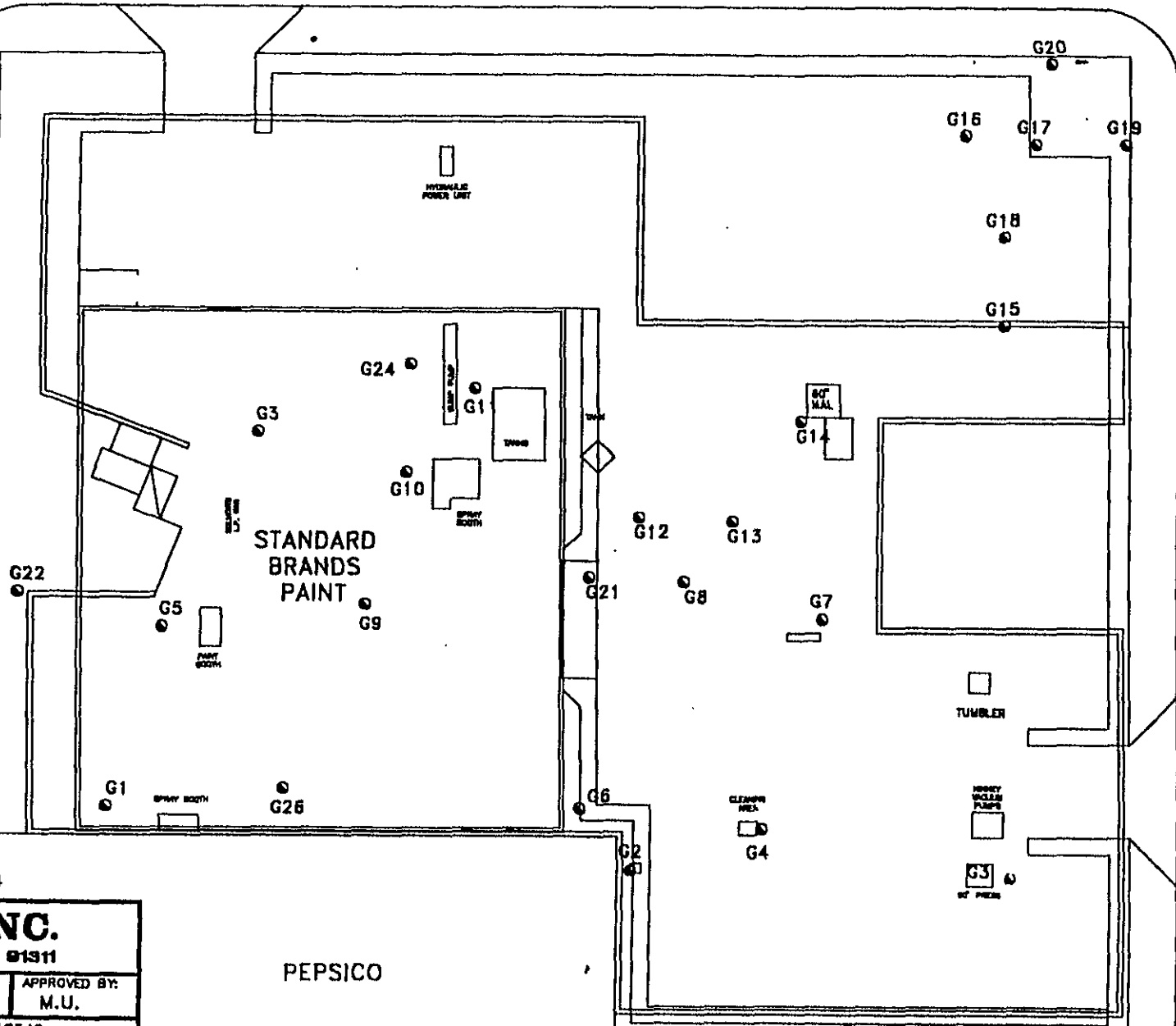


RESIDENTIAL

EMERY STREET

RESIDENTIAL

SAN PABLO AVENUE



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ENVIROPRO, INC.

9766 Elton Ave., Chatsworth, CA 91311

DESIGNED BY: G.P.	DRAWN BY: G.P.	CHECKED BY: F.G.	APPROVED BY: M.U.
----------------------	-------------------	---------------------	----------------------

DATE: July 28, 1994	PROJ. NO.: 10542
---------------------	------------------

STANDARD BRANDS
4343 San Pablo Avenue, Emeryville, California

SITE MAP SHOWING POTENTIAL
SOURCES & GEOPROBE LOCATIONS

DRAWING NO.

2

PEPSICO

0 10 20 30 40 50 FEET

TABLE 1
Potential Sources at 4343 San Pablo Avenue
(from building plan)

Sources Identified Based on the City of Emeryville Building Department Plan	
Potential Source	Regulated Chemical
Paint booth	Paint thinner/paint (ketones)
Spray booth	Paint thinner/paint (ketones); solvents
Sump	Solvents
Hydraulic press	Heavy oil/Diesel
Tank	Solvents
Cleaning area	Solvents
Solvent LP gas	Solvents

TABLE 2
Potential Sources at 4343 San Pablo Avenue
(from Environ)

Sources Based on the Plot Plan provided by Environ	
Potential Source	Regulated Chemical
Water and sludge sump	Solvents
Sump	Solvents
Former oil and gas depot and fuel pumps	Gasoline
Septic tank	Not applicable

45th STREET

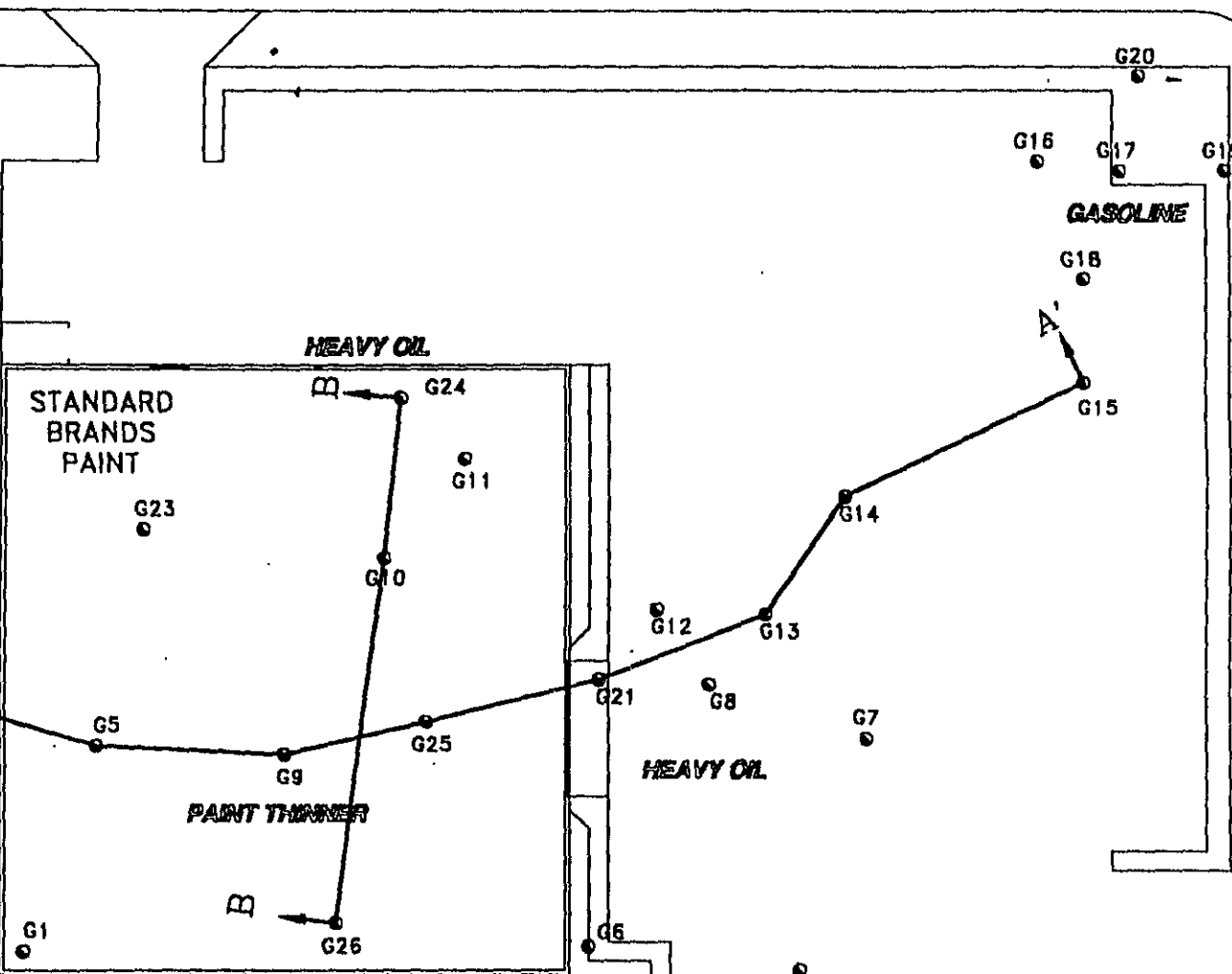


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PEPSICO

ENVIROPRO, INC.

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DESIGNED BY: F.G.	DRAWN BY: G.P.	CHECKED BY: F.G.	APPROVED BY: M.U.
----------------------	-------------------	---------------------	----------------------

DATE: July 22, 1994	PROJ. NO.: 10542
---------------------	------------------

STANDARD BRANDS
4343 San Pablo Avenue Emeryville, California

MAP OF SITE SHOWING
LINES OF SECTION

DRAWING NO.
3

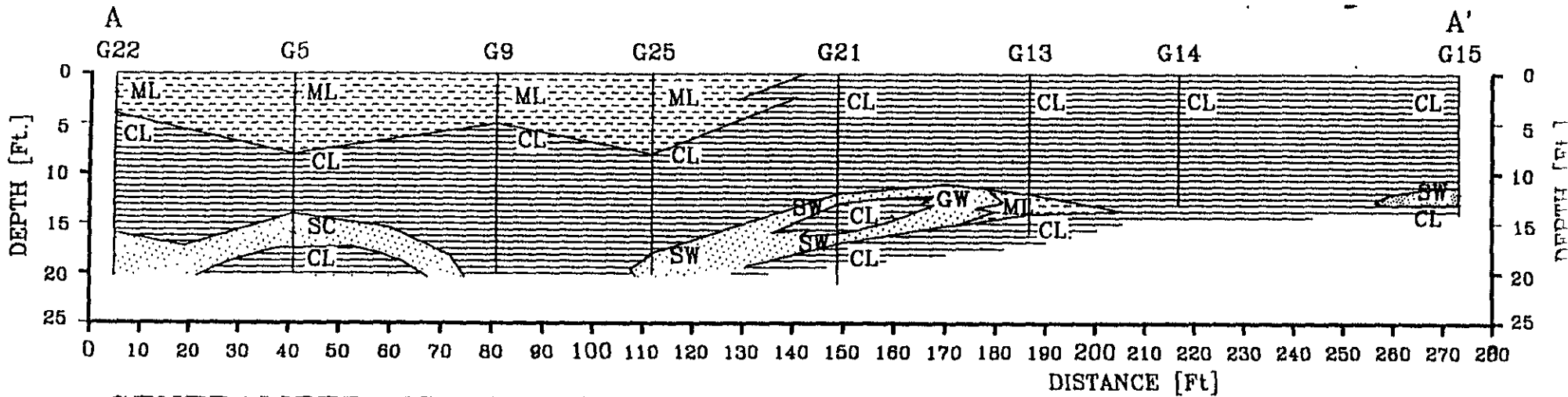
LEGEND

G2
● GEOPROBE BORING LOCATION

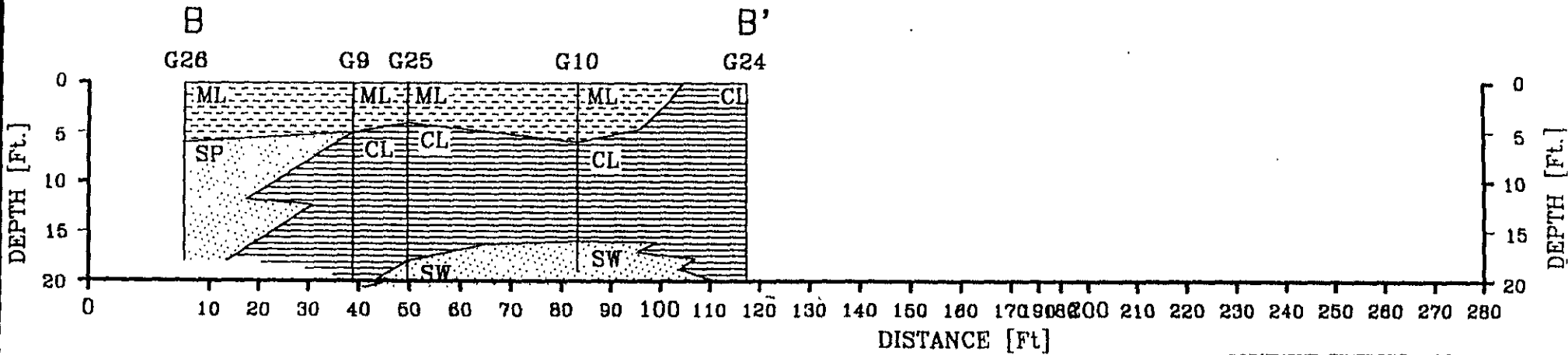
A
— LINE OF SECTION




0 10 20 30 40 50 FEET

GENERALIZED CROSS SECTION A - A'



GENERALIZED CROSS SECTION B - B'



- | | | |
|---|------|--------------------------|
|  | SAND | GW - WELL-GRADED GRAVELS |
|  | SILT | SW - WELL GRADED SANDS |
|  | CLAY | SP - POORLY GRADED SANDS |
| | | SM - SILTY SANDS |
| | | SC - CLAYEY SANDS |
| | | ML - SILT |
| | | CL - CLAY |

Isoc concentration Contour Interval 100 ppm

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ENVIROPRO, INC.			
9788 Eton Ave., Chatsworth, CA 91311			
DESIGNED BY: G.P.	DRAWN BY: G.P.	CHECKED BY: F.G.	APPROVED BY: M.U.
DATE: July 28, 1994		PROJ. NO.: 10542	
STANDARD BRANDS			
GENERALIZED LITHOLOGIC CROSS SECTIONS A-A' - B-B'			DRAWING NO. 4

TABLE 4
Standard Brands - Emeryville
Laboratory Results for Gasoline and Diesel Adjacent to the Pepsico Property
Project No. 10542

<i>Soil Analyses (mg/Kg) for Gasoline</i>								
Compound	G1	G2	G5	G6	G9	G22	G25	G26
Benzene	NA	BRL @ 5,11.5	BRL @ 12,18	BRL @ 3,8,11	NA	BRL @ 13	NA	0.097 @ 12
Ethylbenzene	BRL @ 13	BRL @ 5,11.5	BRL @ 12,18	BRL @ 3,8,11	NA	0.63 @ 13	NA	0.29 @ 8
Toluene	NA	BRL @ 5,11.5	BRL @ 12,18	BRL @ 3,8,22	NA	0.058 @ 13	NA	0.16 @ 6 0.16 @ 8 0.21 @ 12
Xylenes	NA	BRL @ 5,11.5	BRL @ 12,18	BRL @ 3,8,11	NA	0.81 @ 13		3.3 @ 6 5.1 @ 8 3.8 @ 12
8015M (Gasoline)	NA	NA	160 @ 12 55 @ 18	NA	150 @ 11	100 @ 13	NA	1300 @ 6 1600 @ 8 1500 @ 12
8015M (Diesel)	NA	BRL @ 11.5	BRL @ 12	NA	BRL @ 11	NA	NA	1500 @ 6 7300 @ 8 360 @ 12 BRL @ 18
<i>Water Analyses (mg/L, BTEX) (mg/L, 8015M) for Gasoline</i>								
Compound	G1	G2	G5	G6	G9	G22	G25	G26
Benzene	BRL	BRL	BRL	BRL	NA	NA	NA	5.0
Ethylbenzene	BRL	BRL	BRL	BRL	NA	NA	NA	26
Toluene	1.3	1.1	BRL	0.9	NA	NA	NA	13
Xylenes	1.8	2.5	BRL	2.5	NA	NA	NA	100
8015M (Gasoline)	NA	NA	36	NA	22,000	NA	NA	37
8015M (Diesel)	NA	BRL	NA	BRL	BRL	NA	NA	30

Note: @ 12 Sample depth in feet below ground surface
 NA Not analyzed
 BRL Below Reporting Limit

TABLE 5
Standard Brands - Emeryville
Laboratory Results for Gasoline
at the Old Gasoline Fuel Depot
Project No. 10542

<i>Soil Analyses (mg/Kg) for Gasoline</i>						
Compound	G15	G16	G17	G18	G19	G20
Benzene	BRL @ 3,11	0.12 @ 11	BRL @ 11	BRL @ 7	BRL @ 11	NA
Ethylbenzene	BRL @ 3,11	0.78 @ 11	0.007 @ 11	BRL @ 7	BRL @ 11	NA
Toluene	BRL @ 3,11	0.59 @ 11	0.005 @ 11	BRL @ 7	BRL @ 11	NA
Xylenes	BRL @ 3,11	3.0 @ 11	0.013 @ 11	BRL @ 7	BRL @ 11	NA
8015M	BRL @ 3,11	150 @ 11	1.8 @ 9 1.7 @ 11	BRL @ 7	BRL @ 11	NA
<i>Water Analyses (mg/L, BTEX) (mg/L, 8015M) for Gasoline</i>						
Compound	G15	G16	G17	G18	G19	G20
Benzene	BRL	1.2	0.5	BRL	BRL	BRL
Ethylbenzene	BRL	2.1	0.9	BRL	BRL	BRL
Toluene	1.2	2.6	1.7	1.2	1.7	1.5
Xylenes	2.5	6.3	2.5	2.2	2.1	2.2
8015M	BRL	0.3	0.2	BRL	BRL	BRL

Notes: BRL Below Reporting Limit
 NA Not analyzed
 @ 3 Depth in Feet Below Ground Surface

TABLE 6
Standard Brands - Emeryville
Laboratory Results for Methylene Chloride
 Project No. 10542

Soil and Water Analyses (EPA Method 8010)			
Boring - Depth in Feet	Soil (mg/Kg)	Boring No.	Water (mg/L)
G5-2	BRL	G-5	1000
G5-7	BRL	-	-
G5-12	3900	-	-
G5-15	BRL	-	-
G5-18	2200	-	-
G9-3	BRL	G-9	2400
G9-8	BRL	-	-
G9-11	3400	-	-
G9-15	3300	-	-
G9-19	5300	-	-
G1-13	BRL	G1	NA
G22-13	BRL	G22	NA
G26	NA	G26	NA
G23-8	BRL	G23	NA
G23-17	BRL	-	NA
G25	NA	G25	NA

Note: BRL Method Reporting Limit
 NA Not Handled
 G8-3 Boring Designation and Depth in Feet Below Ground Surface

Trichloroethene was identified in groundwater in Geoprobe soil boring G5 at 140 µg/L (see Table 7). Trichloroethene was not detected in soil in G5 nor was it found in soil in adjacent Geoprobe borings G9, G22 at 13 feet, G1 at 13 feet, and G23 at 8 and 17 feet.

Trichloroethene was not analyzed in water in surrounding Geoprobe borings G1, G22, G26 and G23. G21 and G8 had concentrations of Trichloroethene in groundwater of 40 µg/L and 13 µg/L, respectively.

Trans 1,2-Dichloroethene was identified in groundwater in G8 and G21 at 41 µg/L and 25 µg/L, respectively, which is above the 10 µg/L MCL. Vinyl Chloride was identified in groundwater in G8 and G21 at 3 µg/L and 14 µg/L, respectively.

Trichloroethene and Methylene Chloride were not analyzed in soil or groundwater in G26. The Pepsi warehouse, at present, has a vehicle maintenance area with solvent tanks. The Environ Investigation (Appendix 9 1) found low concentrations of trichloroethene in soil along Emery Street outside the Standard Brands property in the vicinity of G5.

TABLE 7
Standard Brands - Emeryville
Laboratory Results for Chlorinated Solvents
 Project No. 10542

<i>Soil and Water Analyses (EPA Method 8010)</i>			
Boring - Depth in Feet	Soil (µg/Kg)	Boring No.	Water (µg/L)
G2-5	BRL	G2	(29)
G4-3,8,11	BRL	G4	(24)
G5-2,7,12,15,18	BRL	G5	140
G6-3,8,11	BRL	G6	(22)
G7-4,11	BRL	G7	(77)
G8-3	(26)[5]	G-8	13 (49) [41] {3}
G8-7	BRL	-	-
G8-10	(79)[71]	-	-
G12-3	BRL	G12	NA
G12-7	(79)[6]	-	-
G12-11	(6)	-	-
G21-3	(18)	G21	40 (11) [25] {14}
G21-11	BRL	-	-
G21-15	BRL	-	-

Notes: BRL Below Reporting Limit
 13 Results for Trichloroethene
 (49) Results for Methylene Chloride
 [41] Results for Trans 1,2-Dichloroethene
 {3} Results for Vinyl Chloride
 G8-3 Boring Designation and Depth in Feet Below Ground Surface

TABLE 8
Standard Brands - Emeryville
Laboratory Results for Paint Thinner Range Organics
Project No. 10542

<i>Soil and Water Analyses (8015 Modified)</i>			
Boring - Depth in Feet	Soil (mg/Kg)	Boring No.	Water (mg/L)
G9-3	BRL	G-9	520
G9-8	65	-	-
G9-11	180	-	-
G9-15	50	-	-
G9-19	45	-	-
G5-2	610	G-5	120
G5-7	55	-	-
G5-12	55	-	-
G5-15	BRL	-	-
G5-18	BRL	-	-
G25-5	880	G-25	NA
G25-13	590	-	-
G22-13	150	G-22	NA
G21-15	100	G-21	75
G21-19	BRL	-	-
G8-10.5	BRL	G-8	BRL
G-6	NA	G-6	BRL
G-10	NA	G-10	42

Note: BRL Method Reporting Limit
 NA Not Analyzed
 G8-3 Boring Designation and Depth in Feet Below Ground Surface

TABLE 9
Standard Brands - Emeryville
Laboratory Results for Heavy Oil Range Organics
 Project No. 10542

Boring - Depth in Feet	Soil (mg/Kg)	Boring No.	Water (mg/L)
G8-10.5	2400	G-8	100
G12-11	370	G-12	NA
G13-11	BRL	G-13	NA
G21-19	310	G-21	NA
G25-5	NA	G-25	NA
G25-13	NA	-	NA
G-14	NA	G-14	NA
G-7	NA	G-7	NA

Note: NA Not analyzed
 G8-3 Boring Designation and Depth in
 Feet Below Ground Surface

<i>Sump Pump Location Soil Analysis (8015 Modified)</i>	
Boring - Depth in Feet	Soil (mg/Kg)
G24-16	130

6.5 Total Recoverable Petroleum Hydrocarbons (TRPH) in Soil

EPA Test Method 418.1 was used to test soil for Total Recoverable Petroleum Hydrocarbons (TPRH). This test was used as a screen to help guide the direction of the investigation. TRPH were identified in soil across the entire site. The greatest concentration of TRPH generally occurs along the south central portion of the property. Relatively high TRPH concentrations were identified in groundwater in sandy soils in the vicinity of G26 adjacent to the Pepsi property (see Drawing 9 for map and Drawings 10 and 11 for cross-sections).

45th STREET

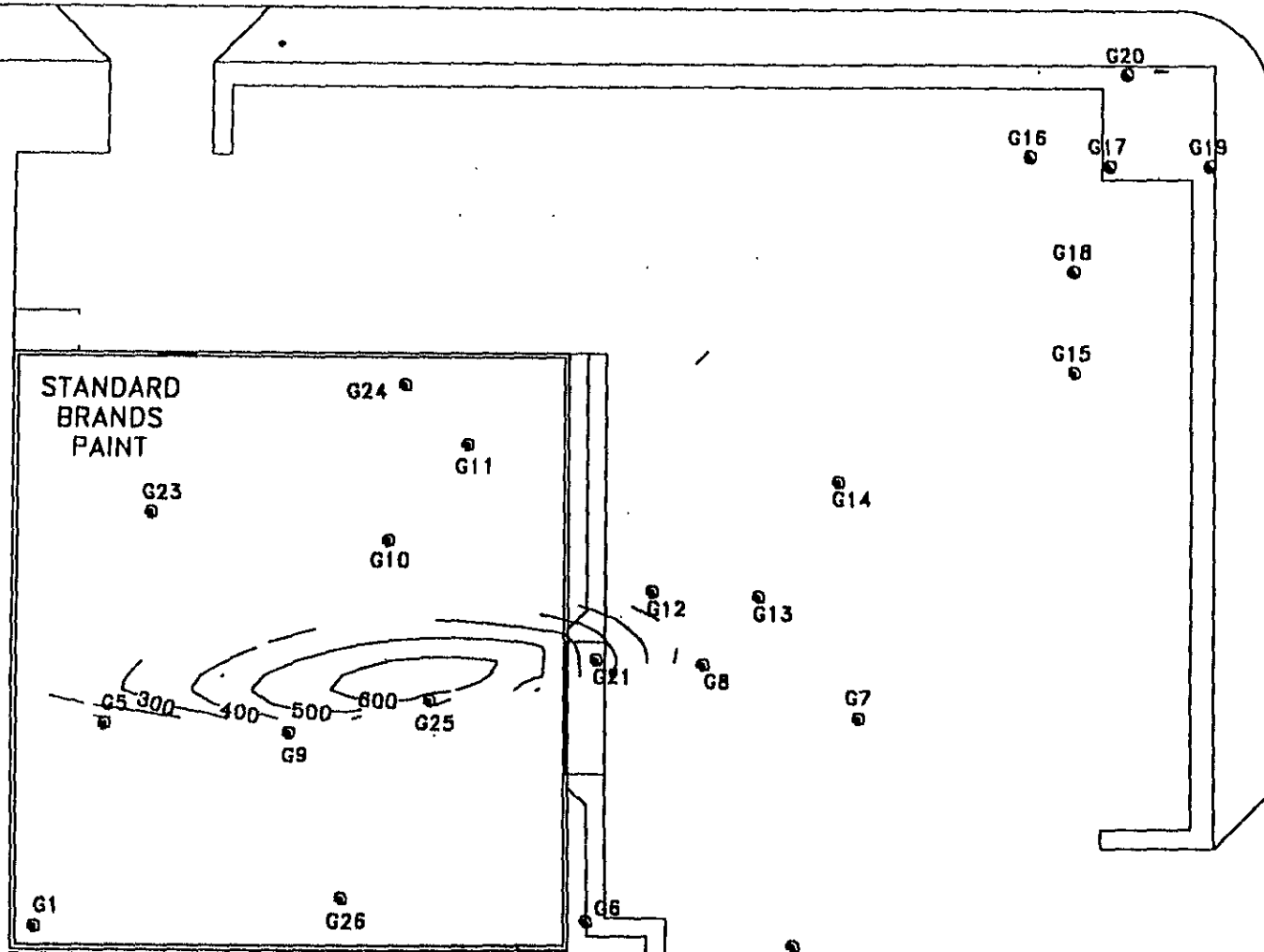


RESIDENTIAL

RESIDENTIAL

EMERY STREET

SAN PABLO AVENUE



STANDARD BRANDS PAINT

PEPSICO

LEGEND

G2
● GEOPROBE BORING LOCATION

Contour Interval 100 ppm



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ENVIROPRO, INC.
8765 Eton Ave., Chatsworth, CA 91311

DESIGNED BY: F.G.	DRAWN BY: G.P.	CHECKED BY: F.G.	APPROVED BY: M.U.
----------------------	-------------------	---------------------	----------------------

DATE: July 22, 1984	PROJ. NO.: 10542
---------------------	------------------

STANDARD BRANDS
4343 San Pablo Avenue Emeryville, California

GENERALIZED MAP OF PAINT THINNER PLUME BETWEEN DEPTHS OF 8 AND 13 FEET	DRAWING NO. 6
--	-------------------------

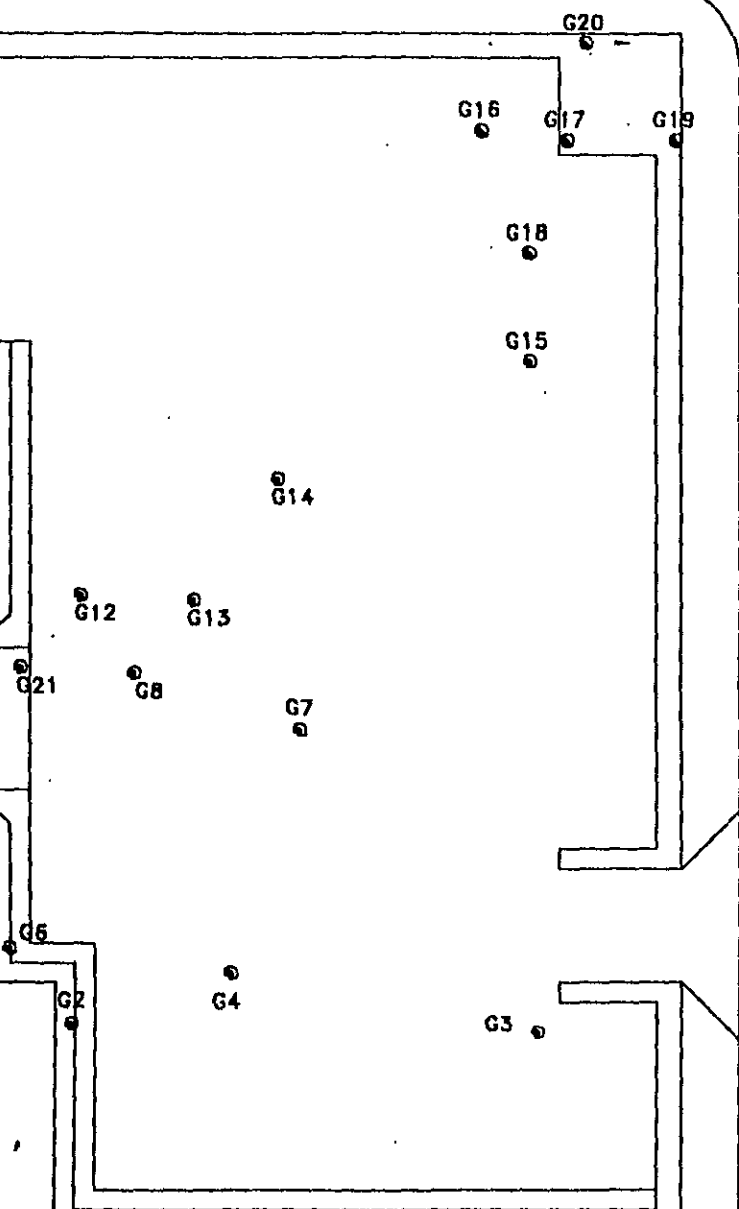
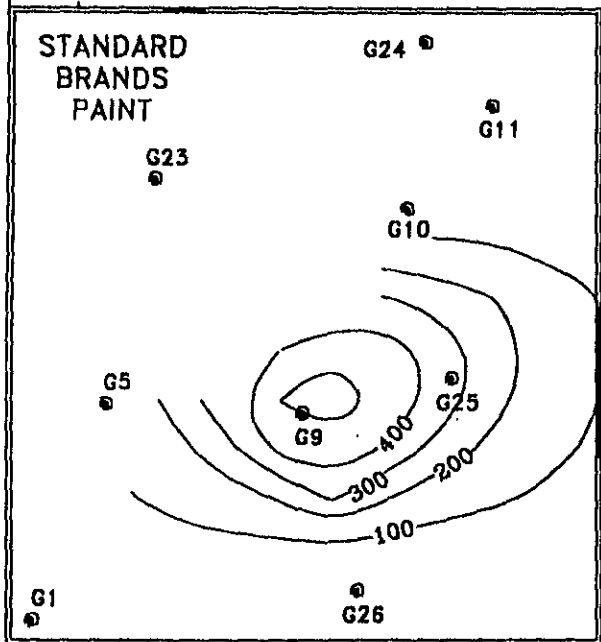
45th STREET



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EMERY STREET

SAN PABLO AVENUE



PEPSICO

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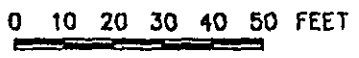
ENVIROPRO, INC.
9785 Eton Ave., Chataworth, CA 91311

DESIGNED BY: F.G.	DRAWN BY: G.P.	CHECKED BY: F.G.	APPROVED BY: M.U.
DATE: July 22, 1994		PROJ. NO.: 10542	
STANDARD BRANDS 4343 San Pablo Avenue Emeryville, California			
GENERALIZED MAP OF THE PAINT PAINT THINNER PLUME BETWEEN DEPTHS OF 15 AND 19 FEET			DRAWING NO. 7

LEGEND

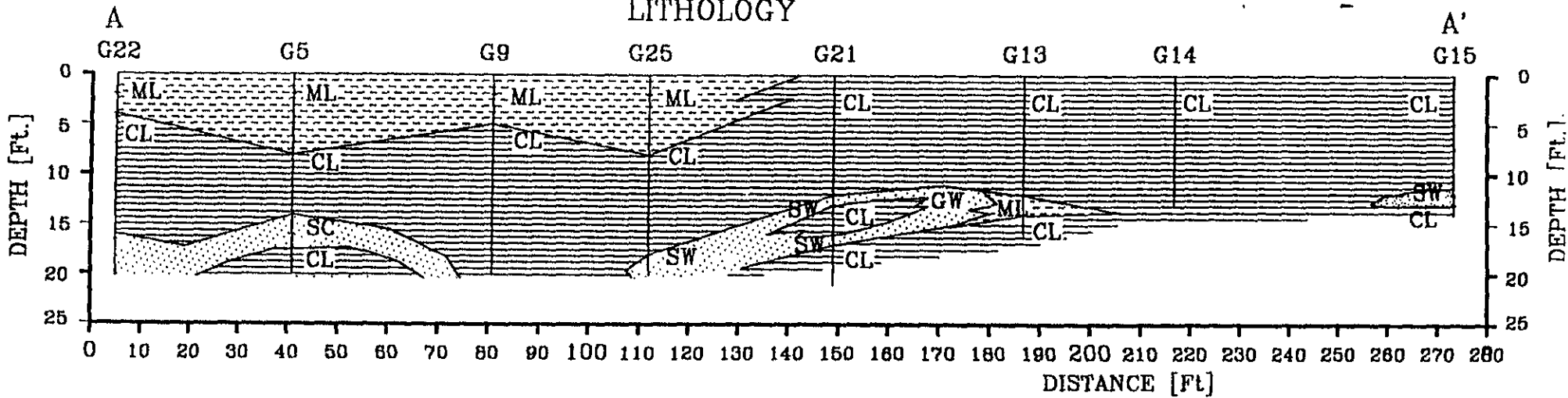
G2
● GEOPROBE BORING LOCATION

Contour Interval 100 ppb

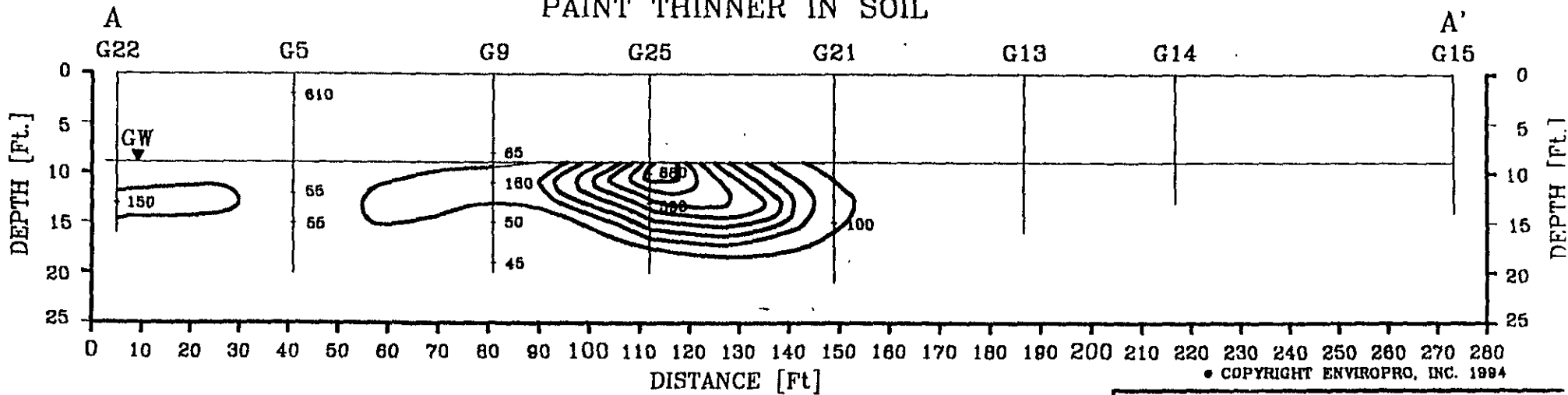


GENERALIZED CROSS SECTION A - A'

LITHOLOGY



PAINT THINNER IN SOIL



• COPYRIGHT ENVIROPRO, INC. 1994

- | | | |
|--|------|--------------------------|
| | SAND | GW - WELL-GRADED GRAVELS |
| | SILT | SW - WELL GRADED SANDS |
| | CLAY | SP - POORLY GRADED SANDS |
| | | SM - SILTY SANDS |
| | | SC - CLAYEY SANDS |
| | | ML - SILT |
| | | CL - CLAY |

Isoconcentration Contour Interval 100 ppm

ENVIROPRO, INC.			
6785 Eton Ave., Chatsworth, CA 91311			
DESIGNED BY: G.P.	DRAWN BY: G.P.	CHECKED BY: F.G.	APPROVED BY: M.U.
DATE: July 28, 1994		PROJ. NO.: 10542	
STANDARD BRANDS			
GENERALIZED CROSS SECTION A-A' OF PAINT THINNER PLUME			DRAWING NO. 8

45th STREET



RESIDENTIAL

RESIDENTIAL

EMERY STREET

SAN PABLO AVENUE

STANDARD BRANDS PAINT

G24

G11

G23

G10

G14

G22

G5

G9

G25

G12

G13

G8

G7

G1

G26

G6

1000

2000

3000

4000

G2

G4

G3

G20

G16

G17

G19

G18

G15

PEPSICO

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ENVIOPRO, INC.

9755 Eton Ave., Chatsworth, CA 91311

DESIGNED BY: F.G.	DRAWN BY: G.P.	CHECKED BY: F.G.	APPROVED BY: M.U.
----------------------	-------------------	---------------------	----------------------

DATE: July 22, 1994	PRJL NO: 10542
---------------------	----------------

STANDARD BRANDS
4343 San Pablo Avenue Emeryville, California

GENERALIZED MAP OF
TOTAL RECOVERABLE PETROLEUM HYDROCARBON
PLUME IN THE VADOSE ZONE

DRAWING NO.
9

0 10 20 30 40 50 FEET

~~ILLUSTRATION~~

G2
● GEOPROBE BORING LOCATION

45th STREET



RESIDENTIAL

RESIDENTIAL

EMERY STREET

SAN PABLO AVENUE

STANDARD BRANDS PAINT

G24

G11

G23

G10

G14

G22

G12

G13

G5

G9

G25

G21

G8

G7

4000

5000

6000

7000

3000

2000

1000

G1

G26

G6

G4

G2

G3

G20

G16

G17

G19

G18

G15

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ENVIROPRO, INC.

9788 Eton Ave., Chatsworth, CA 91311

PEPSICO

DESIGNED BY: F.G.	DRAWN BY: G.P.	CHECKED BY: F.G.	APPROVED BY: M.U.
DATE: July 22, 1994		PROJ. NO.: 10542	

STANDARD BRANDS

4343 San Pablo Avenue Emeryville, California

GENERALIZED MAP OF
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
PLUME IN SATURATED ZONE

DRAWING NO.

10

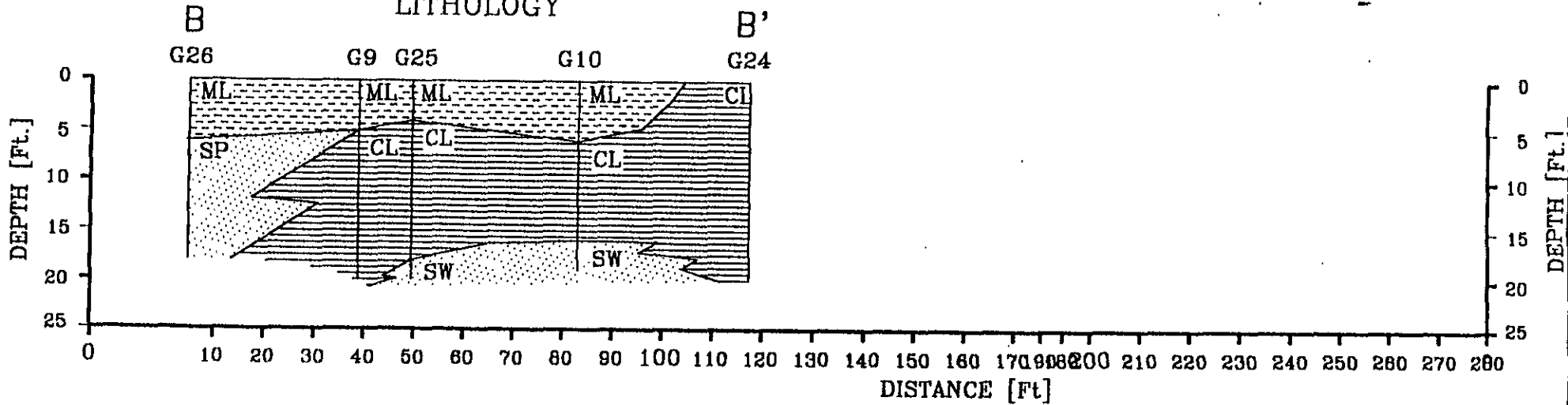
0 10 20 30 40 50 FEET

~~ILLUSTRATION~~

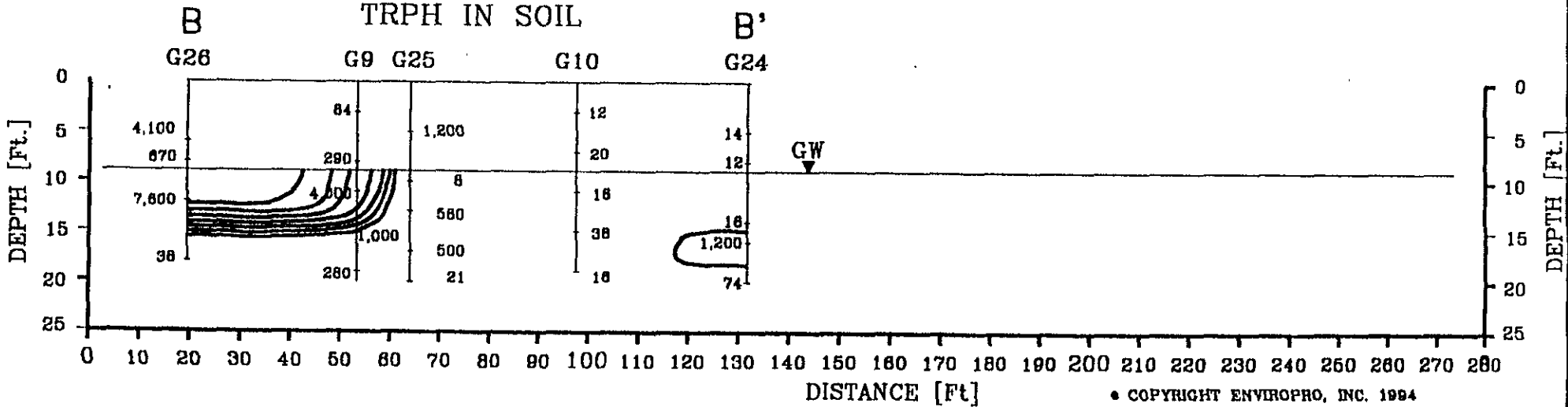
G2
● GEOPROBE BORING LOCATION

GENERALIZED CROSS SECTION B - B'

LITHOLOGY



TRPH IN SOIL



- SAND
- SILT
- CLAY
- GW - WELL-GRADED GRAVELS
- SW - WELL GRADED SANDS
- SP - POORLY GRADED SANDS
- SM - SILTY SANDS
- SC - CLAYEY SANDS
- ML - SILT
- CL - CLAY

Isoconcentration Contour Interval 1,000 ppm

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ENVIROPRO, INC.			
9766 Eton Ave., Chatsworth, CA 91311			
DESIGNED BY: G.P.	DRAWN BY: G.P.	CHECKED BY: F.G.	APPROVED BY: M.U.
DATE: July 28, 1994		PROJ. NO.: 10542	
STANDARD BRANDS			
GENERALIZED CROSS SECTION B-B'			DRAWING NO.
TRPH PLUME			11

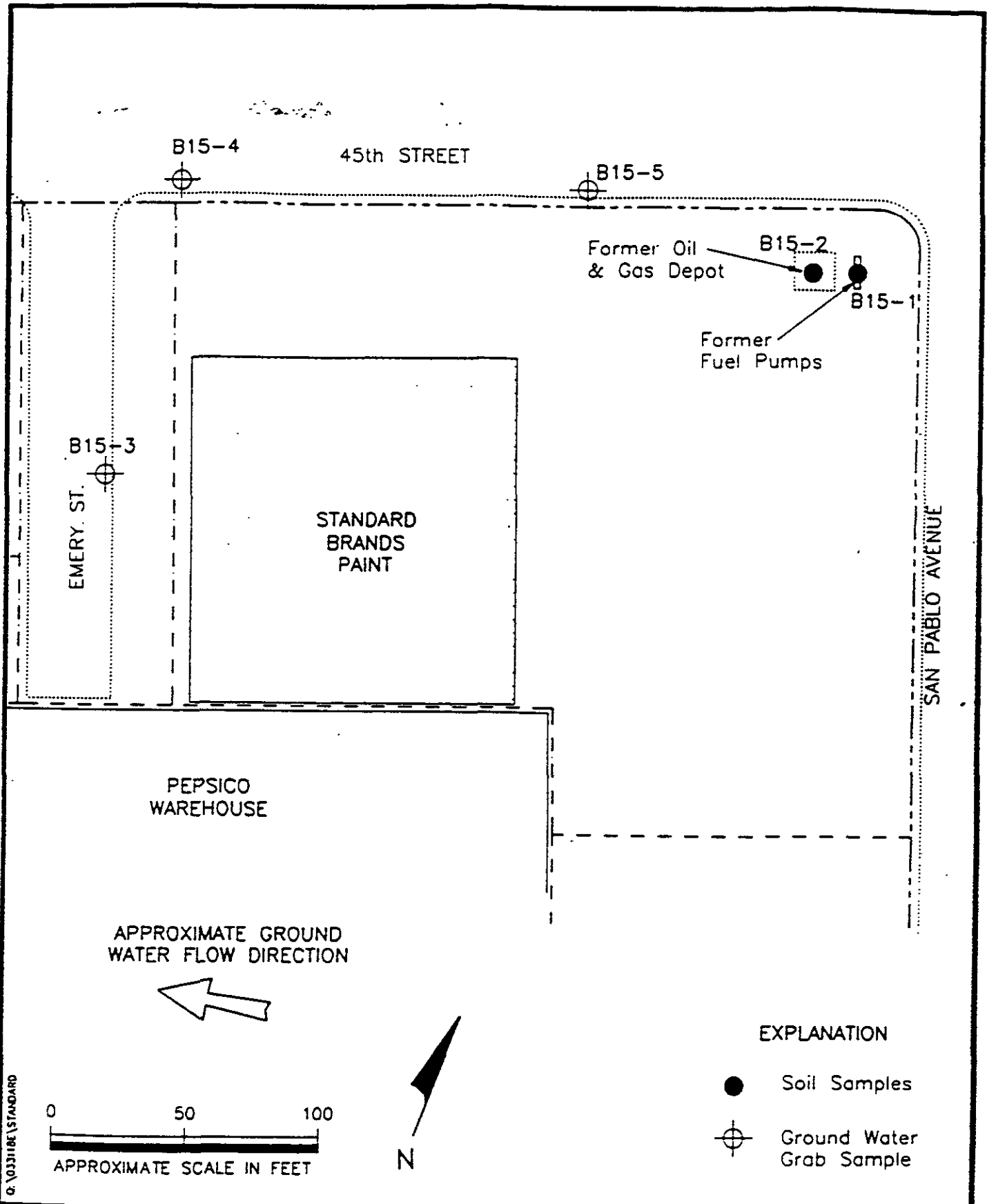
APPENDIX D

ENVIRON REFERENCE FIGURES AND TABLES

PHASE II INVESTIGATION

1993

0617TCLRPT



EXPLANATION

- Soil Samples
- ⊕ Ground Water Grab Sample

ENVIRON

Counsel in Health and Environmental Science

Site Plan and Sampling Locations
 Standard Brands Paint (Property 15)
 Kaiser/Emeryville Site
 Emeryville, California

Figure
1

Drafter: DC

Date: 12/16/93

Contract Number: 03-3118E

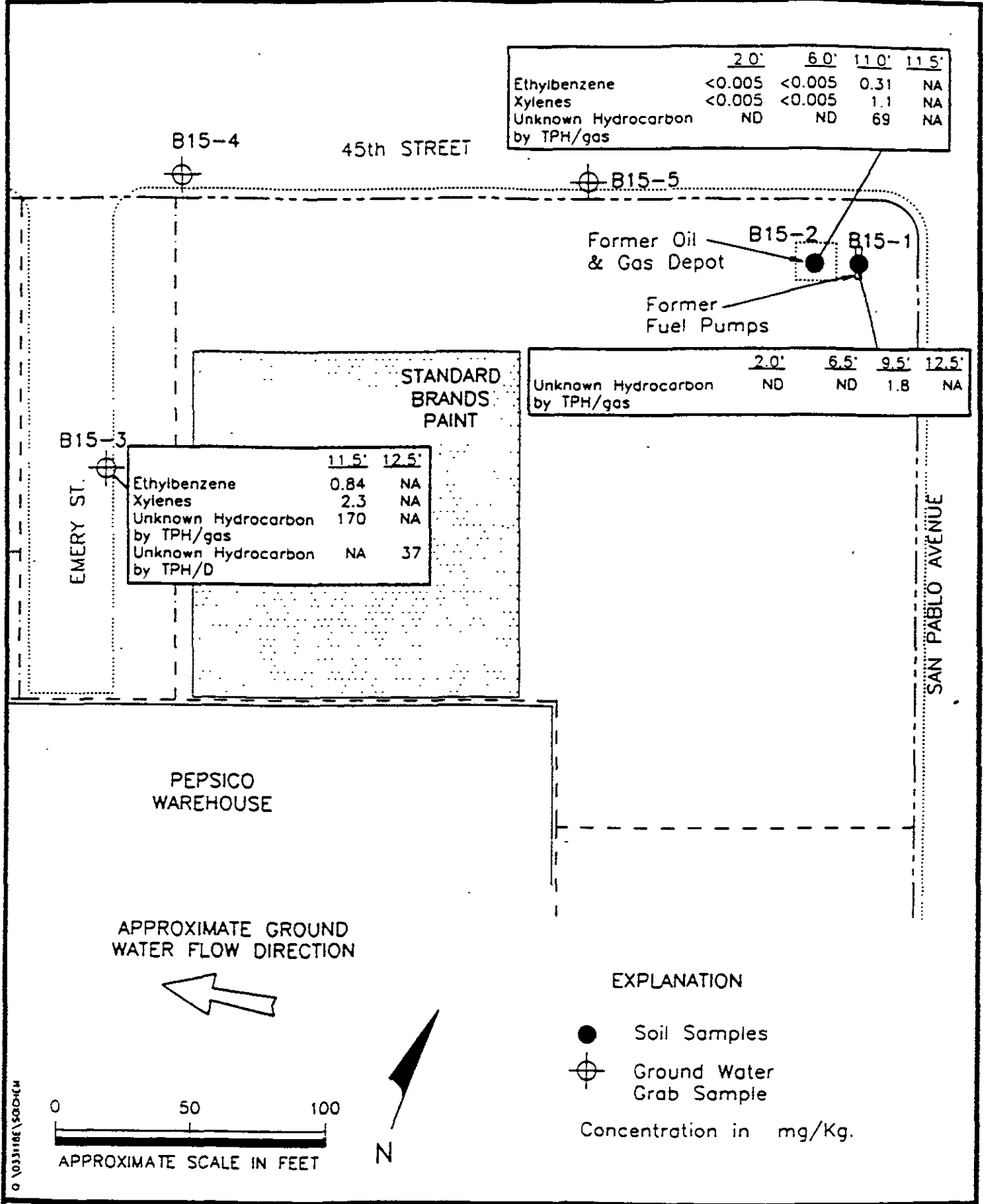
Approved:

Revised:

	2.0'	6.0'	11.0'	11.5'
Ethylbenzene	<0.005	<0.005	0.31	NA
Xylenes	<0.005	<0.005	1.1	NA
Unknown Hydrocarbon by TPH/gas	ND	ND	69	NA

	2.0'	6.5'	9.5'	12.5'
Unknown Hydrocarbon by TPH/gas	ND	ND	1.8	NA

	11.5'	12.5'
Ethylbenzene	0.84	NA
Xylenes	2.3	NA
Unknown Hydrocarbon by TPH/gas	170	NA
Unknown Hydrocarbon by TPH/D	NA	37

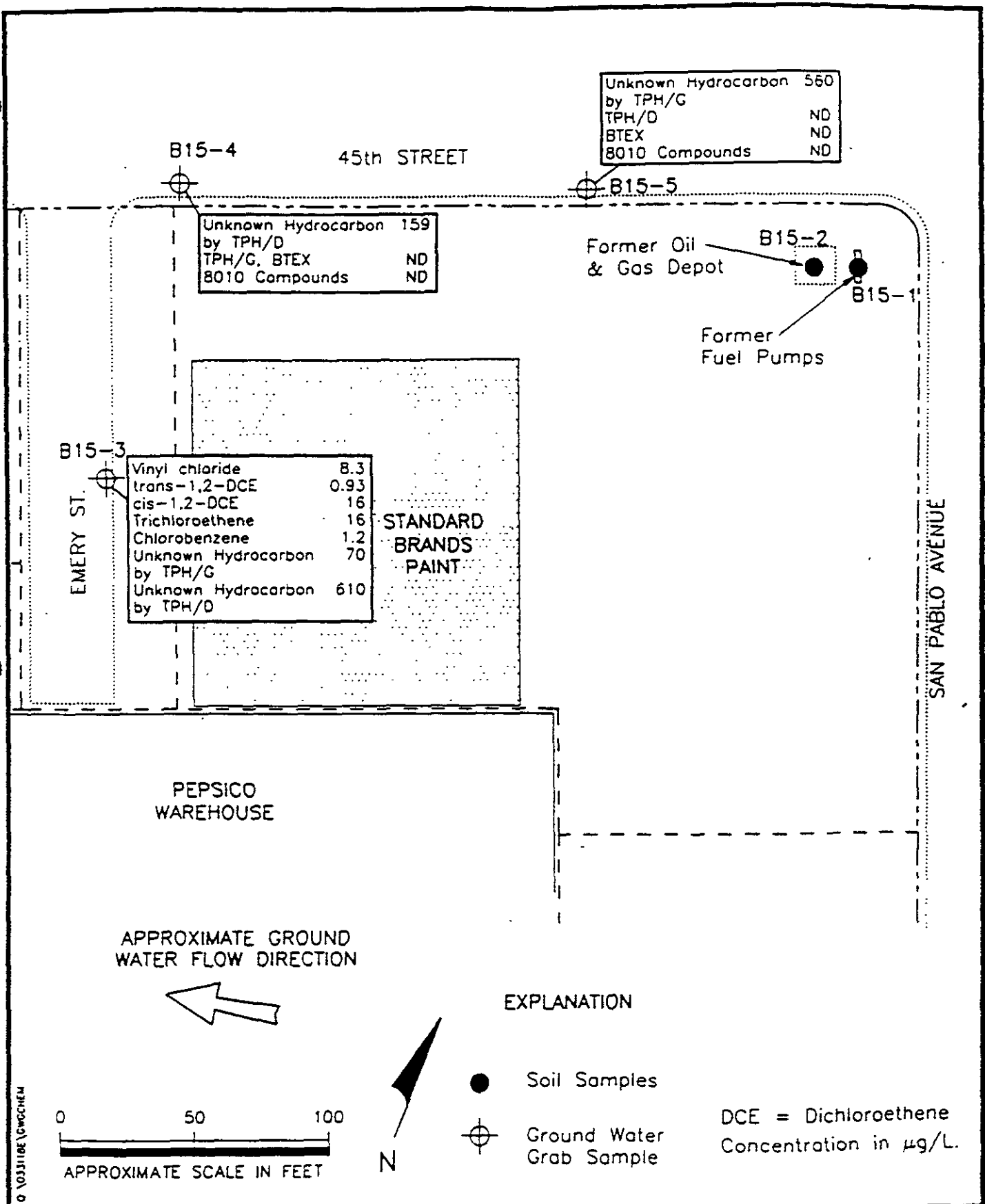


ENVIRON

Counsel in Health and Environmental Science

Soil Chemical Test Results
 Standard Brands Paint (Property 15)
 Kaiser/Emeryville Site
 Emeryville, California

Figure
2



ENVIRON

Counsel in Health and Environmental Science

Ground Water Grab Chemical Test Results
 Standard Brands Paint (Property 15)
 Kaiser/Emeryville Site
 Emeryville, California

Figure

3

Drafter: DC

Date: 12/16/93

Contract Number: 03-3118E

Approved:

Revised:

TABLE 2: SOIL AND GROUND WATER GRAB SAMPLE CHEMICAL TEST RESULTS
 Standard Brands Paints - Preliminary Phase II Site Investigation
 Kaiser Permanente/Emeryville, California

ENVIRON Sample ID	EPA Method 8015 (Modified) Extractable Hydrocarbons				EPA Method 8015 (Modified) Purgeable Hydrocarbons						EPA Method 8010 Halogenated Hydrocarbons
	Diesel	Kerosene	Motor Oil	Unknown	Benzene	Toluene	Ethylbenzene	Xylenes	Gasoline	Unknown	
Soil Samples (concentrations in mg/kg)											
B15-1@2.0	<1.0	<1.0	<10.0	NI)	<0.005	<0.005	<0.005	<0.005	<1	NI)	NA
B15-1@6.5	<1.0	<1.0	<10.0	NI)	<0.005	<0.005	<0.005	<0.005	<1	ND	NA
B15-1@9.5	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<1	1.8	NA
B15-1@12.5	<1.0	<1.0	<10.0	NI)	NA	NA	NA	NA	NA	NA	NA
B15-2@2.0	<1.0	<1.0	<10.0	NI)	<0.005	<0.005	<0.005	<0.005	<1	NI)	NA
B15-2@6.0	<1.0	<1.0	<10.0	NI)	<0.005	<0.005	<0.005	<0.005	<1	NI)	NA
B15-2@11.0	NA	NA	NA	NA	<0.02	<0.02	0.31	1.1	<4	69	NA
B15-2@11.5	<1.0	<1.0	<10.0	NI)	NA	NA	NA	NA	NA	NA	NA
B15-3@11.5	NA	NA	NA	NA	<0.02	<0.02	0.84	2.3	<4	170	ALL ND
B15-3@12.5	<1.0	<1.0	<10.0	37	NA	NA	NA	NA	NA	NA	NA
Water Samples (concentrations in µg/l.)											
B15-3	<88	<88	<880	610	<0.5	<0.5	<0.5	<0.5	<5	70	vinyl chloride = 0.3 trans-1,2-DCE = 0.93 cis-1,2-DCE = 16 TCE = 16 chlorobenzene = 1.2
B15-4	<50	<50	<500	150	<0.5	<0.5	<0.5	<0.5	<5	NI)	ALL ND
B15-5	<50	<50	<500	560	<0.5	<0.5	<0.5	<0.5	<5	ND	ALL ND
Trip Blank	NA	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	<5	ND	chloroform = 0.67

Notes:

NI) - Not detected

NA - Not analyzed

<0.005 - Not detected above reporting limit

trans-1,2-DCE: trans-1,2-Dichloroethene

cis-1,2-DCE: cis-1,2-Dichloroethene

TABLE 1 - SUMMARY OF SAMPLING PROGRAM
Standard Brands Paints - Preliminary Phase II Site Investigation
Kaiser Permanente/Emeryville, California

Area of Investigation	Boreg No.	Soil Sample Depths (ft)	Ground Water Grab Sample	TPH Gas (note 1)	BTEX (note 2)	TPH Diesel Oil (note 3)	Halogenated VOCs (note 4)
Former Oil and Gas Depot Fuel Pumps	B15-1	2.0, 6.5	no	x	x	x	--
		9.5		x	x		
		12.5				x	
Depot Building	B15-2	2.0, 6.0	no	x	x	x	--
		11.0		x	x		
		11.5				x	
Downgradient Boundary Emery Street	B15-3		yes	x	x	x	x
		11.5		x	x		x
		12.5				x	
Emery/45th Corner	B15-4	--	yes	x	x	x	x
45th Street	B15-5	--	yes	x	x	x	x
Total Samples:							
Soil		10	--	7	7	7	1
Ground Water		--	3	3	3	3	3

Notes:

- (1) TPH/Gasoline tested by modified EPA Method 8015.
- (2) Benzene, toluene, ethylbenzene, and xylene (BTEX) tested by modified EPA Method 8015.
- (3) TPH/Diesel, motor oil, kerosene and other hydrocarbons tested by modified EPA Method 8015.
- (4) Halogenated volatile organic compounds (VOCs) tested by EPA Method 8010.

SUBSURFACE REPORT

1995

0617TCL.RPT

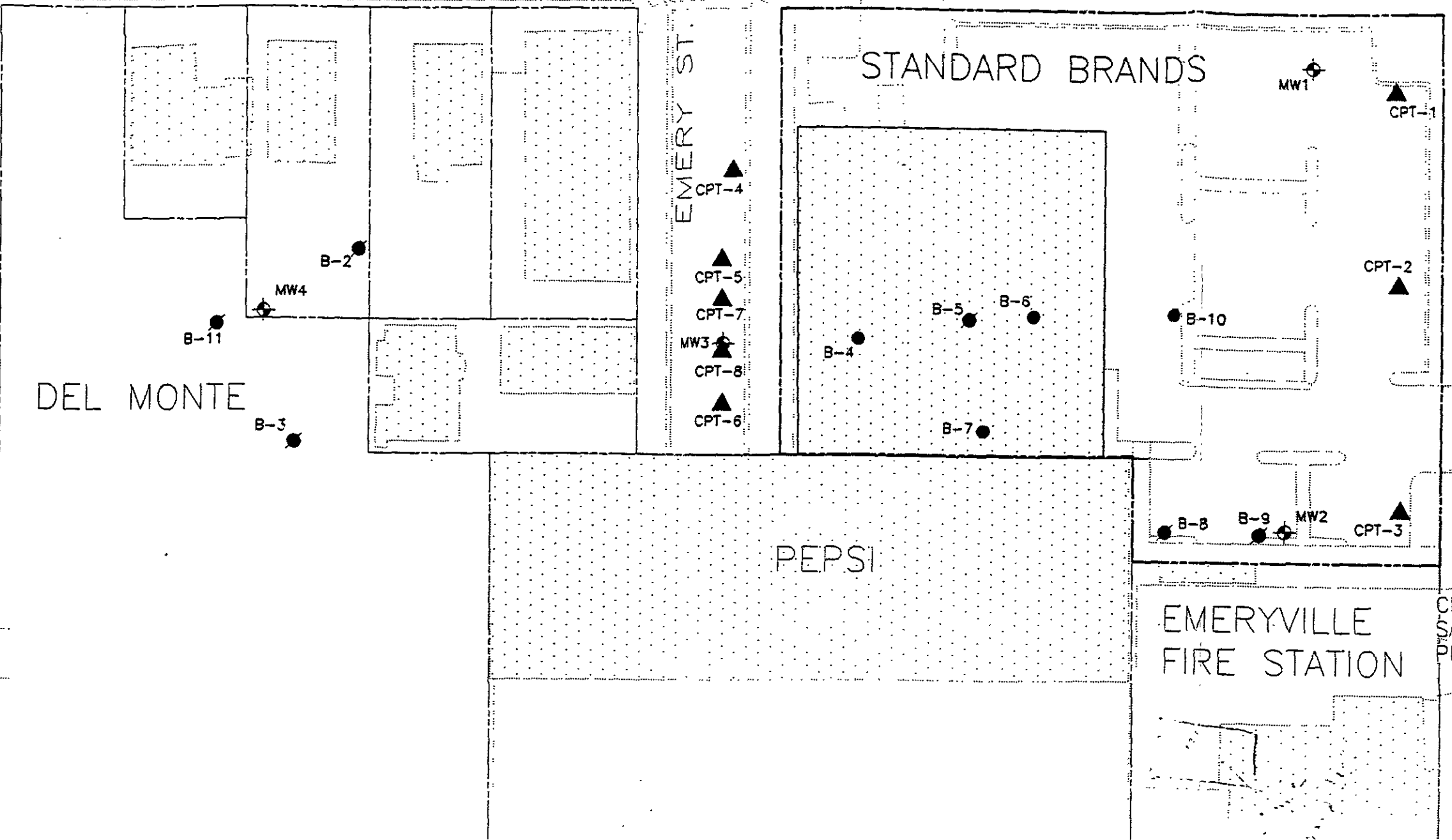
AC TRANSIT

45th STREET

WATTS ST.

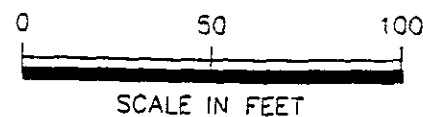
EMERY ST.

SAN PABLO AVENUE



EXPLANATION

- Boring Location
- Boring with Ground Water Grab Sample Location
- ⊕ Monitoring Well Location
- ▲ Cone Penetrometer Testing and Ground Water Grab Sample Location



ENVIRON

5820 Shellmound Street, Suite 700, Emeryville, California 94608

Site Plan
Standard Brands Paint
Emeryville, California

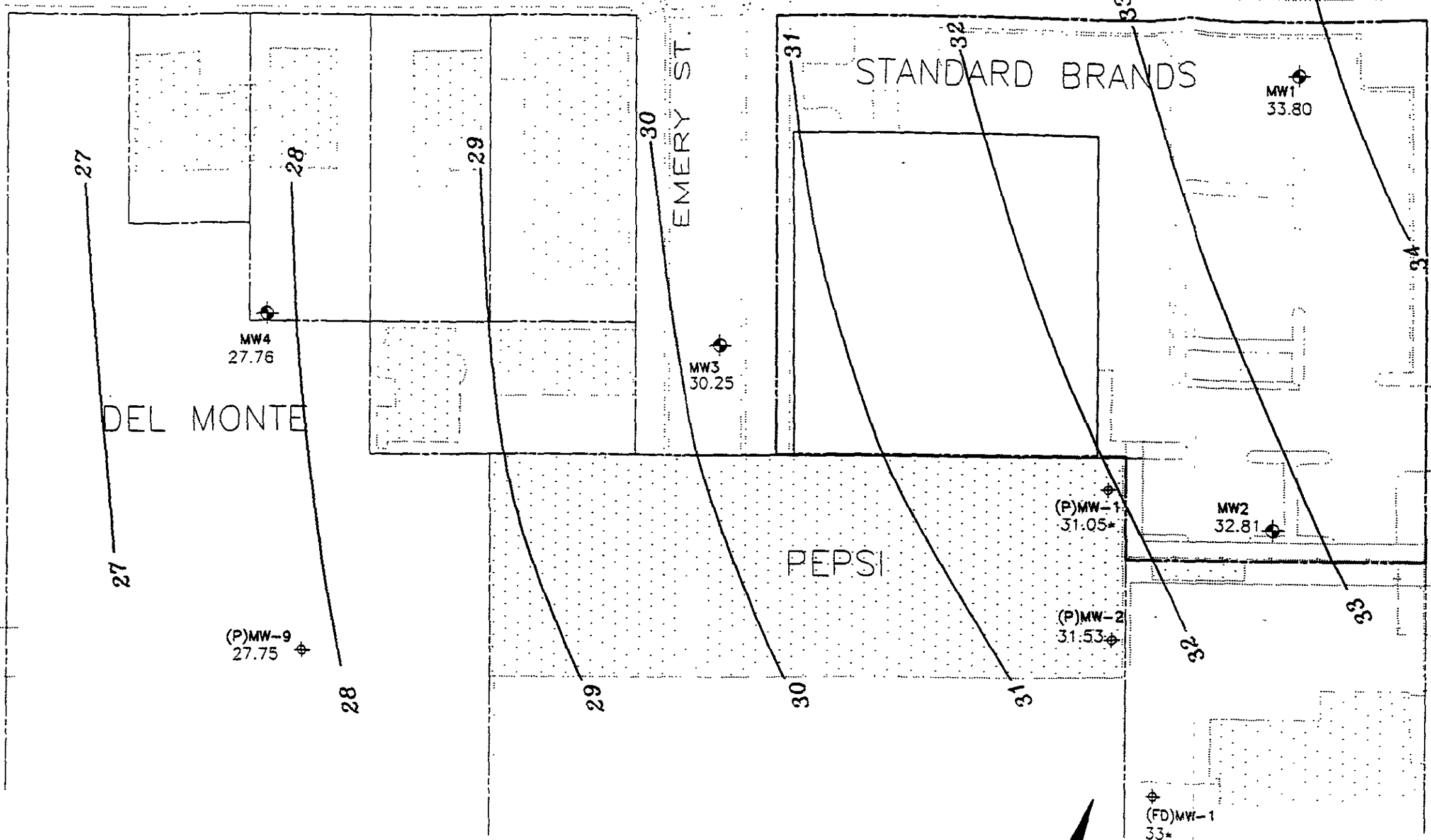
DATE: 8/17/95	CONTRACT NUMBER: 03-46030	FIGURE: 2
DRAFTER: RS	APPROVED:	REVISED:

CITY OF EMERYVILLE
SAN PABLO AVENUE
PROPERTY

03-46030 SITE PLAN

45th STREET

WATTS ST.
26



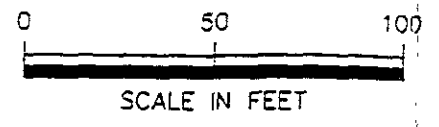
SAN PABLO AVENUE

EXPLANATION

- 28 — 28 Estimated Ground Water Elevation Contour
- ⊕ MWS ENVIRON Monitoring Well
- ⊕ (P)MW-9 Other Monitoring Well

Notes:

- 1) Measurements are in feet above mean sea level.
- 2) "*" = Ground water measurement appears anomalous and was not used for contouring.
- 3) Wells identified with "(P)" were constructed by Pepsi at the New Century Beverage Company Property. Measurements were provided by Weiss Associates.
- 4) Well (FD)MW-1 was constructed for a UST closure at the Emeryville Fire Department site. Permission to measure was given by SEACOR, Inc.



ENVIRON

5820 Shellmound Street, Suite 700, Emeryville, California 94608

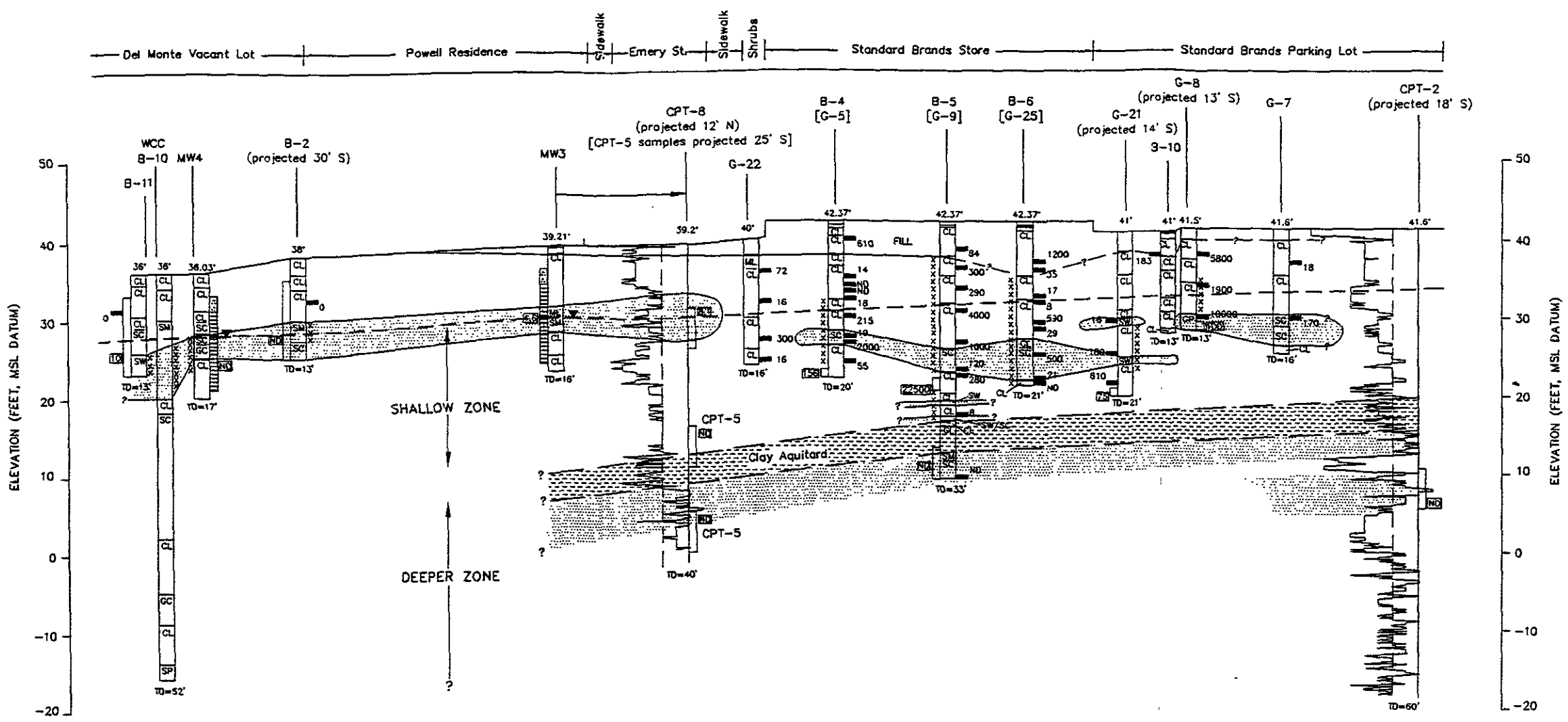
Ground Water Potentiometric Surface
June 27, 1995
Standard Brands Paint
Emeryville, California

Q:\034603D\STAND2

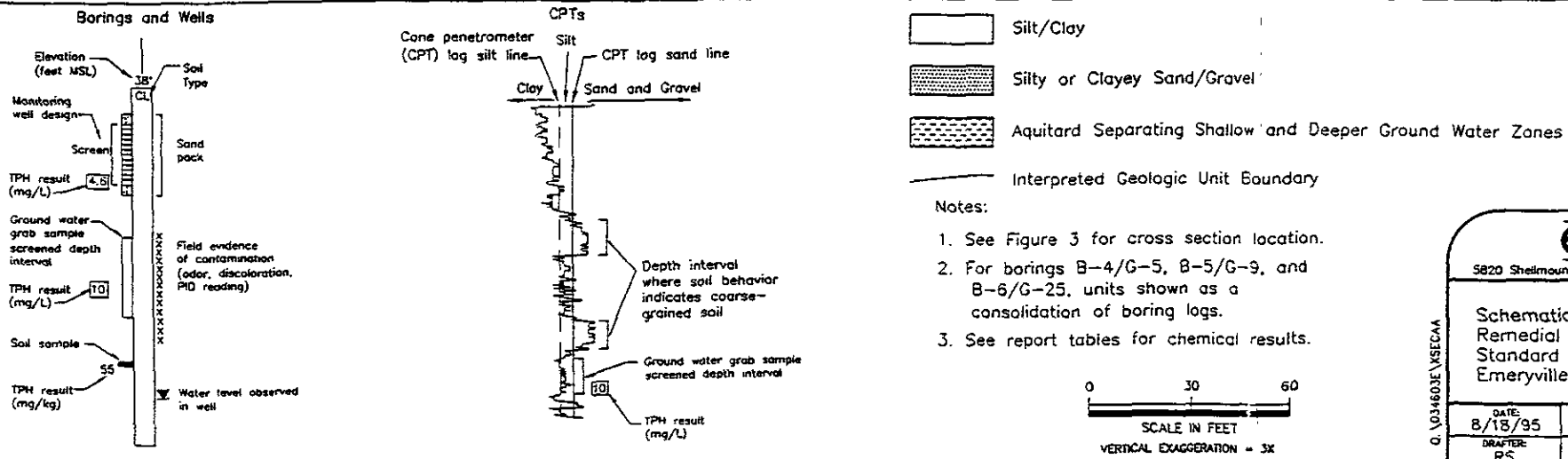
DATE 8/17/95	CONTRACT NUMBER 03-4603D	FIGURE 5
DRAFTER JRK	APPROVED:	REVISED:

A

A'



EXPLANATION



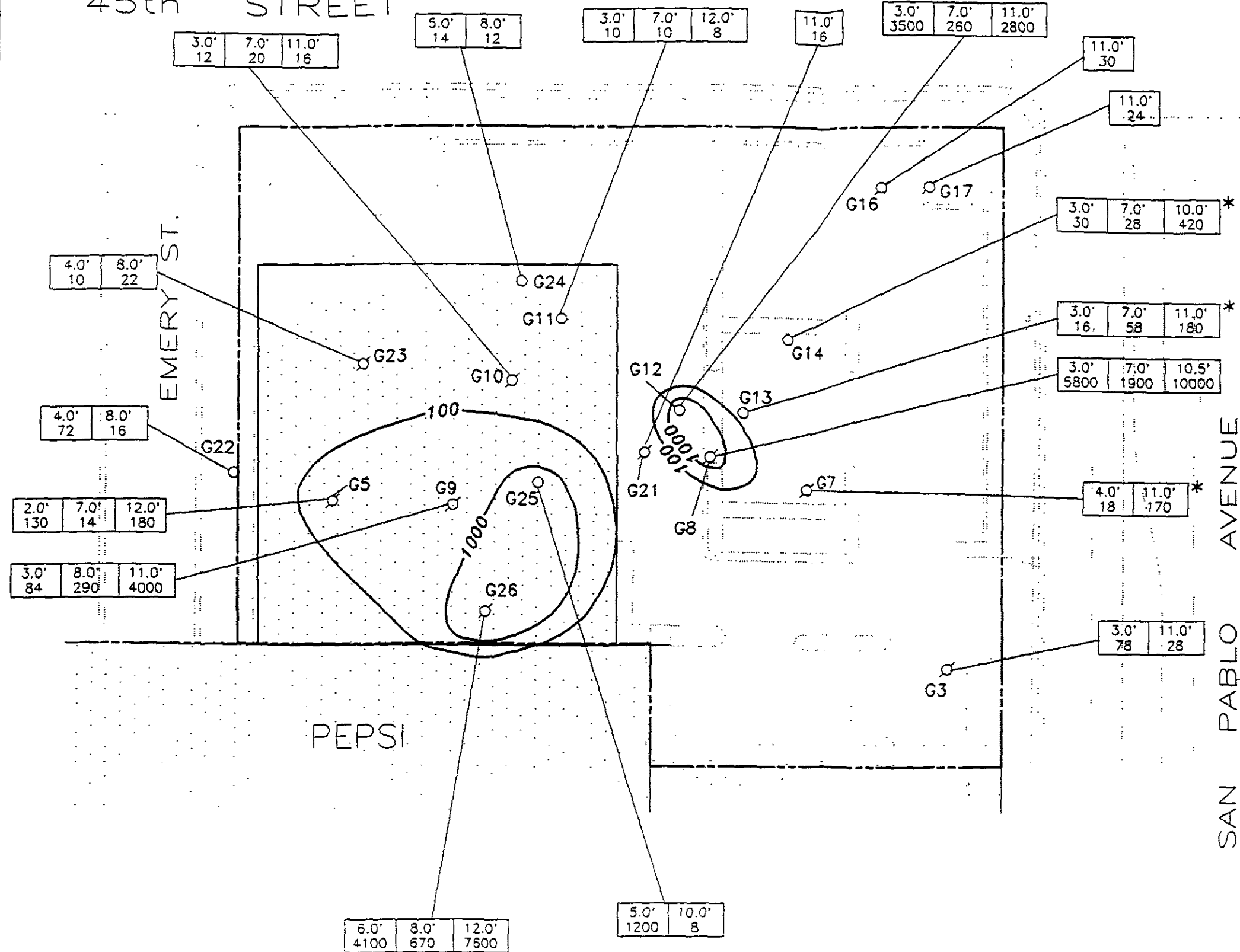
ENVIRON
5820 Shelbourne Street, Suite 700, Emeryville, California 94608

Schematic Geologic Cross-Section A-A'
Remedial Investigation
Standard Brands Site
Emeryville, California

DATE: 8/18/95	CONTRACT NUMBER: 03-4603E	FIGURE 6
DRAFTER: RS	APPROVED:	REVISED:

O.1034603E.VSECAA

45th STREET



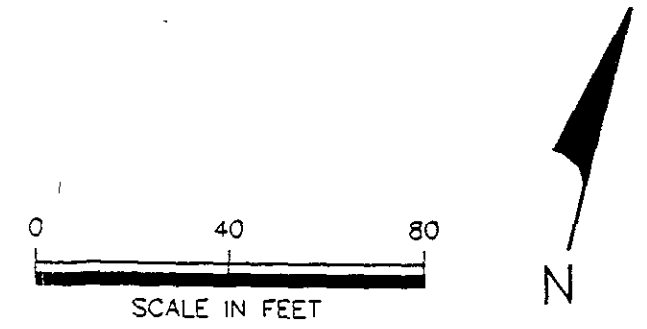
EXPLANATION

- Boring Location
- ⊙ Boring with Ground Water Grab Sample Location
- * Point not contoured. Sample with detection appears to be in the capillary fringe, and overlying soil is relatively unaffected.
- 100— Approximate isoconcentration contour.

All results are in milligrams per kilogram

Reference:

Enviropro, Inc. 1994 (Borings G1 through G26).



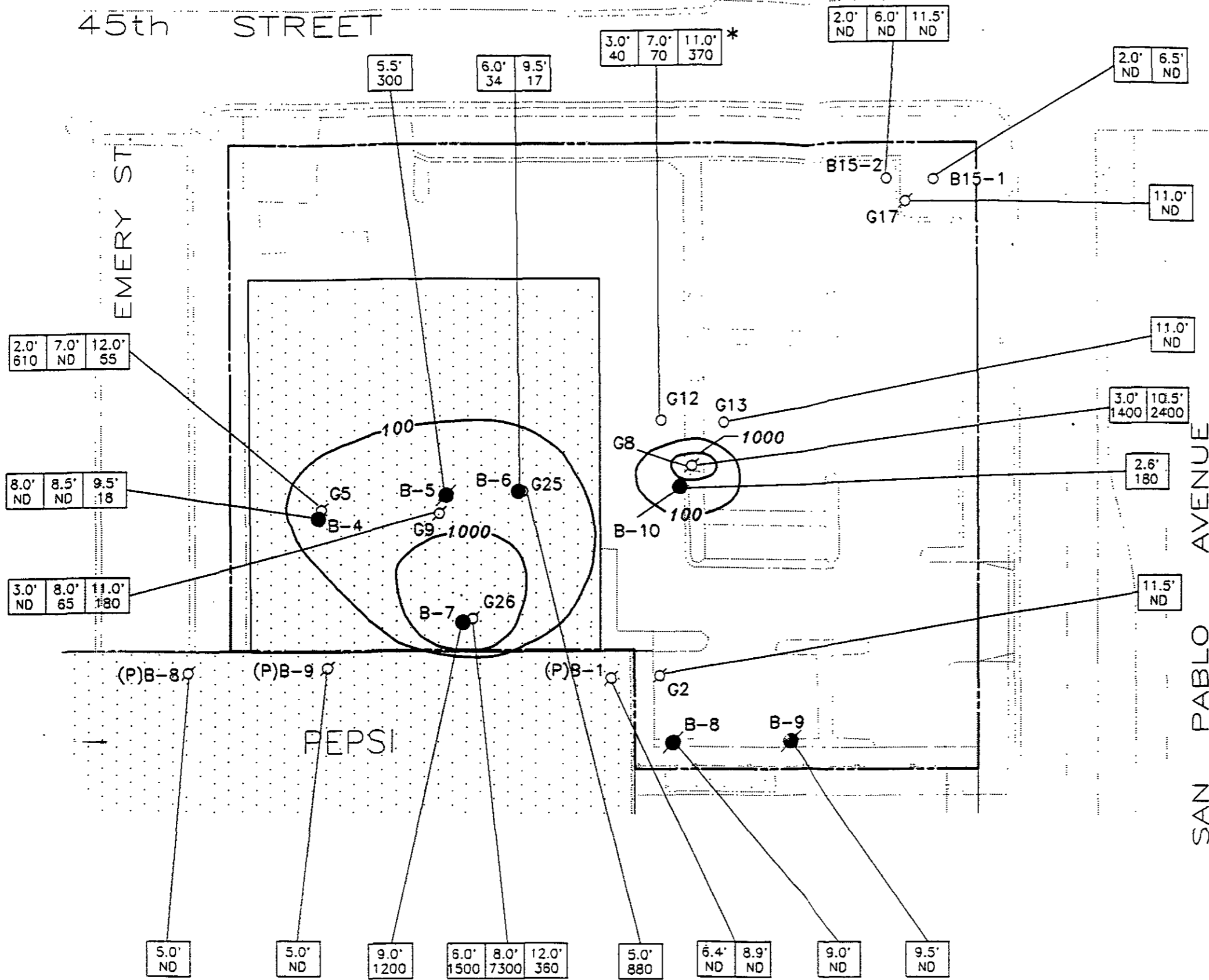
ENVIRON		
<small>5820 Shellmound Street, Suite 700, Emeryville, California 94608</small>		
TRPH in Soil Standard Brands Paint Emeryville, California		
<small>DATE:</small> 8/17/95	<small>CONTRACT NUMBER:</small> 03-4603E	<small>FIGURE</small> 7
<small>DRAFTER:</small> RS	<small>APPROVED:</small>	<small>REVISED:</small>

Q:\0346030\EPABXMP

45th STREET

EMERY ST.

SAN PABLO AVENUE



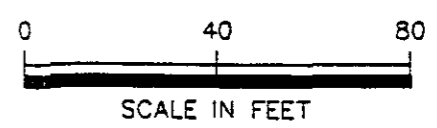
EXPLANATION

- | | | |
|-------|---|--|
| ● | ○ | Boring Location |
| ● | ○ | Boring with Ground Water Grab Sample Location |
| * | | Point not contoured. Sample with detection appears to be in the capillary fringe, and overlying soil is relatively unaffected. |
| —100— | | Approximate isoconcentration contour. |

All results are in milligrams per kilogram
ND = No Detection

References:

- Weiss Associates, 1994 (Pepsi Co. wells and borings are identified with prefix (P)).
- Enviropro, Inc. 1994 (Borings G1 through G26).
- ENVIRON, 1993 (Borings B15-1 through B15-5).



ENVIRON

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Extractable Hydrocarbons in Soil
Standard Brands Paint
Emeryville, California

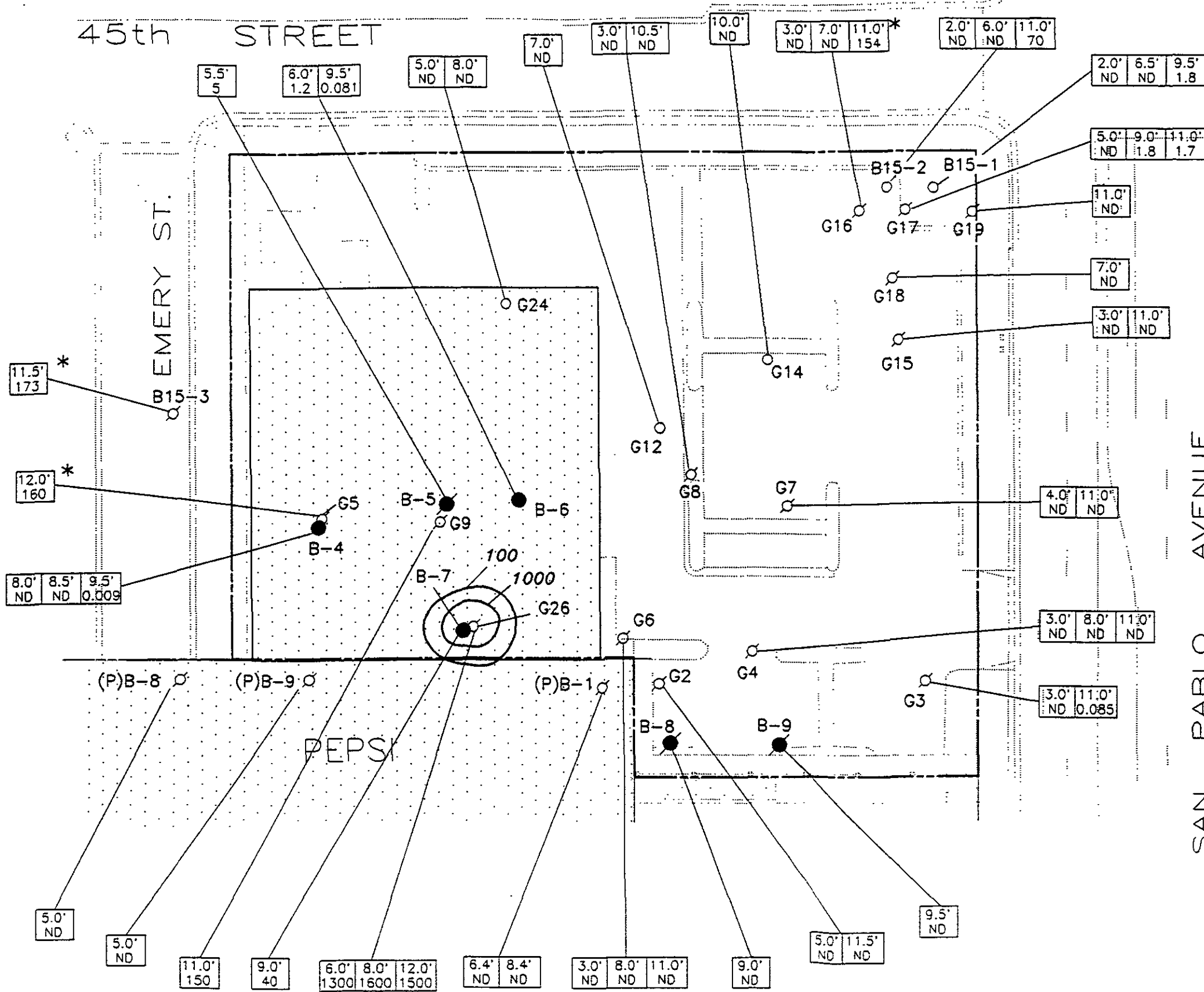
0:\0346030\EPHBMXP

DATE 8/17/95	CONTRACT NUMBER 03-4603E	FIGURE 8
DRAFTER RS	APPROVED:	REVISED:

45th STREET

EMERY ST.

SAN PABLO AVENUE



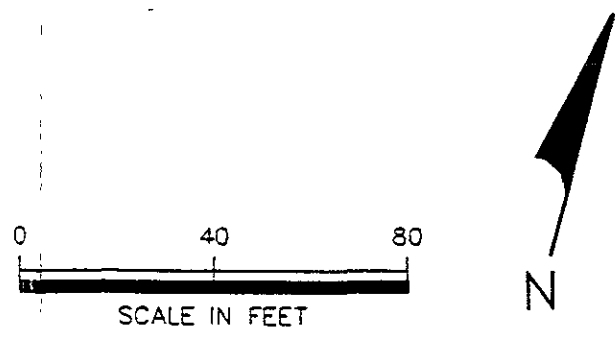
EXPLANATION

- | | | |
|-------|---|--|
| ● | ○ | Boring Location |
| ● | ○ | Boring with Ground Water Grab Sample Location |
| * | | Point not contoured. Sample with detection appears to be in the capillary fringe, and overlying soil is relatively unaffected. |
| —100— | | Approximate isoconcentration contour. |

All results are in milligrams per kilogram
ND = No Detection

References:

- Weiss Associates, 1994 (Pepsi Co. wells and borings are identified with prefix (P)).
- Enviropro, Inc. 1994 (Borings G1 through G26).
- ENVIRON, 1993 (Borings B15-1 through B15-5).



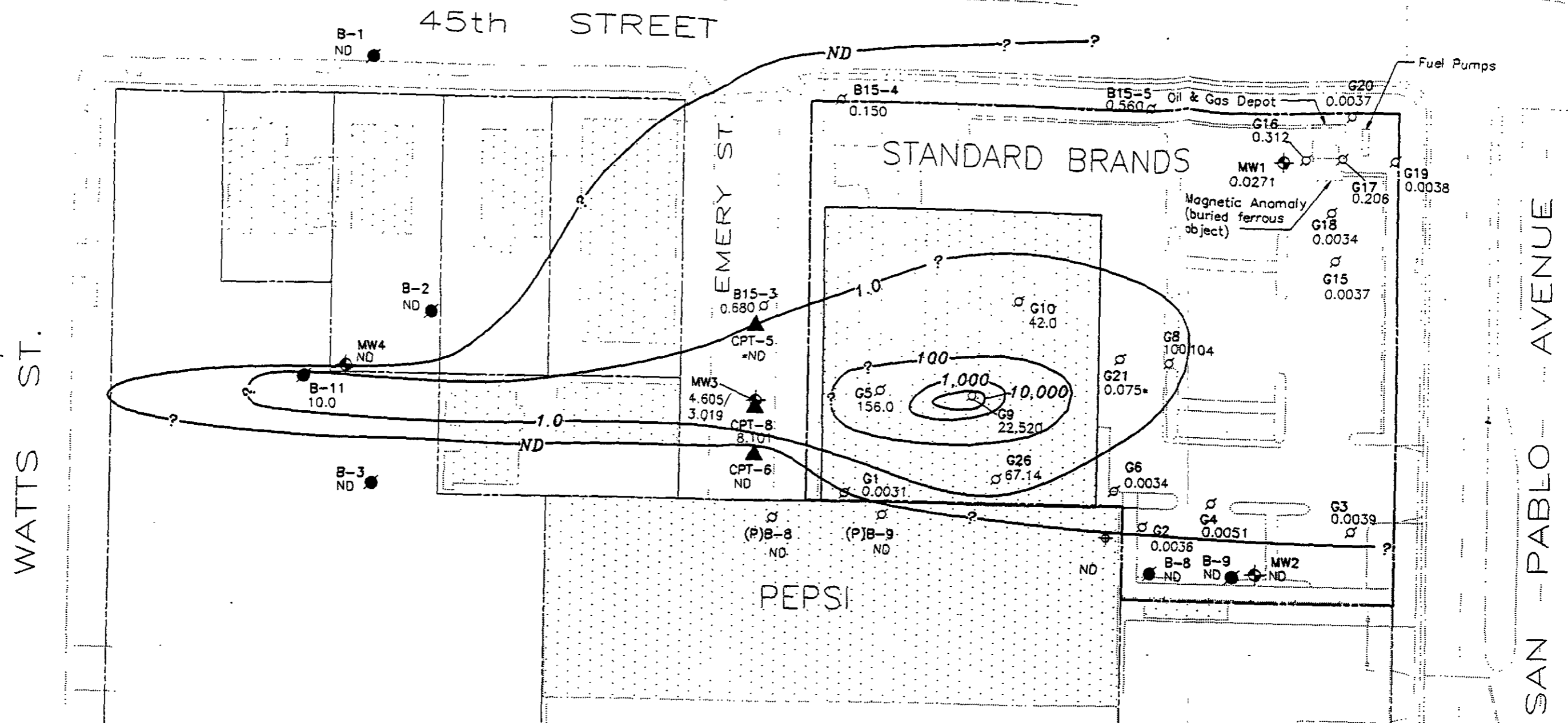
ENVIRON

5820 Shellmound Street, Suite 700, Emeryville, California 94608

TVH in Soil
Standard Brands Paint
Emeryville, California

d:\0346030\0459004P

DATE: 8/17/95	CONTRACT NUMBER: 03-4603E	FIGURE: 9
DRAFTER: RS	APPROVED:	REVISED:



EXPLANATION

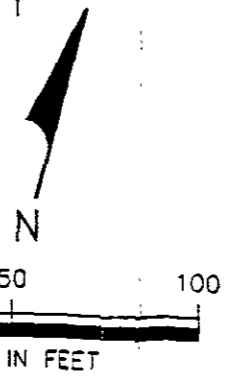
- | | | |
|-----------|-----|--|
| ● | ○ | Boring Location |
| ● | ○ | Boring with Ground Water Grab Sample Location |
| ⊕ | ⊕ | Monitoring Well Location |
| ▲ | --- | Cone Penetrometer Testing and Ground Water Grab Sample Location |
| 1.0 — 1.0 | | Estimated Isoconcentration Contour of TPH in ground water (mg/L) |
| ND | | None Detected |
| xx/xx | | Primary sample result/duplicate sample result |
| * | | Data Not Contoured |

Notes:

- 1) Units are in milligrams per liter (mg/L)
- 2) TPH concentrations shown are the sum of available petroleum hydrocarbon results at that location, including all purgable and extractable hydrocarbons, and BTEX compounds.
- 3) Shallow ground water is considered less than approximately 25-30 feet deep.
- 4) Comparison of ground water grab sample results to wells should be made with care, as grab samples typically overestimate concentrations as compared to wells.

References:

1. Weiss Associates, 1994. (Pepsi Co. wells and borings 0 are identified with prefix (P)).
2. Enviropra, Inc. 1994 (Borings G1 through G26).
3. ENVIRON, 1993 (Borings B15-1 through B15-5).



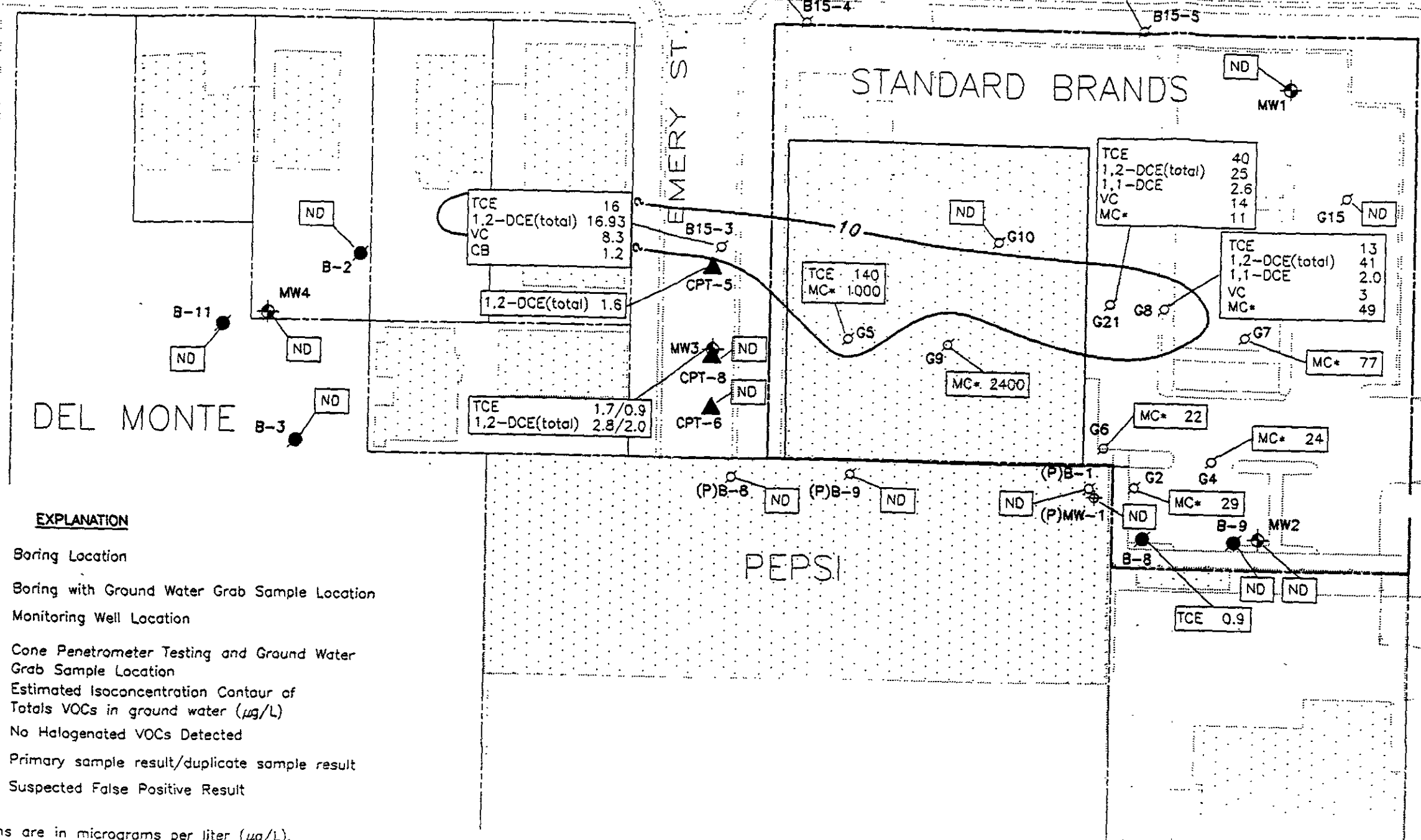
ENVIRON		
3820 Shellmound Street, Suite 700, Emeryville, California 94608		
TPH in Shallow Ground Water Standard Brands Paint Emeryville, California		
DATE 8/18/95	CONTRACT NUMBER 03-4603D	FIGURE 10
DRAFTER RS	APPROVED:	REVISED:

WATTS ST.

45th STREET

EMERY ST.

SAN PABLO AVENUE



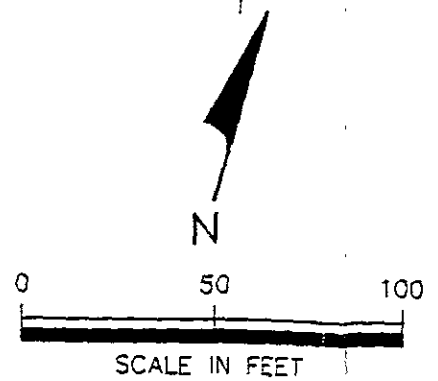
- Current ENVIRON Project
- Other Projects
- EXPLANATION**
- Boring Location
 - Boring with Ground Water Grab Sample Location
 - ⊕ Monitoring Well Location
 - ▲ Cone Penetrometer Testing and Ground Water Grab Sample Location
 - 10—10 Estimated Isoconcentration Contour of Totals VOCs in ground water (µg/L)
 - ND No Halogenated VOCs Detected
 - xx/xx Primary sample result/duplicate sample result
 - * Suspected False Positive Result

Notes:

- 1) All concentrations are in micrograms per liter (µg/L).
- 2) Only detected VOCs are shown.
- 3) Shallow ground water is considered less than approximately 25-30 feet deep.
- 4) Comparison of ground water grab sample results to wells should be made with care, as grab samples typically overestimate concentrations as compared to wells.
- 5) The following abbreviations are used:
 TCE = Trichloroethene
 1,2-DCE(total) = cis-1,2-Dichloroethene + trans-1,2-Dichloroethene
 1,1-DCE = 1,1-Dichloroethene
 CB = Chlorobenzene
 VC = Vinyl Chloride
 MC = Methylene Chloride

References:

1. Weiss Associates, 1994. (Pepsi Co. wells and soil borings are identified with prefix (P)).
2. Enviropro, Inc. 1994 (Borings G1 through G26).
3. ENVIRON, 1993 (Borings B15-1 through B15-5).



ENVIRON

5820 Shellmound Street, Suite 700, Emeryville, California 94608

Halogenated VOCs in Shallow Ground Water
Standard Brands Paint
Emeryville, California

DATE 7/31/95	CONTRACT NUMBER 03-4603D	FIGURE 11
DRAFTER JRK	APPROVED:	REVISED:

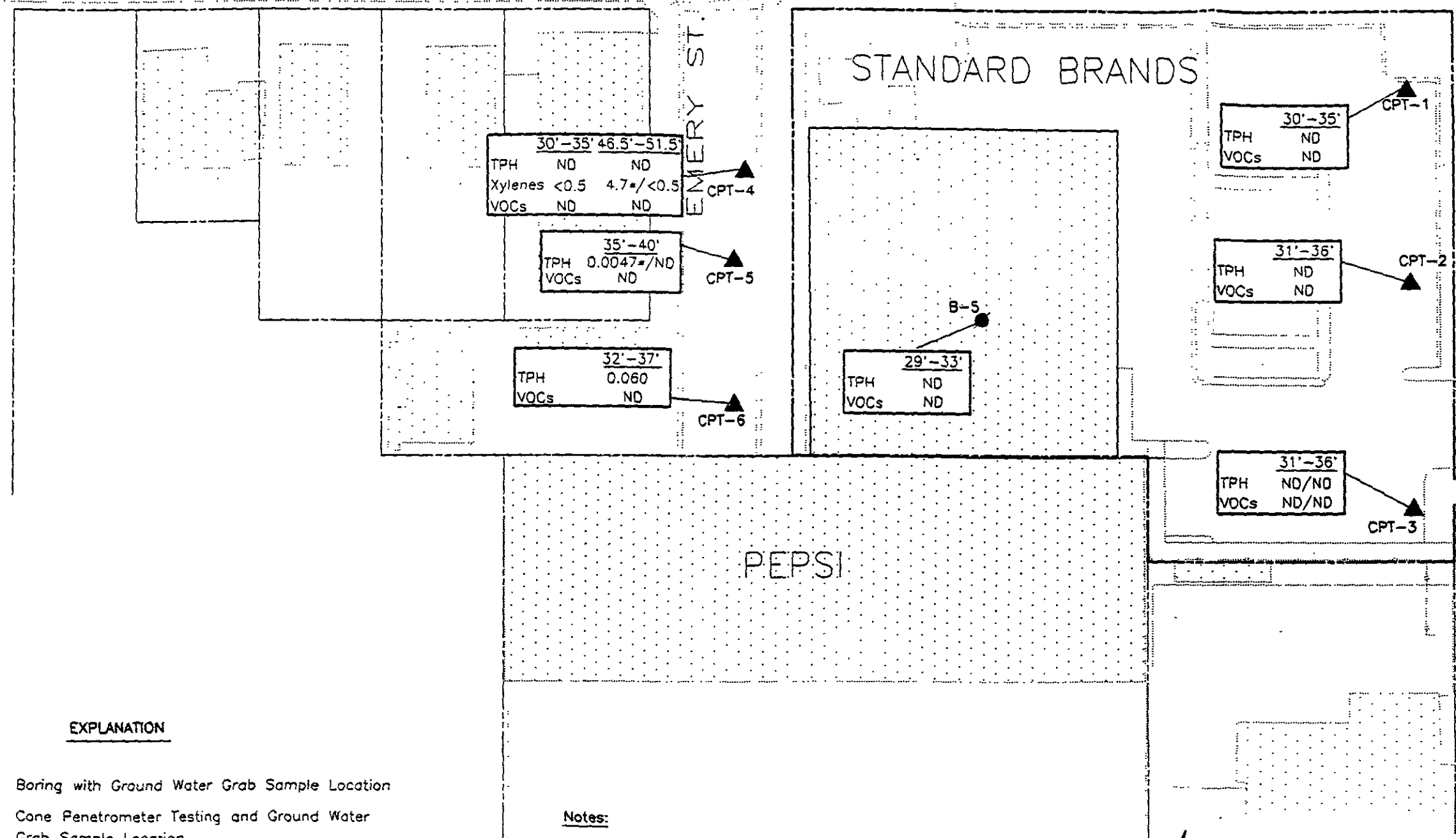
WATTS ST.

45th STREET

EMERY ST.

STANDARD BRANDS

SAN PABLO AVENUE

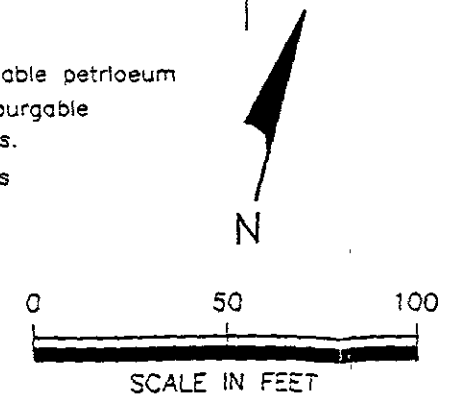


EXPLANATION

- Boring with Ground Water Grab Sample Location
- ▲ Cone Penetrometer Testing and Ground Water Grab Sample Location
- ND None Detected
- * Suspected False Positive Result
- xx/xx Primary and Duplicate Sample Results

Notes:

- 1) Units are in milligrams per liter (mg/L)
- 2) TPH concentrations shown are the sum of available petroleum hydrocarbon results at that location, including all purgable and extractable hydrocarbons, and BTEX compounds.
- 3) VOCs = Halogenated Volatile Organic Compounds



ENVIRON

5820 Shellmound Street, Suite 700, Emeryville, California 94608

Chemical Testing Summary for
Deeper Ground Water
Standard Brands Site
Emeryville, California

01-103480-001-00000000

DATE 8/17/95	CONTRACT NUMBER 03-4603D	FIGURE 12
DRAFTER JRK	APPROVED:	REVISED:

**TABLE 2 — CHEMICAL TEST RESULTS
FOR SOIL SAMPLES**
Remedial Investigation
Standard Brands, Emeryville, California

	Boring:	B-1	B-2	B-3	B-4	B-4	B-4	B-4	B-5	B-5
	Depth Interval:	10.5-11 ft	6.0-6.5 ft	6.0-6.5 ft	8.0-8.5 ft	8.5-9.0 ft	9.5-10.0 ft	15.0-15.5 ft	5.5-6.0 ft	18.5-19.0 ft
	Date Collected:	5/16/95	5/17/95	5/17/95	5/15/95	5/15/95	5/15/95	5/15/95	5/15/95	5/15/95
TOTAL EXTRACTABLE HYDROCARBONS (TEH)										
Kerosene	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 20	< 5.0
Diesel	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 20	< 5.0
Motor Oil	mg/kg	< 10	< 10	< 10	< 10	< 10	17	< 10	< 200	< 50
Stoddard Solvent or <u>Mineral Spirits</u> (Thinner)	mg/kg	ND	ND	ND	ND	ND	1.3	18	300	120
Unidentified	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL VOLATILE HYDROCARBONS (TVH)										
Volatile Hydrocarbons <i>PH as gas</i>	mg/kg	< 1.0	< 1.0	< 1.0 (1)	< 1.0	< 1.0	< 1.0	< 20	< 500	< 20
Benzene	mg/kg	< 0.005	< 0.005	< 0.005 (1)	< 0.005	< 0.005	< 0.005	< 0.1	< 2.5	< 0.1
Toluene	mg/kg	< 0.005	< 0.005	< 0.005 (1)	< 0.005	< 0.005	< 0.005	< 0.1	< 2.5	< 0.1
Ethyl Benzene	mg/kg	< 0.005	< 0.005	< 0.005 (1)	< 0.005	< 0.005	< 0.005	0.2	< 2.5	< 0.1
Total Xylenes	mg/kg	< 0.005	< 0.005	< 0.005 (1)	< 0.005	< 0.005	0.0095	1.0	5.0	0.070
TPH (TEH + TVH)	mg/kg	ND	ND	ND	ND	ND	18	19	300	120
HALOGENATED VOC's										
Trichloroethene	mg/kg	< 0.005	< 0.005	< 0.005	< 0.005	0.015	< 0.005	< 0.005	< 0.005	< 0.005
No other halogenated VOCs were detected.										

"< xx" indicates analyte was not detected above a reporting limit of xx.

"mg/kg" indicates milligrams per kilogram.

"--" indicates not tested for this analyte.

"ND" indicates not detected

"yes" indicates compounds identified by Friedman and Bruya but not quantified.

(1) Results are qualified because tests were run one day past hold time.

(2) Friedman and Bruya identified these hydrocarbons as motor oil or weathered Bunker C oil.

**TABLE 2 — CHEMICAL TEST RESULTS
FOR SOIL SAMPLES**

Remedial Investigation

Standard Brands, Emeryville, California

	Boring:	B-5	B-5	B-6	B-6	B-6	B-6	B-7	B-8
	Depth Interval:	24.5-25.0 ft	32.5-33.0 ft	6.0-6.5 ft	9.5-10.0 ft	13.5-14.0 ft	20.5-21.0 ft	9.0-9.5 ft	9.0-9.5 ft
	Date Collected:	5/15/95	5/15/95	5/15/95	5/15/95	5/15/95	5/15/95	5/15/95	5/15/95
TOTAL EXTRACTABLE HYDROCARBONS (TEH)									
Kerosene	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0
Diesel	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	520	< 1.0
Motor Oil	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 500	< 10
Stoddard Solvent or Mineral Spirits (Thinner)	mg/kg	8.3	ND	34	17	27	ND	680	ND
Unidentified	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL VOLATILE HYDROCARBONS (TVH)									
Volatile Hydrocarbons	mg/kg	< 20	< 1.0	< 100	< 4.0	< 200	< 1.0	< 1,000	< 1.0
Benzene	mg/kg	< 0.1	< 0.005	< 0.5	< 0.020	< 1.0	< 0.005	< 5.0	< 0.005
Toluene	mg/kg	< 0.1	< 0.005	< 0.5	< 0.020	< 1.0	< 0.005	< 5.0	< 0.005
Ethyl Benzene	mg/kg	< 0.1	< 0.005	< 0.5	< 0.020	< 1.0	< 0.005	5.4	< 0.005
Total Xylenes	mg/kg	0.14	< 0.005	1.2	0.081	2.1	< 0.005	35	< 0.005
TPH (TEH + TVH)	mg/kg	8	ND	35	17	29	ND	1240	ND
HALOGENATED VOCs									
Trichloroethene	mg/kg	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
No other halogenated VOC's were detected.									

"< xx" indicates analyte was not detected above a reporting limit of xx.

"mg/kg" indicates milligrams per kilogram.

"-" indicates not tested for this analyte.

"ND" indicates not detected.

"yes" indicates compounds identified by Friedman and Bruya but not quantified.

(1) Results are qualified because tests were run one day past hold time.

(2) Friedman and Bruya identified these hydrocarbons as motor oil or weathered Bunker C oil.

**TABLE 2 — CHEMICAL TEST RESULTS
FOR SOIL SAMPLES**
Remedial Investigation
Standard Brands, Emeryville, California

Boring:	B-8	B-9	B-9	B-10	B-10	B-10	B-11	B-11	
Depth Interval:	18.0-18.5 ft	9.5-10.0 ft	18.0-18.5 ft	2.6-3.0 ft	11.0-11.5 ft	11.5-12.0 ft	4.5-5.0 ft	10.5-11.0 ft	
Date Collected:	5/16/95	5/15/95	5/15/95	5/16/95	5/16/95	5/16/95	5/17/95	5/18/95	
TOTAL EXTRACTABLE HYDROCARBONS (TEH)									
Kerosene	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	--
Diesel	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	yes
Motor Oil	mg/kg	< 10	< 10	< 10	180 (2)	yes	yes	< 10	--
Stoddard Solvent or Mineral Spirits (Thinner)	mg/kg	ND	ND	ND	ND	--	--	ND	yes
Unidentified	mg/kg	ND	ND	ND	2.9	--	--	ND	--
TOTAL VOLATILE HYDROCARBONS (TVH)									
Volatile Hydrocarbons	mg/kg	< 1.0	< 1.0	< 1.0	--	--	--	< 1.0 (1)	--
Benzene	mg/kg	< 0.005	< 0.005	< 0.005	--	--	--	< 0.005 (1)	--
Toluene	mg/kg	< 0.005	< 0.005	< 0.005	--	--	--	< 0.005 (1)	--
Ethyl Benzene	mg/kg	< 0.005	< 0.005	< 0.005	--	--	--	< 0.005 (1)	--
Total Xylenes	mg/kg	< 0.005	< 0.005	< 0.005	--	--	--	< 0.005 (1)	--
TPH (TEH + TVH)	mg/kg	ND	ND	ND	183	yes	yes	ND	yes
HALOGENATED VOCs									
Trichloroethene	mg/kg	< 0.005	< 0.005	< 0.005	--	--	--	< 0.005	--
No other halogenated VOCs were detected.									

"< xx" indicates analyte was not detected above a reporting limit of xx.

"mg/kg" indicates milligrams per kilogram

"--" indicates not tested for this analyte.

"ND" indicates not detected.

"yes" indicates compounds identified by Friedman and Bruya but not quantified.

(1) Results are qualified because tests were run one day past hold time.

(2) Friedman and Bruya identified these hydrocarbons as motor oil or weathered Bunker C oil.

**TABLE 3 — CHEMICAL TEST RESULTS
FOR GROUND WATER GRAB SAMPLES**

Remedial Investigation

Standard Brands, Emeryville, California

	Boring:	B-1	B-2	B-3	B-5	B-8	B-9	B-11	B-11D	CPT-1	CPT-2
	Depth Interval:	5-15 ft	3-13 ft	1-16 ft	29-33 ft	21-31 ft	21-31 ft	3-13 ft	3-13 ft	30-35 ft	31-36 ft
	Date Collected:	5/16/95	5/17/95	5/17/95	5/15/95	5/16/95	5/15/95	5/17/95	5/17/95	5/17/95	5/17/95
TOTAL EXTRACTABLE HYDROCARBONS (TEH)											
Kerosene	mg/L.	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	--	< 0.05	< 0.05
Diesel	mg/L.	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	--	< 0.05	< 0.05
Motor Oil	mg/L.	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	--	< 0.5	< 0.5
Stoddard Solvent or Mineral Spirits (Thinner)	mg/L.	ND	ND	ND	ND	ND	ND	10	--	ND	ND
Unidentified	mg/L.	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
TOTAL VOLATILE HYDROCARBONS (TVH)											
Volatile Hydrocarbons	mg/L.	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzene	µg/L.	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	µg/L.	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethyl Benzene	µg/L.	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.0	< 2.0	< 0.5	< 0.5
Total Xylenes	µg/L.	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 15	< 15	< 0.5	< 0.5
TPH (TEH + TVH)	mg/L.	ND	ND	ND	ND	ND	ND	10	ND	ND	ND
HALOGENATED VOC's											
Cis-1,2-Dichloroethene	µg/L.	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	µg/L.	0.9	< 0.5	< 0.5	< 0.5	0.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
No other halogenated VOCs were detected.											

"< xx" indicates analyte was not detected above a reporting limit of xx.

"mg/L." indicates milligrams per liter.

"µg/L." indicates micrograms per liter.

"--" indicates not tested for this analyte.

"ND" indicates not detected.

**TABLE 3 — CHEMICAL TEST RESULTS
FOR GROUND WATER GRAB SAMPLES**

Remedial Investigation
Standard Brands, Emeryville, California

Boring:	CPT-3	CPT-3D	CPT-4	CPT-4	CPT-4R	CPT-5	CPT-5	CPT-6	CPT-6	
Depth Interval:	31-36 ft	31-36 ft	30-35 ft	46.5-51.5 ft	46.5-49.5 ft	23-28 ft	35-40 ft	15.5-17.5 ft	18-23 ft	
Date Collected:	5/17/95	5/17/95	5/16/95	5/17/95	6/9/95	5/16/95	5/16/95	5/16/95	5/16/95	
TOTAL EXTRACTABLE HYDROCARBONS (TEH)										
Kerosene	mg/L	< 0.05	< 0.05	--	< 0.05	--	< 0.05	< 0.05	< 0.05	< 0.05
Diesel	mg/L	< 0.05	< 0.05	--	< 0.05	--	< 0.05	< 0.05	< 0.05	< 0.05
Motor Oil	mg/L	< 0.5	< 0.5	--	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5
Stoddard Solvent or Mineral Spirits (Thinner)	mg/L	ND	ND	--	ND	--	ND	ND	ND	ND
Unidentified	mg/L	ND	ND	--	ND	--	ND	ND	ND	ND
TOTAL VOLATILE HYDROCARBONS (TVH)										
Volatile Hydrocarbons	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethyl Benzene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Xylenes	µg/L	< 0.5	< 0.5	< 0.5	4.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TPH (TEH + TVH)	mg/L	ND	ND	ND	0.0047	ND	ND	ND	ND	ND
HALOGENATED VOC's										
Cis-1,2-Dichloroethene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	--	1.6	< 0.5	< 0.5	< 0.5
Trichloroethene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5
No other halogenated VOCs were detected.										

"< xx" indicates analyte was not detected above a reporting limit of xx.

"mg/L." indicates milligrams per liter.

"µg/L." indicates micrograms per liter.

"--" indicates not tested for this analyte.

"ND" indicates not detected

**TABLE 3 — CHEMICAL TEST RESULTS
FOR GROUND WATER GRAB SAMPLES**
Remedial Investigation
Standard Brands, Emeryville, California

Boring:	CPT-6	CPT-8	SB051695TB	SB051795TB	SB051895TB	SB060995TB
Depth Interval:	32-37 ft	8-13 ft	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Date Collected:	5/16/95	5/18/95	5/16/95	5/17/95	5/18/95	6/9/95
TOTAL EXTRACTABLE HYDROCARBONS (TEH)						
Kerosene	mg/L	< 0.05	< 0.05	--	--	--
Diesel	mg/L	< 0.05	< 0.05	--	--	--
Motor Oil	mg/L	< 0.5	< 0.5	--	--	--
Stoddard Solvent or Mineral Spirits (Thinner)	mg/L	ND	2.5	--	--	--
Unidentified	mg/L	0.06	1.4	--	--	--
TOTAL VOLATILE HYDROCARBONS (TVH)						
Volatile Hydrocarbons	mg/L	< 0.05	4.2	< 0.05	< 0.05	< 0.05
Benzene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	µg/L	< 0.5	1.1	< 0.5	< 0.5	< 0.5
Ethyl Benzene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Xylenes	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TPH (TEH + TVH)	mg/L	0.06	8.1			
HALOGENATED VOCs						
Cis-1,2-Dichloroethene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	--
Trichloroethene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	--
No other halogenated VOCs were detected.						

"< xx" indicates analyte was not detected above a reporting limit of xx.

"mg/L." indicates milligrams per liter.

"µg/L." indicates micrograms per liter.

"--" indicates not tested for this analyte.

"ND" indicates not detected.

**TABLE 4 — CHEMICAL TEST RESULTS
FOR WATER SAMPLES FROM MONITORING WELLS**

**Remedial Investigation
Standard Brands, Emeryville, California**

Monitoring Well:	MW1	MW2	MW3	MW3 (Dup)	MW4	MW5	MWCB 061595	
Screen Interval:	7-17 ft	5-15 ft	5-15 ft	5-15 ft	5-15 ft	5-15 ft	Trip Blank	
Date Collected:	6/15/95	6/15/95	6/15/95	6/15/95	6/15/95	6/15/95	6/15/95	
TOTAL EXTRACTABLE HYDROCARBONS (TEH)								
Kerosene	mg/L	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.05	--
Diesel	mg/L	< 0.05	< 0.05	0.8	0.44	< 0.05	< 0.05	--
Motor Oil	mg/L	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5	< 0.5	--
Stoddard Solvent or Mineral Spirits (Thinner)	mg/L	ND	ND	3.8	2.57	ND	ND	--
TOTAL VOLATILE HYDROCARBONS (TVH)								
Volatile Hydrocarbons	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	µg/L	< 0.5	< 0.5	< 0.5	1.7	< 0.5	< 0.5	< 0.5
Ethyl Benzene	µg/L	5.1	< 0.5	0.8	1.2	< 0.5	< 0.5	< 0.5
Total Xylenes	µg/L	22	< 0.5	3.8	6.4	< 0.5	< 0.5	< 0.5
TPH (TEH + TVH)	mg/L	0.027	ND	4.6	3.0	ND	ND	
HALOGENATED VOC's								
Trans-1,2-Dichloroethene	µg/L	< 0.5	< 0.5	0.9	0.7	< 0.5	< 0.5	< 0.5
Cis-1,2-Dichloroethene	µg/L	< 0.5	< 0.5	1.9	1.3	< 0.5	< 0.5	< 0.5
Trichloroethene	µg/L	< 0.5	< 0.5	1.7	0.9	< 0.5	< 0.5	< 0.5
No other halogenated VOC's were detected.								

"< xx" indicates analyte was not detected at reporting limit of xx.

"mg/L." indicates milligrams per liter."

"µg/L." indicates micrograms per liter."

"--" indicates not tested

"ND" indicates not detected

APPENDIX E
BORING LOGS

McLAREN/HART

1997

0617TCL.RPT

SOIL DRILLING LOG

SB/MW #: MH-1
 # D- 21608
 Page 1 of 1
 Geologist: N. King



Nathan King
 SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 5/22/97 TOTAL DEPTH 16.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 11 - 16'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ =First Water ∇ =Static Water (6/9/97)
 MEMO Free product observed in groundwater.

Depth Below Surface (ft.)	Sampler Interval/Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5		45882	0.0	0 - 3" ASPHALT 3" - 2.5' FILL			
2.5 - 5.0		45883	0.0	2.5 - 9' SILTY CLAY (0,15,45,40); dark olive brown (2.5Y3/3); medium plasticity; slightly stiff; fine grained sand; slightly moist.	CL		
5.0 - 7.5		45884	0.0				2" Diameter Borehole
7.5 - 10.0		45885	0.0	9 - 11' SILTY CLAY with SAND (0,25,45,30); dark gray (10YR4/1); medium plasticity; slightly stiff to stiff; fine to coarse grained sand; slightly moist. Slight petroleum odor at 11'	CL		
10.0 - 12.5							
12.5 - 15.0		45886 45887 519390-3 518909	0.0	14 - 16' SANDY CLAY (0,30,40,30); dark yellowish brown (10YR4/4); medium plasticity; slightly stiff to stiff; fine to coarse grained sand; slightly moist. Saturated at 16'. Product observed in soil at 15.5 - 16'. Free product observed in groundwater.	CL		16.0

SDDBR611897 AUGNAPS



SIGNATURE OF FIELD SUPERVISOR *[Signature]*
 Principal Geoscientist
 TITLE

SOIL DRILLING LOG

SB/MW #: MH-2
 # D- 21609
 Page 1 of 1
 Geologist: N. King



Nathan King
 SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 5/22/97 TOTAL DEPTH 16.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 9.5 - 14.5'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ = First Water ≡ = Static Water (6/9/97)
 MEMO

Depth Below Surface (ft.)	Sampler Interval/ Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 3"				ASPHALT			
3" - 1.5'				FILL			
2.5					CL		
5.0		45888	0.0	4 - 6' SILTY CLAY with SAND (0,20,45,35); very dark grayish brown (10YR3/2); medium plasticity; slightly stiff; fine to medium grained sand; slightly moist.			
7.5							2" Diameter Borehole
10.0		45889	0.0	9 - 9.5' SILTY SAND (0,60,40,0); very dark grayish brown (10YR3/2); loose; fine to medium grained sand; moderately graded; slightly moist to moist. Slight petroleum odor.	SM		
12.5				9.5 - 11' SILTY CLAY with SAND (0,20,45,35); gray (10BG4/1); medium plasticity; slightly stiff to stiff; fine grained sand; moist. Slight petroleum odor.	CL		
15.0		45890	0.0	@ 14' Dark yellowish brown (10YR4/6) with very dark grayish brown (10YR3/2) mottles.			
		519395-9		Saturated at 16'			16.0

Nathan King
 SIGNATURE OF FIELD SUPERVISOR
 Principal Geoscientist
 TITLE



SOIL DRILLING LOG

SB/MW #: MH-3

D- 21610

Page 1 of 1

Geologist: N. King

Nathan King
SIGNATURE OF GEOLOGIST



PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 5/22/97 TOTAL DEPTH 21.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 16 - 21'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ =First Water ▽ =Static Water
 MEMO

Depth Below Surface (ft.)	Sampler Interval/Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5				0 - 5' IVY	RB		2" Diameter Borehole
2.5 - 5.0		45891	0.0	4 - 6' SANDY CLAY (0,30,45,25); very dark grayish brown (10YR3/2); medium plasticity; slightly stiff; fine to medium grained sand; slightly moist.	CL		
5.0 - 9.0		45892	0.0	9 - 11' SILTY CLAY (0,15,45,40); dark gray (10YR4/1); medium plasticity; slightly stiff to stiff; fine grained sand; slightly moist to moist.	CL		
9.0 - 15.0		45893	1.2	Dark gray (2.5YR4/1) with light olive brown (2.5YR4/1) mottles.			
15.0 - 21.0		45894	0.0				21.0



SIGNATURE OF FIELD SUPERVISOR AND REVIEWER
 Principal Geologist
 TITLE

SOIL DRILLING LOG

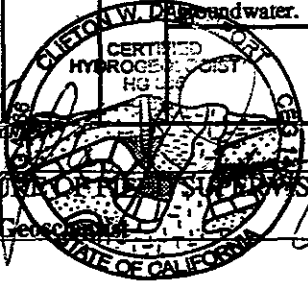
SB/MW #: MH-4
 # D- 21605
 Page 1 of 1
 Geologist: N. King



Nathan King
 SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 5/21/97 TOTAL DEPTH 23.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 15 - 20'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ =First Water ▽ =Static Water (6/9/97)
 MEMO Free product observed in groundwater.

Depth Below Surface (ft.)	Sampler Interval/Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5				0 - .5' CONCRETE 0.5 - 1.5' (FILL)	FL		
2.5 - 4.5					CL		
4.5 - 9.0		45865	0.0	4 - 6' SILTY CLAY (FILL) (0,15,45,40); dark olive brown (2.5Y3/3); medium plasticity; slightly stiff to stiff; fine grained sand; slightly moist.			2" Diameter Borehole
9.0 - 14.0		45866	0.0	9 - 11' SILTY CLAY (0,15,40,45); dark olive brown (2.5Y3/3); high plasticity; stiff; fine grained sand with sub rounded to angular coarse grained sand; slightly moist	CH		
14.0 - 17.5		45867	0.0	14 - 16' SILTY CLAY (0,10,45,45); olive brown (2.5Y4/4) with gray (2.5Y5/1) mottles; high plasticity; stiff; fine to medium grained sand; slightly moist. Free product observed on rod at 14'.	CH		
17.5 - 20.0		45868	153	19 - 21' SILTY CLAY (0,10,45,45); olive brown (2.5Y4/4); medium plasticity; slightly stiff to stiff; fine to coarse grained sand; moist to very moist. Petroleum odor present.	CL		
20.0 - 23.0		518901-06 518907-08		23' Groundwater encountered. Free product observed in groundwater.			23.0



Nathan King
 SIGNATURE OF FIELD SUPERVISOR AND REVIEWER
 Principal Geologist
 TITLE

SOIL DRILLING LOG

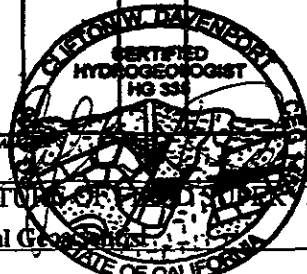
SB/MW #: **MH-5**
 # D- **21606**
 Page 1 of 1
 Geologist: **N. King**



Nathan King
 SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 5/22/97 TOTAL DEPTH 21.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 12.8 - 17.8'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ☑ =First Water ☑ =Static Water (6/9/97)
 MEMO

Depth Below Surface (ft.)	Sampler Interval/Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5		45869	0.0	0 - 0.5' CONCRETE 0.5 - 2.5' FILL	FL	[Cross-hatched pattern]	
2.5 - 4.5		45870	0.0	4 - 6' SILTY CLAY with SAND (0,20,45,35); dark olive brown (2.5Y3/3); medium plasticity; slightly stiff; fine grained sand; slightly moist.	CL	[Diagonal lines pattern]	
4.5 - 7.5		45871	57.8	7 - 9' SILTY CLAY (0,15,40,45); very dark grayish brown (2.5Y3/2); medium to high plasticity; slightly stiff to stiff; fine grained sand; slightly moist.	CL	[Diagonal lines pattern]	2" Diameter Borehole
7.5 - 9.5		45872	3.3	Slight petroleum odor at 9'. 9 - 11' SILTY CLAY (0,15,40,45); gray (10BG4/1); medium to high plasticity; stiff; fine to medium grained sand; slightly moist.	CL	[Diagonal lines pattern]	
9.5 - 14.5		45873 45874	10.8	14 - 16' SILTY CLAY with SAND (0,20,45,35); gray (10BG5/1); medium plasticity; slightly stiff to stiff; fine to medium grained sand; slightly moist to moist. Slight petroleum odor.	CL ML	[Diagonal lines pattern]	
14.5 - 21.0		45875 521330	0.0	19 - 21' SILTY CLAY with SAND (0,25,45,30); olive brown (2.5Y4/4) with gray (2.5Y5/1) mottles; medium plasticity; slightly stiff; fine grained sand; slightly moist to moist.		[Diagonal lines pattern]	21.0



 SIGNATURE OF PRINCIPAL SUPERVISOR AND REVIEWER
 Principal Geologist
 TITLE

SOIL DRILLING LOG

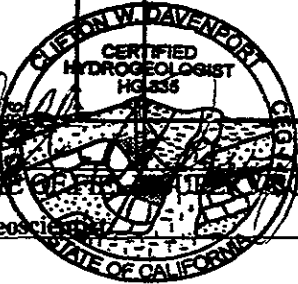
SB/MW #: MH-6
 # D- 21604
 Page 1 of 1
 Geologist: N. King



Nathan King
 SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 5/21/97 TOTAL DEPTH 21.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 15.8 - 20.8'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ =First Water ∇ =Static Water (6/9/97)
 MEMO

Depth Below Surface (ft.)	Sampler Interval/Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5				0 - 5' CONCRETE 0.5 - 2.5' FILL	FL		2" Diameter Borehole
2.5 - 5.0		45861	533	4 - 6' SILTY CLAY (0.15,45,40); gray (10B3/1); medium plasticity; slightly stiff to stiff; fine grained sand; slightly moist. Petroleum odor present.	CL		
5.0 - 9.0		45862	392	9 - 11' SILTY CLAY (0.10,45,45); gray (10B3/1); medium plasticity; slightly stiff to stiff; fine grained sand; slightly moist. Petroleum odor present.	CL		
9.0 - 15.0		45863	53	Mild petroleum odor.			
15.0 - 20.0		45864 519377-81	51.7	19 - 19.5' SILTY SAND (0.50,40,10); gray (10B3/1); loose; fine to medium grained sand; moderately graded; moist. 19.5 - 21' SILTY CLAY (0.10,45,45); gray (10B3/1); medium plasticity; slightly stiff to stiff; fine to coarse grained sand; moist to very moist. Saturated at 20.5'. Strong petroleum odor in groundwater.	SM CL		
20.0 - 21.0							21.0



SIGNATURE OF SUPERVISOR AND REVIEWER
 Principal Geologist
 TITLE

SOIL DRILLING LOG

SB/MW #: MH-7
 # D- 21601
 Page 1 of 1
 Geologist: N. King



Nathan King
 SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 5/21/97 TOTAL DEPTH 28.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 15 - 20'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ = First Water
 MEMO

Depth Below Surface (ft.)	Sampler Interval/Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 0.5				0 - .5' CONCRETE	FL		2" Diameter Borehole
0.5 - 1.5				0.5 - 1.5' FILL			
1.5 - 4.7		45856	4.7	1.5 - 4' SILTY CLAY (0,10,40,50); very dark brown (10YR2/1); high plasticity; stiff; fine grained sand; slightly moist. Petroleum odor present.	CH		
4.7 - 376		45856	376	4 - 6' SILTY CLAY with SAND (0,20,35,45); very dark gray (5Y3/1); medium to high plasticity; slightly stiff; fine grained sand; slightly moist. Petroleum odor present.	CL		
376 - 45857		45857	131.6	6 - 8' SILTY CLAY with SAND (10,15,30,45); very dark gray (5Y3/1); high plasticity; stiff; fine grained sand with fine angular gravel; slightly moist. Petroleum odor present.	CH		
45857 - 57.2		45857	57.2	8 - 8.5' SILTY SAND (10,70,20,0); loose; fine to coarse grained sand, fine sub angular to angular gravel; poorly graded; slightly moist. Petroleum odor present.	SM CH		
57.2 - 232.5		45858	232.5	8.5 - 9' SILTY CLAY with SAND (10,10,30,50); dark gray (5Y4/1); high plasticity; stiff; fine grained sand with angular gravel; slightly moist.	CL		
232.5 - 33.3		45858	33.3	10 - 14.5' SILTY CLAY (0,10,45,45); gray (10GY4/1); medium to high plasticity; slightly stiff to stiff; fine grained sand; slightly moist. Slight petroleum odor.	SM ML		
33.3 - 45859		45859	8.0	14.5 - 16' SANDY SILT (5,40,40,15); gray (10GY4/1); low plasticity; soft; fine to coarse sub angular to angular grained sand, fine grained gravel; slightly moist.	CL		
45859 - 3.3		45859	3.3	16 - 25.5' SILTY CLAY (5,10,45,40); dark yellowish brown (10YR4/6); medium plasticity; slightly stiff to stiff; fine grained sand; slightly moist. Increasing gravel content with depth.			
3.3 - 28.0		45860	1.5	25.5 - 28' SILTY SAND (0,60,30,10); dark yellowish brown (10YR4/6); loose; fine to coarse grained sand; moderately graded; very moist.	SM		
28.0 - 28.0							

SIGNATURE OF [Signature] SUPERVISOR AND REVIEWER
 Principal Geologist
 TITLE

SOIL DRILLING LOG

SB/MW #: MH-8
 # D- 21607
 Page 1 of 1
 Geologist: N. King



N. King
 SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 5/22/97 TOTAL DEPTH 16.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 9.2 - 14.2'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ = First Water ∇ = Static Water (6/9/97)
 MEMO _____

Depth Below Surface (ft.)	Sampler Interval/ Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5	□	45876	5.3	0 - .5' CONCRETE 0.5 - 2.5' FILL	FL		2" Diameter Borehole
2.5 - 5.0	□	45877	214	4 - 6' SILT (0,15,50,35); gray (SG3/1); medium plasticity; slightly stiff; fine grained sand; slightly moist. Strong petroleum odor between 4 and 6'.	ML		
5.0 - 7.5	□	45878		7 - 9' SILT (Same as 4 - 6') Petroleum odor present. 7.5 - 7.6' SILTY SAND (Lense) 0,50,40,10); loose; fine to medium grained sand; moderately graded; slightly moist.			
7.5 - 10.0	□	45879	215	9 - 11' SILT (Same as 4 - 6') Petroleum odor present.			
10.0 - 12.5	□	45880	213				
12.5 - 15.0	□	45881 519386-89	141	14 - 16' SILT (Same as 4 - 6') Saturated at 14.5'.			
							16.0

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER
 Principal Geoscientist
 TITLE

SOIL DRILLING LOG

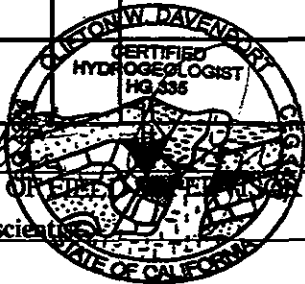
SB/MW #: MH-9
 # D- 21611
 Page 1 of 1
 Geologist: N. King



Nathan King
 SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 5/30/97 TOTAL DEPTH 25.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 13.4 - 18.4'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ =First Water ∇ =Static Water (6/9/97)
 MEMO

Depth Below Surface (ft.)	Sampler Interval/Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
				0 - 3" ASPHALT 3" - 2" FILL	FL		
-2.5				Pushed to 25' and installed temporary casing.			2" Diameter Borehole
-5.0							
-7.5							
-10.0							
-12.5							
-15.0							
-17.5							
-20.0							
-22.5							
-25.0							25.0



[Signature]
 SIGNATURE OF FIELD SUPERVISOR AND REVIEWER
 Principal Geoscientist
 TITLE

SOIL DRILLING LOG

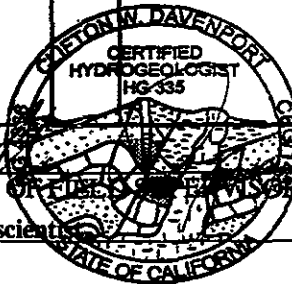
SB/MW #: MH-10
D- 21612
Page 1 of 1
Geologist: N. King



N. King
SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
TOC ELEVATION NA (MSL) DATE(S) 5/30/97 TOTAL DEPTH 16.0'
MONITORING DEVICE OVM SCREENED INTERVAL 8 - 13'
SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water ▽ =Static Water (6/9/97)
MEMO _____

Depth Below Surface (ft.)	Sampler Interval/ Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5				0 - 5' CONCRETE 0.5 - 2' FILL	FL		
2.5 - 5.0		46151	282	4 - 6' SILTY CLAY with SAND (0,20,35,45); gray (10GY2.5/1); medium plasticity; slightly stiff to stiff; fine grained sand; slightly moist. Strong petroleum odor.	CL		
5.0 - 10.0		46152 46153	280	9 - 11' SANDY CLAY (0,30,45,25); gray (5G3/1); low plasticity; slightly stiff; fine grained sand; moist. Strong petroleum odor.	CL ML		
10.0 - 15.0		518351-5	389	14 - 16' SILTY SAND (0,70,30,0); gray (5G3/1); loose; fine grained sand; poorly graded; saturated. Strong petroleum odor present.	SP		
15.0 - 16.0							2" Diameter Borehole



SIGNATURE OF FIELD SUPERVISOR AND REVIEWER
Clayton W. Davenport
Principal Geoscientist
TITLE

SOIL DRILLING LOG

SB/MW #: MH-11
 # D- 21613
 Page 1 of 1
 Geologist: N. King



Nathan King
 SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 5/30/97 TOTAL DEPTH 16.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 8 - 13'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ =First Water ∇ =Static Water (6/9/97)
 MEMO

Depth Below Surface (ft.)	Sampler Interval/ Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5				0 - 5' CONCRETE 0.5 - 2' FILL	FL		 2" Diameter Borehole
2.5 - 14.0			Push to 14'				
14.0 - 16.0			0.0	14 - 16' SILTY CLAY with SAND (0,20,45,35); gray (10GY4/1); medium plasticity; slightly stiff; fine to medium grained sand; moist.	CL		
							16.0

[Signature]
 SIGNATURE OF FIELD SUPERVISOR
 Principal Geoscientist
 TITLE



SOIL DRILLING LOG

SB/MW #: MH-12

D- 21614

Page 1 of 1

Geologist: N. King



Nathan King
SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 5/30/97 TOTAL DEPTH 18.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 14 - 19'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ = First Water ∇ = Static Water (6/9/97)
 MEMO _____

Depth Below Surface (ft.)	Sampler Interval/Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/Well Construction Details
0 - 2.5				0 - .5' CONCRETE 0.5 - 2' FILL	FL		
2.5 - 16.0				Push to 16'			
16.0 - 17.5			37	16 - 18' SILTY SAND (0,60,30,10); olive brown (2.5Y4/3); loose; fine to medium grained sand; moderately graded; very moist to saturated. Petroleum odor present in groundwater.	SM		2" Diameter Borehole
17.5 - 18.0							



SIGNATURE AND REVIEWER

 Principal Geologist
 TITLE

SOIL DRILLING LOG

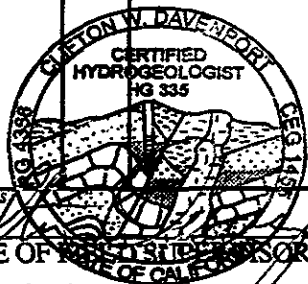
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 # D- 21615
 Page 1 of 1
 Geologist: N. King

 SIGNATURE OF GEOLOGIST



PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 6/2/97 TOTAL DEPTH 20.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 9.5 - 14.5'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ = First Water
 MEMO _____

Depth Below Surface (ft.)	Sampler Interval/ Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5				0 - 5' CONCRETE 0.5 - 2' FILL	FL		2" Diameter Borehole
2.5 - 11.0			Push to 11'				
11.0 - 12.5			0.0	11 - 13' SILTY CLAY with SAND (0,25,35,40); olive (5Y5/3); medium to high plasticity; slightly stiff to stiff; fine grained sand; slightly moist.	CL		
12.5 - 17.5			0.0	15 - 17' SANDY CLAY (0,30,30,40); dark yellowish brown (10YR4/4); medium to high plasticity; stiff; fine to medium grained sand; slightly moist. Saturated at 17' Push to 20'	CL		
17.5 - 20.0							20.0



 SIGNATURE OF PROJECT SUPERVISOR AND REVIEWER
 Principal Geoscientist
 TITLE

SOIL DRILLING LOG

SB/MW #: MH-13
 # D- 21616
 Page 1 of 1
 Geologist: N. King
Nathan King
 SIGNATURE OF GEOLOGIST



PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 6/2/97 TOTAL DEPTH 20.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 12.5 - 17.5'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ =First Water ∇ =Static Water (6/9/97)
 MEMO _____

Depth Below Surface (ft.)	Sampler Interval/ Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5				0 - .5' CONCRETE 0.5 - 2' FILL	FL		2" Diameter Borehole
2.5 - 4.5		46154 46155	194	4 - 6' SANDY CLAY (0,20,40,30); gray (10BG2.5/1); medium plasticity; slightly stiff to stiff; fine grained sand; slightly moist.	CL		
4.5 - 9.5		46156	121	9 - 11' SANDY CLAY (Same as 4 - 6") 9.5' Slight petroleum odor.			
9.5 - 14.0		46157	7	14 - 16' SANDY CLAY (Same as 4 - 6") Gray (5BG4/1); slightly moist to moist. Slight petroleum odor. Push to 20'			
14.0 - 20.0							



SIGNATURE OF [Signature] SUPERVISOR AND REVIEWER
 Principal Geoscientist
 TITLE

SOIL DRILLING LOG

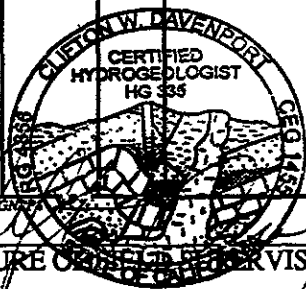
SB/MW #: MB-14
 # D- 21617
 Page 1 of 1
 Geologist: N. King



N. King
 SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 6/2/97 TOTAL DEPTH 16.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 10.5 - 15.5'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ = First Water ∇ = Static Water (6/9/97)
 MEMO _____

Depth Below Surface (ft.)	Sampler Interval/ Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5				0 - .5' CONCRETE 0.5 - 2' FILL	FL		
2.5 - 5.0		46158	1	4 - 6' SILTY SAND with GRAVEL (20,50,20,10); gray (10G2.5/1); loose; fine to coarse grained sand with fine grained gravel; well graded; slightly moist.	SM		 2" Diameter Borehole
5.0 - 9.0		46159 46160	1	9 - 11' SILTY SAND with GRAVEL (Same as 4 - 6')			
9.0 - 14.0		518357-58		14 - 16' SILTY SAND (10,70,20,0); gray (10G2.5/1); loose; fine to coarse grained sand, fine grained gravel; well graded; saturated.	SM		
14.0 - 16.0							16.0



SIGNATURE OF [Signature] SUPERVISOR AND REVIEWER
 Principal Geoscientist
 TITLE

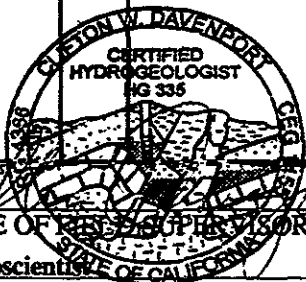
SOIL DRILLING LOG

SB/MW #: MH-15
 # D- 21618
 Page 1 of 1
 Geologist: N. King
Nathan King
 SIGNATURE OF GEOLOGIST



PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 6/2/97 TOTAL DEPTH 12.5'
 MONITORING DEVICE OVM SCREENED INTERVAL 7.5 - 12.5'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EOPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ =First Water ≡ =Static Water (6/9/97)
 MEMO

Depth Below Surface (ft.)	Sampler Interval/Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5				0 - .5' CONCRETE 0.5 - 2' FILL	FL		2" Diameter Borehole
2.5 - 4.5		46161 46162	6	4 - 6' FILL (20,50,20,10); gray (10G2.5/1); loose; fine to coarse grained sand, fine grained gravel; well graded; slightly moist.			
4.5 - 12.5		518356		9 - 11' SILTY SAND (0,80,20,0); dark bluish gray (5B4/1); dense; fine grained sand; poorly graded; saturated. Push to 12.5'	SP SM		



[Signature]
 SIGNATURE OF RES. SUPERVISOR AND REVIEWER
 Principal Geoscientist
 TITLE

SOIL DRILLING LOG

SB/MW #: MH-16
 # D- 21619
 Page 1 of 1
 Geologist: N. King



Nathan King
 SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 6/2/97 TOTAL DEPTH 20.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 10.75 - 15.75'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ = First Water ▽ = Static Water
 MEMO

Depth Below Surface (ft.)	Sampler Interval/Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5				0 - 3" ASPHALT 3" - 2' FILL	FL		2" Diameter Borehole
2.5 - 4.9		46163 46164	4.9	4 - 6' SILTY CLAY with SAND (0,20,45,35); very dark gray (N2.5/1); medium plasticity; slightly stiff; fine grained sand; slightly moist. Petroleum odor present.	CL		
4.9 - 9.0		46165	0.0	9 - 16' SANDY CLAY (0,35,40,25); light olive brown (2.5Y5/3); medium plasticity; slightly stiff to stiff; fine to coarse grained sand; slightly moist. Push to 20'	CL		
9.0 - 15.0		46166	0.0				
15.0 - 20.0							



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 Principal Geoscientist
 TITLE

SOIL DRILLING LOG

SB/MW #: MH-17

D- 21620

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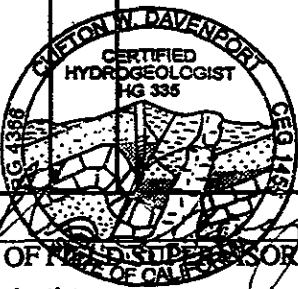
Geologist: N. King

Nathan King
SIGNATURE OF GEOLOGIST



PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 6/2/97 TOTAL DEPTH 12.0'
 MONITORING DEVICE OVM SCREENED INTERVAL NA
 SAMPLING METHOD: Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ = First Water ∇ = Static Water
 MEMO

Depth Below Surface (ft.)	Sampler Interval/Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0				0 - 5' ASPHALT 0.5 - 2' FILL	FL		2" Diameter Borehole
-2.5				Push to 10'			
-5.0							
-7.5							
-10.0	X	46167 46168	0.0	10 - 12' SANDY CLAY (0,20,40,30); light olive brown (2.5Y5/3); medium plasticity; slightly stiff to stiff; fine grained sand; slightly moist.	CL		12.0



Clayton W. Davenport
SIGNATURE OF PROJECT SUPERVISOR AND REVIEWER
Principal Geoscientist
TITLE

SOIL DRILLING LOG

SB/MW #: MH-18

D- 21621

Page 1 of 1

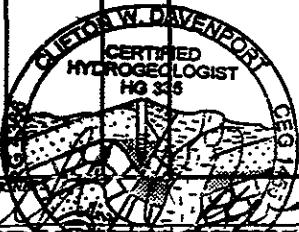
Geologist: N. King

Nathan King
SIGNATURE OF GEOLOGIST



PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 6/2/97 TOTAL DEPTH 20.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 11 - 16'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO =First Water =Static Water
 MEMO _____

Depth Below Surface (ft.)	Sampler Interval/Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
-2.5				0 - 3" ASPHALT 3" - 2" FILL	FL		2" Diameter Borehole
-5.0				Push to 10"			
-10.0		46469	0.0	10 - 12" SILTY CLAY (0,20,45,35); gray (10BG4/1); medium plasticity; slightly stiff; fine to medium grained sand; slightly moist. Push to 20"	CL		
-12.5							
-15.0							
-17.5							
-20.0							20.0



 SIGNATURE OF FIELD SUPERVISOR AND REVIEWER
 Principal Geoscientist
 TITLE

SOIL DRILLING LOG

SB/MW #: MH-19

D- 21622

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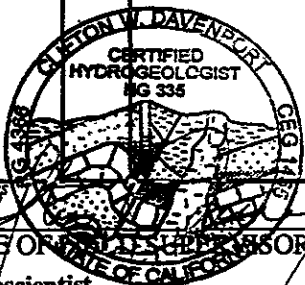
Geologist: N. King

Nathan King
SIGNATURE OF GEOLOGIST



PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 6/2/97 TOTAL DEPTH 21.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 10 - 15'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ = First Water ∇ = Static Water (6/9/97)
 MEMO _____

Depth Below Surface (ft.)	Sampler Interval/ Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5				0 - 3" ASPHALT 3" - 2' FILL	FL		
2.5 - 21.0				Push to 21'			 2" Diameter Borehole
21.0							



[Signature]
SIGNATURE OF STATE SUPERVISOR AND REVIEWER
Principal Geoscientist
TITLE

SOIL DRILLING LOG



SB/MW #: MH-20
D- 21623
Page 1 of 1
Geologist: N. King
N. King
SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
TOC ELEVATION NA (MSL) DATE(S) 6/2/97 TOTAL DEPTH 20.0'
MONITORING DEVICE OVM SCREENED INTERVAL 0 - 5'
SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ = First Water ∇ = Static Water (6/2/97)
MEMO _____

Depth Below Surface (ft.)	Sampler Interval/ Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0				0 - 3" ASPHALT 3" - 2' FILL			
2.5				Push to 20'			
5.0							
7.5							
10.0							
12.5							
15.0							
17.5							
20.0							2" Diameter Borehole



SIGNATURE OF Weston W. Davernock SUPERVISOR AND REVIEWER
Principal Geoscientist
TITLE

SOIL DRILLING LOG

SB/MW #: MH-21
 # D- 21624
 Page 1 of 1
 Geologist: N. King



Nathan King
 SIGNATURE OF GEOLOGIST

PROJECT <u>Former Standard Brands Paint Store</u>	LOCATION <u>4343 San Pablo Ave, Emeryville, CA</u>
TOC ELEVATION <u>NA</u> (MSL) DATE(S) <u>6/11/97</u>	TOTAL DEPTH <u>24.0'</u>
MONITORING DEVICE <u>OVM</u>	SCREENED INTERVAL <u>15.95 - 20.95'</u>
SAMPLING METHOD <u>Direct Push</u>	SUBCONTRACTOR & EQPT <u>McLaren/Hart/Geoprobe</u>
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO <input type="checkbox"/> =First Water <input type="checkbox"/> =Static Water (6/11/97)	
MEMO <u> </u>	

Depth Below Surface (ft.)	Sampler Interval/Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
				0 - 3" ASPHALT 3" - 2' FILL			2" Diameter Borehole
-2.5				Push to 24'			
-5.0							
-7.5							
-10.0							
-12.5							
-15.0							
-17.5							
-20.0							
-22.5				Rod wet at 21'			
-24.0							24.0



Clayton W. Daventry
 SIGNATURE OF FIELD SUPERVISOR AND REVIEWER
 Principal Geoscientist
 TITLE

SOIL DRILLING LOG

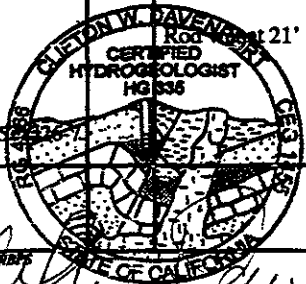
SB/MW #: MH-22
 # D- 21625
 Page 1 of 1
 Geologist: N. King



Nathan King
 SIGNATURE OF GEOLOGIST

PROJECT Former Standard Brands Paint Store LOCATION 4343 San Pablo Ave, Emeryville, CA
 TOC ELEVATION NA (MSL) DATE(S) 6/11/97 TOTAL DEPTH 24.0'
 MONITORING DEVICE OVM SCREENED INTERVAL 14.65 - 19.65'
 SAMPLING METHOD Direct Push SUBCONTRACTOR & EQPT McLaren/Hart/Geoprobe
 PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ∇ = First Water ∇ = Static Water (6/11/97)
 MEMO _____

Depth Below Surface (ft.)	Sampler Interval/Recovery	Sample ID #	PID Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0 - 2.5				0 - 3" ASPHALT 3" - 2' FILL			 2" Diameter Borehole
2.5 - 24.0				Push to 24'			
24.0							



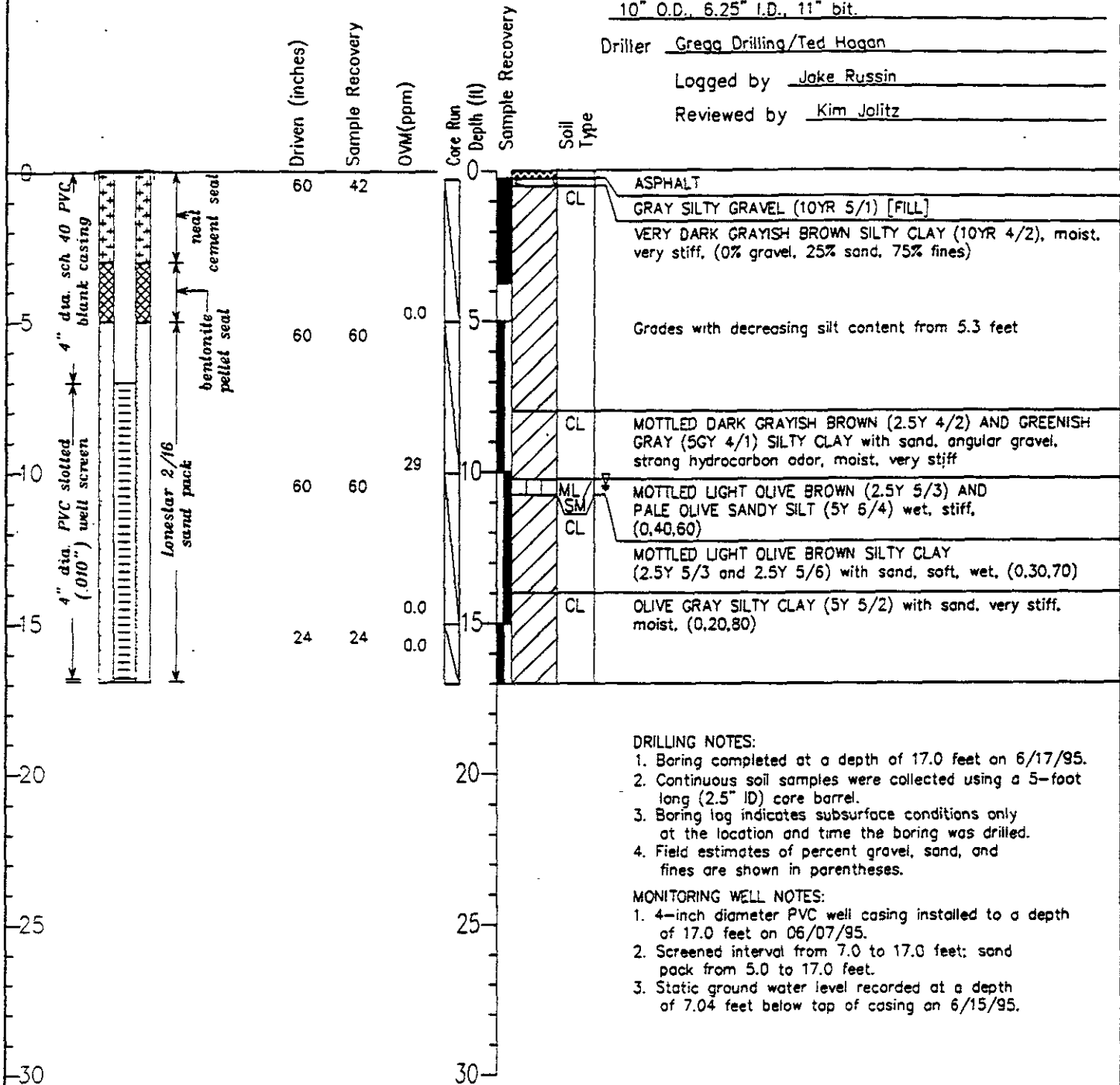
Clayton W. Davenport
 SIGNATURE OF FIELD SUPERVISOR AND REVIEWER
 Principal Geoscientist
 TITLE

ENVIRON

1995

Top of PVC Casing
Elevation: 40.84 feet, MSL Datum

Surface Elev. 41.28 feet MSL Datum
 Coordinates N6017.36, E4697.85
 Drill Date: Start 6/7/95 Finish 6/7/95
 Drill Method Mobile B-53: Hollow-Stem Auger
10" O.D., 6.25" I.D., 11" bit.
 Driller Gregg Drilling/Ted Hogan
 Logged by Jake Russin
 Reviewed by Kim Jolitz



ENVIRON

Counsel in Health and Environmental Science

Job No.03-46C3D

Approved:

8/16/95

LOG OF BORING

Standard Brands Remedial Design Investigation
 4343 San Pablo Ave.,
 Emeryville, California

Page
1 of 1

MW1

FIGURE

A-18

Top of PVC Casing
Elevation: 42.38. MSL Datum

Surface Elev. 42.85 feet, MSL Datum

Coordinates N5833.13, E4733.91

Pilot Hole Drill Date: Start 5/16/95 Finish 5/16/95

Well Hole Drill Date: Start 6/6/95 Finish 6/6/95

Pilot Hole Drill Method Hydraulic-driven core barrel inside
2 1/2-inch diameter rod; custom designed drill rig (XD-1)

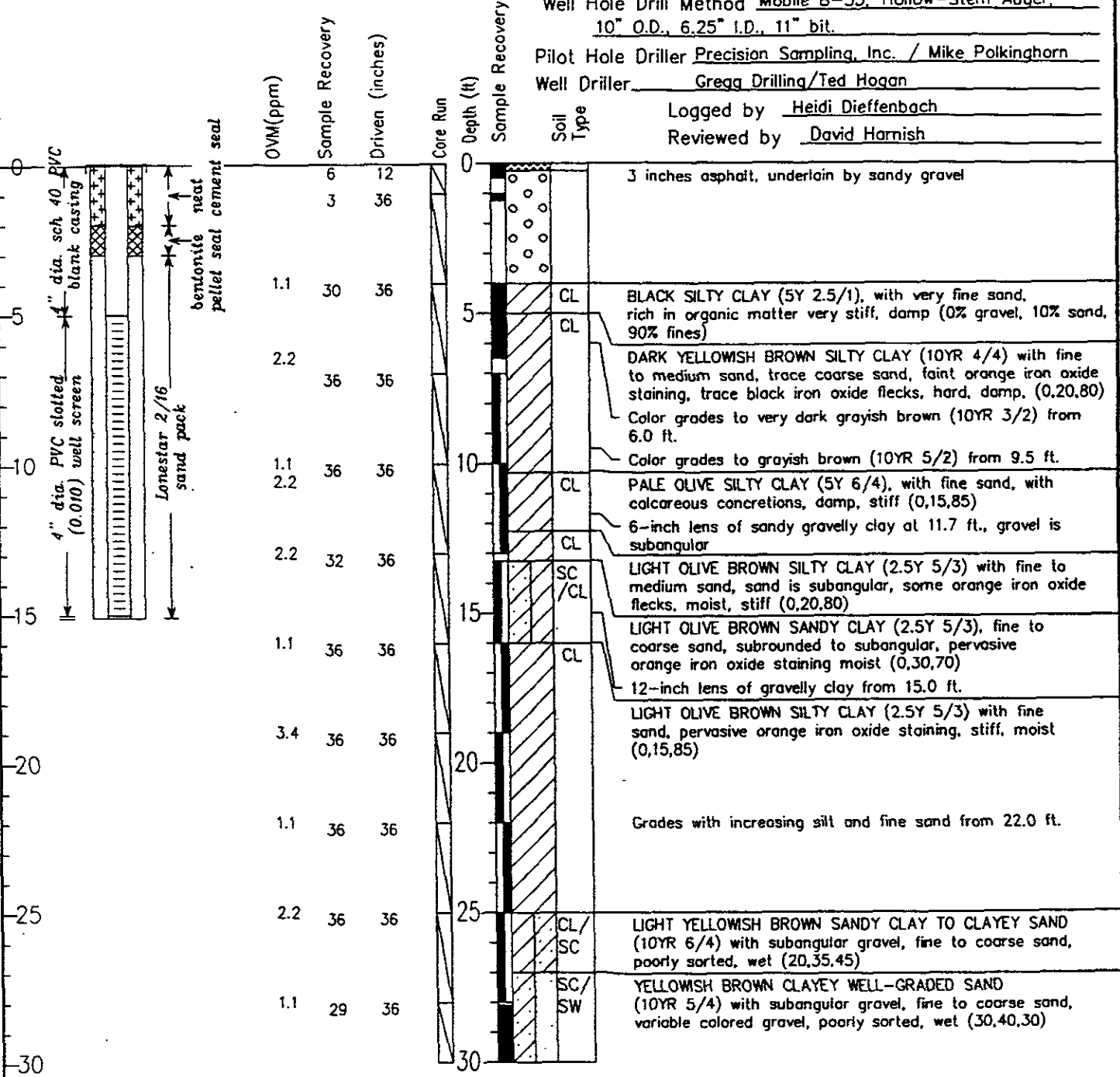
Well Hole Drill Method Mobile B-53; Hollow-Stem Auger,
10" O.D., 6.25" I.D., 11" bit.

Pilot Hole Driller Precision Sampling, Inc. / Mike Polkinghorn

Well Driller Gregg Drilling/Ted Hogan

Logged by Heidi Dieffenbach

Reviewed by David Harnish



ENVIRON

Counsel in Health and Environmental Science

Job No.03-4603B

Approved:

7/31/95

LOG OF BORING AND WELL CONSTRUCTION DETAILS
Standard Brands Remedial Design Investigation
4343 San Pablo Ave.,
Emeryville, California

Page
1 of 2

MW2 (B-8)

FIGURE

A-19

Surface Elev. N/A

Coordinates See Site Plan

Pilot Hole Drill Date: Start 5/16/95 Finish 5/16/95

Well Hole Drill Date: Start 6/6/95 Finish 6/6/95

Pilot Hole Drill Method Hydraulic-driven core barrel inside
2 1/2-inch diameter rod; custom designed drill rig (XD-1)

Well Hole Drill Method Mobile B-53; Hollow-Stem Auger,
10" O.D., 6.25" I.D., 11" bit.

Pilot Hole Driller Precision Sampling, Inc. / Mike Polkinghorn

Well Driller Gregg Drilling/Ted Hogan

Soil Type Logged by Heidi Dieffenbach

Reviewed by David Harnish

OVA(ppm)/OVM(ppm)

Sample Recovery

Driven (inches)

Core Run

Depth (ft)

Sample Recovery

30

30

SC/SW

35

35

40

40

45

45

50

50

55

55

60

60

DRILLING NOTES:

1. Boring completed at a depth of 31.0 feet on 5/16/95.
2. Soil samples were collected by driving a 1.875-inch diameter by 3-foot long sample barrel into undisturbed soil.
3. During drilling the outer well drilling rods were left in place to a depth of 21 feet. Once the boring was completed, a 1-inch diameter PVC well casing with 0.010-inch slotted screen was placed into the borehole. The screen was set from 21 to 31 feet.
4. Depth to water in temporary PVC casing measured at 22.22 feet below ground surface on 5/16/95. Water level measured was not static.
5. A ground water grab sample was collected on 5/16/95.
6. Boring log indicates subsurface conditions only at the location and time the boring was drilled.
7. Field estimates of percent gravel, sand and fines are shown in parentheses.

MONITORING WELL NOTES:

1. 4-inch diameter PVC well casing to a depth of 15 feet on 6/6/95.
2. Screened interval from 5 to 15 feet, sand pack from 3 to 15 feet.
3. Static ground water level recorded at a depth of 9.61 feet below top of casing on 6/15/95.

ENVIRON

Counsel in Health and Environmental Science

Job No.03-4603B

Approved:

7/31/95

LOG OF BORING AND WELL CONSTRUCTION DETAILS

Standard Brands Remedial Design Investigation
4343 San Pablo Ave.,
Emeryville, California

Page

2 of 2

MW2 (B-8)

FIGURE

A-20

Top of PVC Casing
Elevation. 38.70 ft., MSL Datum

Surface Elev. 39.21 feet MSL Datum

Coordinates N: 5847.90, E: 4491.67

Drill Date: Start 6/6/95 Finish 6/6/95

Drill Method Mobile B-53; Hollow-Stem Auger

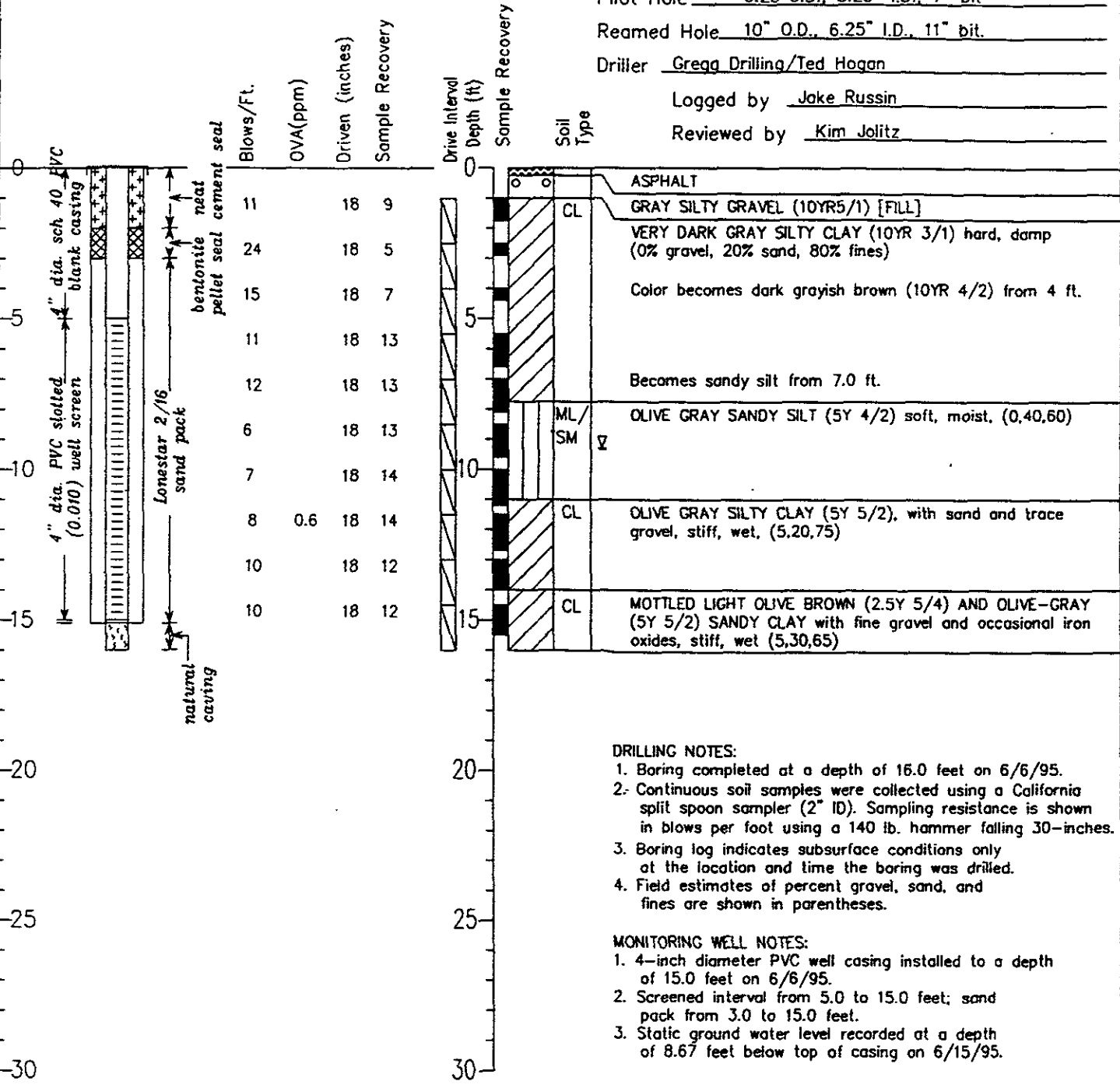
Pilot Hole 6.25" O.D., 3.25" I.D., 7" bit

Reamed Hole 10" O.D., 6.25" I.D., 11" bit

Driller Gregg Drilling/Ted Hogan

Logged by Jake Russin

Reviewed by Kim Jolitz



DRILLING NOTES:

1. Boring completed at a depth of 16.0 feet on 6/6/95.
2. Continuous soil samples were collected using a California split spoon sampler (2" ID). Sampling resistance is shown in blows per foot using a 140 lb. hammer falling 30-inches.
3. Boring log indicates subsurface conditions only at the location and time the boring was drilled.
4. Field estimates of percent gravel, sand, and fines are shown in parentheses.

MONITORING WELL NOTES:

1. 4-inch diameter PVC well casing installed to a depth of 15.0 feet on 6/6/95.
2. Screened interval from 5.0 to 15.0 feet; sand pack from 3.0 to 15.0 feet.
3. Static ground water level recorded at a depth of 8.67 feet below top of casing on 6/15/95.

ENVIRON

Counsel in Health and Environmental Science

Job No.03-4603D

Approved:

8/8/95

LOG OF BORING

Standard Brands Remedial Design Investigation
4343 San Pablo Ave.,
Emeryville, California

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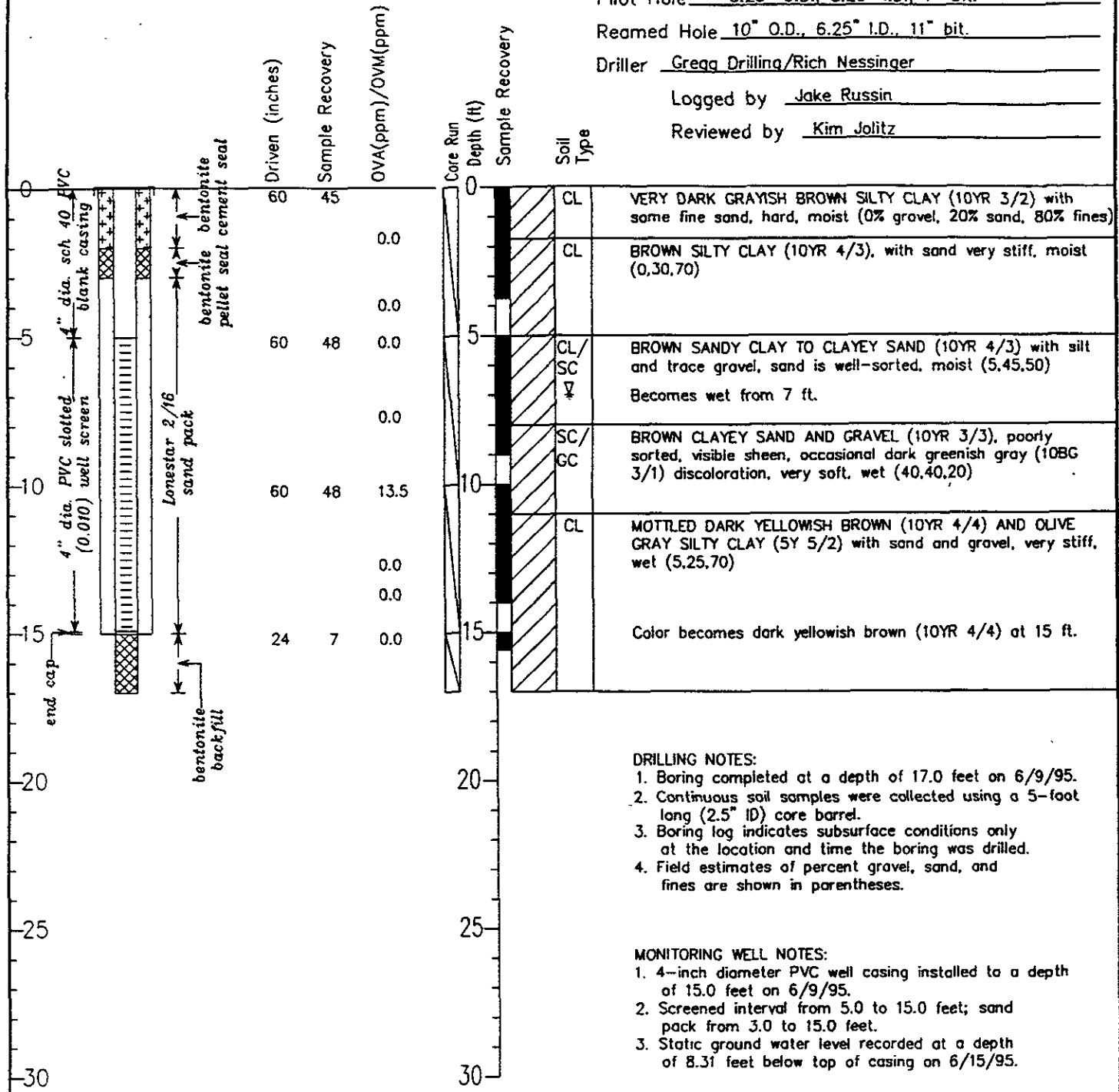
FIGURE

A-21

MW3

Top of PVC Casing
Elevation: 35.59 ft., MSL Datum

Surface Elev. 36.03 feet MSL Datum
 Coordinates N: 5811.29, E: 4603.47
 Drill Date: Start 6/9/95 Finish 6/9/95
 Drill Method Mobile B-53; Hollow-Stem Auger
 Pilot Hole 6.25" O.D., 3.25" I.D., 7" bit
 Reamed Hole 10" O.D., 6.25" I.D., 11" bit
 Driller Gregg Drilling/Rich Nessinger
 Logged by Jake Russin
 Reviewed by Kim Jolitz



- DRILLING NOTES:**
- Boring completed at a depth of 17.0 feet on 6/9/95.
 - Continuous soil samples were collected using a 5-foot long (2.5" ID) core barrel.
 - Boring log indicates subsurface conditions only at the location and time the boring was drilled.
 - Field estimates of percent gravel, sand, and fines are shown in parentheses.

- MONITORING WELL NOTES:**
- 4-inch diameter PVC well casing installed to a depth of 15.0 feet on 6/9/95.
 - Screened interval from 5.0 to 15.0 feet; sand pack from 3.0 to 15.0 feet.
 - Static ground water level recorded at a depth of 8.31 feet below top of casing on 6/15/95.

ENVIRON

Counsel in Health and Environmental Science

Job No.03-4603D

Approved:

7/31/95

LOG OF BORING

Standard Brands Remedial Design Investigation
 4343 San Pablo Ave.,
 Emeryville, California

Page 1 of 1

FIGURE

A-22

MW4

Top of PVC Casing
Elevation: 32.90 feet, MSL Datum

Surface Elev. 33.44 feet, MSL Datum

Coordinates N: 5771.91 E: 4149.27

Pilot Hole Drill Date: Start 6/6/95 Finish 6/6/95

Well Hole Drill Date: Start 6/9/95 Finish 6/9/95

Drill Method Mobile B-53; Hollow-Stem Auger,

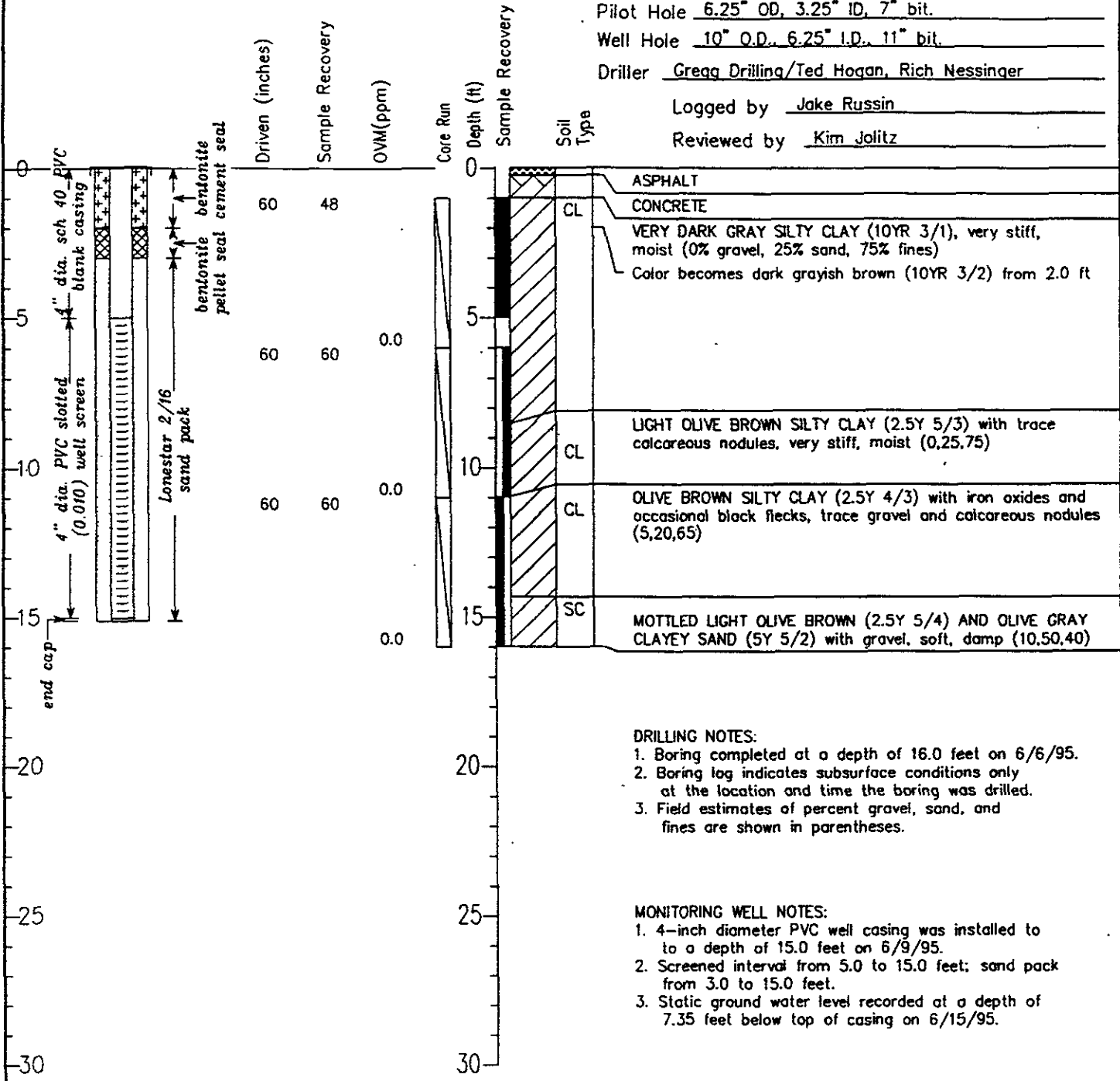
Pilot Hole 6.25" OD, 3.25" ID, 7" bit.

Well Hole 10" O.D., 6.25" I.D., 11" bit.

Driller Gregg Drilling/Ted Hogan, Rich Nessinger

Logged by Jake Russin

Reviewed by Kim Jolitz



DRILLING NOTES:

- Boring completed at a depth of 16.0 feet on 6/6/95.
- Boring log indicates subsurface conditions only at the location and time the boring was drilled.
- Field estimates of percent gravel, sand, and fines are shown in parentheses.

MONITORING WELL NOTES:

- 4-inch diameter PVC well casing was installed to a depth of 15.0 feet on 6/9/95.
- Screened interval from 5.0 to 15.0 feet; sand pack from 3.0 to 15.0 feet.
- Static ground water level recorded at a depth of 7.35 feet below top of casing on 6/15/95.

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FIGURE

A-23

Job No.03-4603D Approved: 8/8/95

MW5 (B-13)

MAJOR DIVISIONS		GRAPHIC SYMBOL	SOIL CODE	DESCRIPTIONS
COARSE-GRAINED SOILS More than half is coarser than #200 sieve	GRAVELS more than half coarse fraction is larger than no. 4 sieve	CLEAN GRAVELS WITH LITTLE OR NO FINES		GW WELL GRADED GRAVELS, WITH OR WITHOUT SAND, LITTLE OR NO FINES
				GP POORLY GRADED GRAVELS, WITH OR WITHOUT SAND, LITTLE OR NO FINES
		GRAVELS WITH OVER 12% FINES		GM SILTY GRAVELS, SILTY GRAVELS WITH SAND
				GC CLAYEY GRAVELS, CLAYEY GRAVELS WITH SAND
	SANDS more than half coarse fraction is smaller than no. 4 sieve	CLEAN SANDS WITH LITTLE OR NO FINES		SW WELL GRADED SANDS, WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
				SP POORLY GRADED SANDS, WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
		SANDS WITH OVER 12% FINES		SM SILTY SANDS, WITH OR WITHOUT GRAVEL
				SC CLAYEY SANDS, WITH OR WITHOUT GRAVEL
FINE-GRAINED SOILS	SILTS AND CLAYS liquid limit 50 or less		ML INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, CLAYEY SILTS OF LOW PLASTICITY	
			CL INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, CLAYS WITH SANDS AND GRAVELS, LEAN CLAYS	
			OL ORGANIC SILTS OR CLAYS OF LOW PLASTICITY	
	SILTS AND CLAYS liquid limit greater than 50		MH INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS, FINE SANDY OR SILTY SOILS, ELASTIC SILTS	
			CH INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
			OH ORGANIC SILTS OR CLAYS OF MEDIUM TO HIGH PLASTICITY	
HIGHLY ORGANIC SOILS		PT PEAT AND OTHER HIGHLY ORGANIC SOILS		

SOIL SAMPLE RECOVERY KEY

- Soil Sample (relatively undisturbed) Complete Recovery
- Soil Sample (disturbed) Partial Recovery
- Continuous Core Run Sample Recovery
- Continuous Core Run No Recovery

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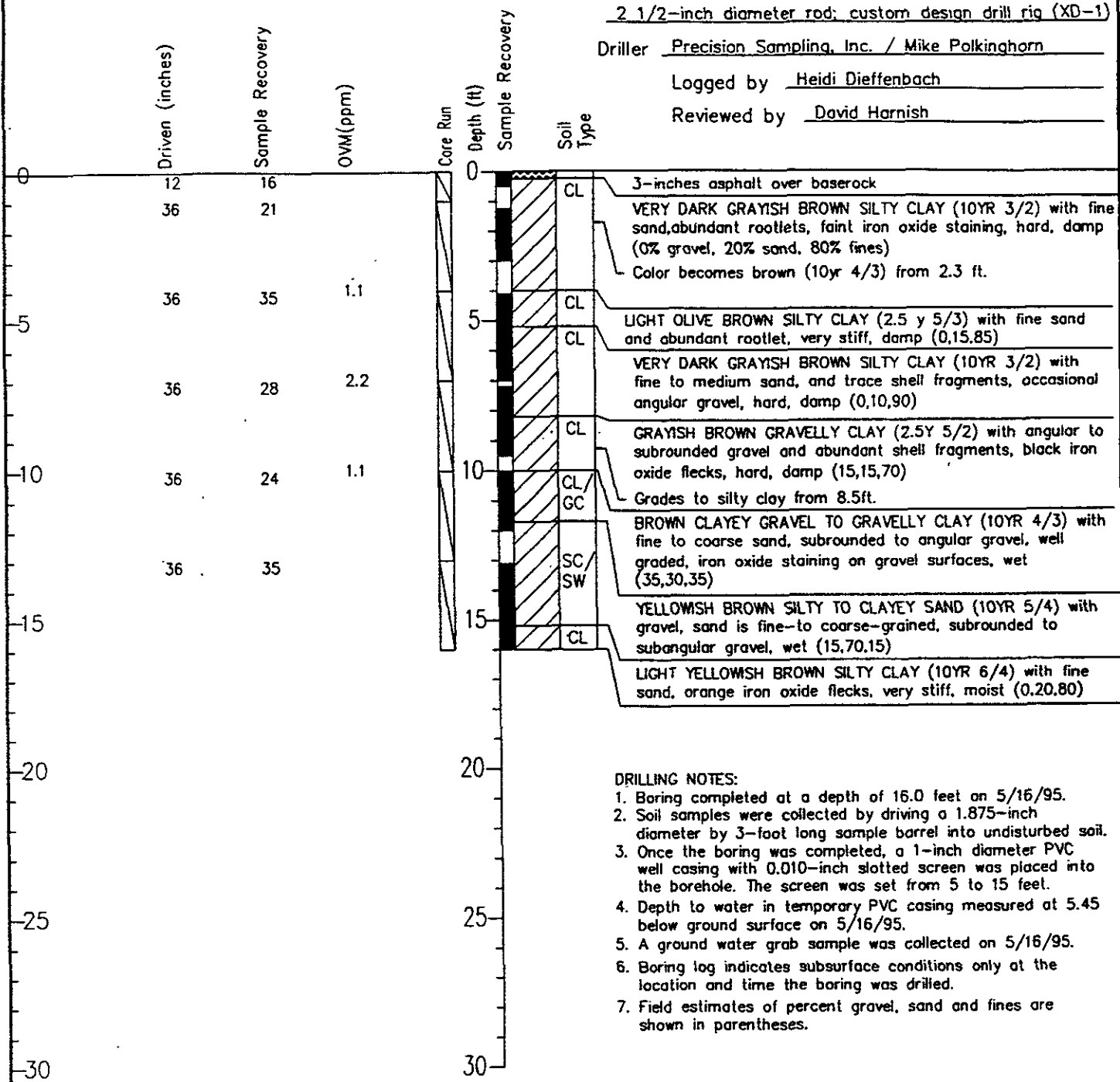
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Key to Unified Soil Classification System
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Figure

A-1

Surface Elev. N/A
 Coordinates See Site Plan
 Drill Date: Start 5/16/95 Finish 5/16/95
 Drill Method Hydraulic-driven core barrel inside
2 1/2-inch diameter rod; custom design drill rig (XD-1)
 Driller Precision Sampling, Inc. / Mike Polkinghorn
 Logged by Heidi Dieffenbach
 Reviewed by David Harnish



- DRILLING NOTES:**
- Boring completed at a depth of 16.0 feet on 5/16/95.
 - Soil samples were collected by driving a 1.875-inch diameter by 3-foot long sample barrel into undisturbed soil.
 - Once the boring was completed, a 1-inch diameter PVC well casing with 0.010-inch slotted screen was placed into the borehole. The screen was set from 5 to 15 feet.
 - Depth to water in temporary PVC casing measured at 5.45 below ground surface on 5/16/95.
 - A ground water grab sample was collected on 5/16/95.
 - Boring log indicates subsurface conditions only at the location and time the boring was drilled.
 - Field estimates of percent gravel, sand and fines are shown in parentheses.

Surface Elev. N/A

Coordinates See Site Plan

Drill Date: Start 5/17/95 Finish 5/17/95

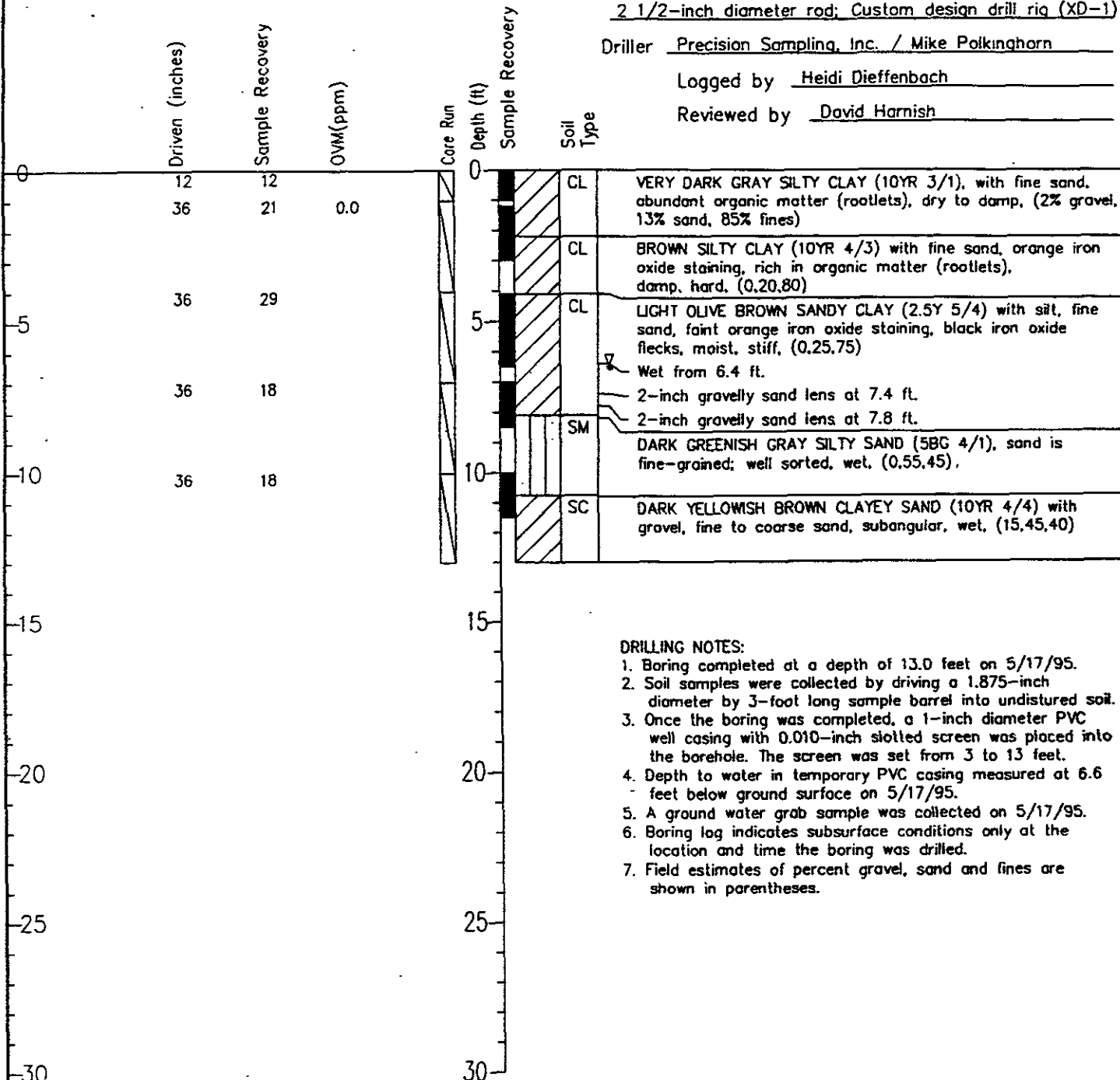
Drill Method Hydraulic-driven core barrel inside

2 1/2-inch diameter rod; Custom design drill rig (XD-1)

Driller Precision Sampling, Inc. / Mike Polkinghorn

Logged by Heidi Dieffenbach

Reviewed by David Harnish



DRILLING NOTES:

1. Boring completed at a depth of 13.0 feet on 5/17/95.
2. Soil samples were collected by driving a 1.875-inch diameter by 3-foot long sample barrel into undisturbed soil.
3. Once the boring was completed, a 1-inch diameter PVC well casing with 0.010-inch slotted screen was placed into the borehole. The screen was set from 3 to 13 feet.
4. Depth to water in temporary PVC casing measured at 6.6 feet below ground surface on 5/17/95.
5. A ground water grab sample was collected on 5/17/95.
6. Boring log indicates subsurface conditions only at the location and time the boring was drilled.
7. Field estimates of percent gravel, sand and fines are shown in parentheses.

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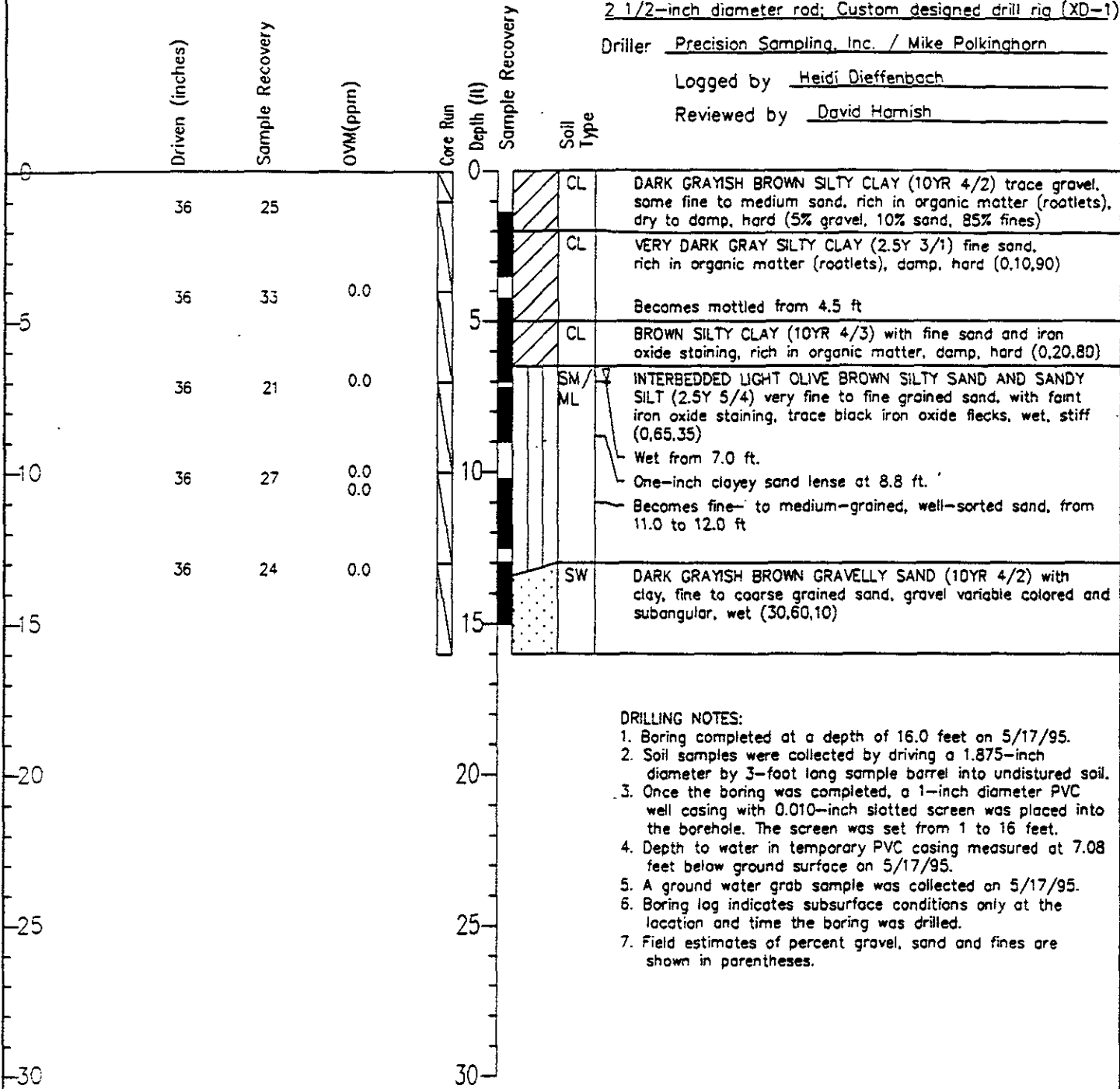
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FIGURE

A-3

B-2

Surface Elev. N/A
 Coordinates See Site Plan
 Drill Date: Start 5/17/95 Finish 5/17/95
 Drill Method Hydraulic-driven core barrel inside
2 1/2-inch diameter rod; Custom designed drill rig (XD-1)
 Driller Precision Sampling, Inc. / Mike Polkinghorn
 Logged by Heidi Dieffenbach
 Reviewed by David Hornish



- DRILLING NOTES:**
- Boring completed at a depth of 16.0 feet on 5/17/95.
 - Soil samples were collected by driving a 1.875-inch diameter by 3-foot long sample barrel into undisturbed soil.
 - Once the boring was completed, a 1-inch diameter PVC well casing with 0.010-inch slotted screen was placed into the borehole. The screen was set from 1 to 16 feet.
 - Depth to water in temporary PVC casing measured at 7.08 feet below ground surface on 5/17/95.
 - A ground water grab sample was collected on 5/17/95.
 - Boring log indicates subsurface conditions only at the location and time the boring was drilled.
 - Field estimates of percent gravel, sand and fines are shown in parentheses.

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FIGURE

A-4

B-3

Surface Elev. N/A

Coordinates See Site Plan

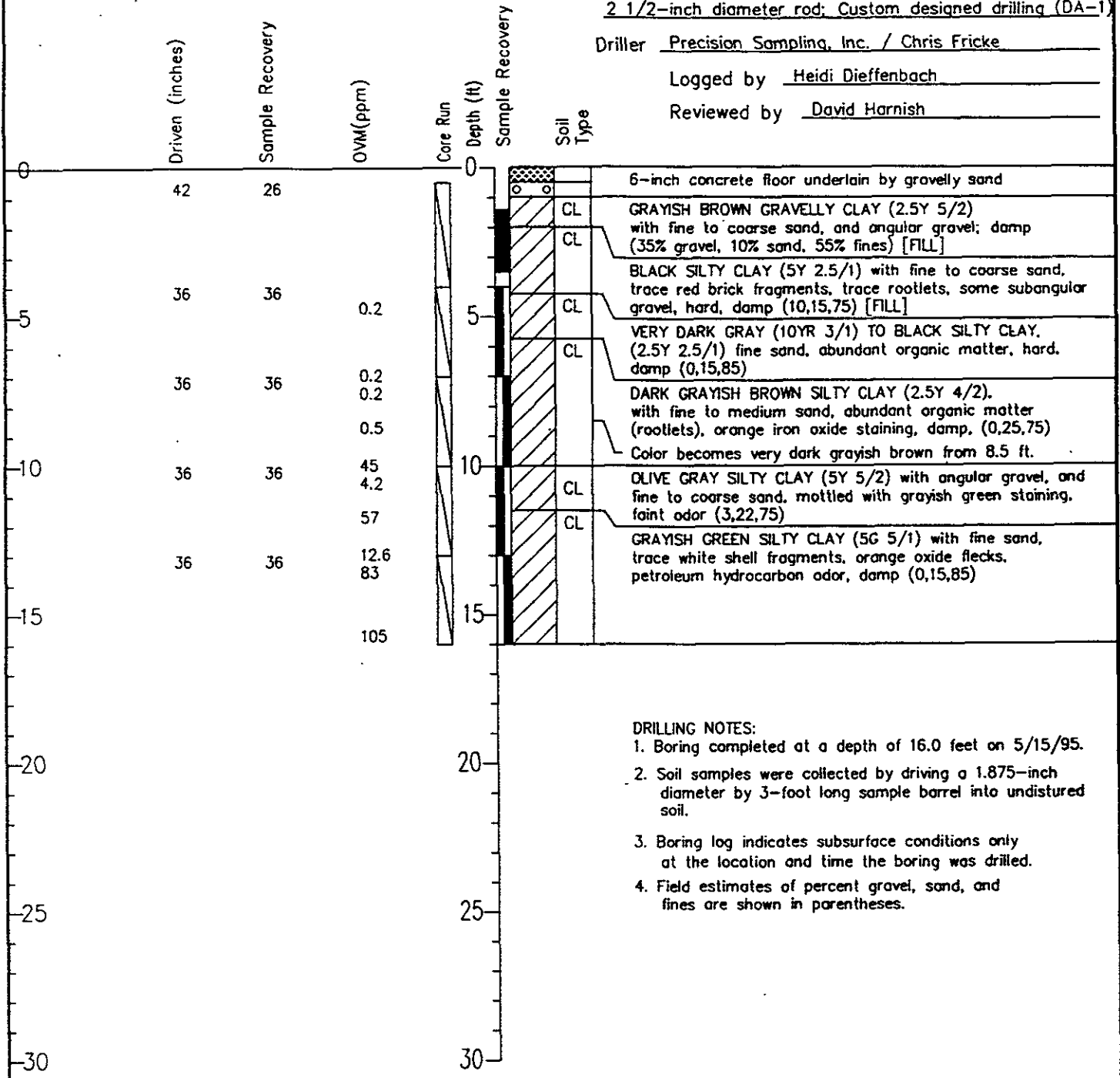
Drill Date: Start 5/15/95 Finish 5/15/95

Drill Method Hydraulic-driven core barrel inside
2 1/2-inch diameter rod; Custom designed drilling (DA-1)

Driller Precision Sampling, Inc. / Chris Fricke

Logged by Heidi Dieffenbach

Reviewed by David Harnish



- DRILLING NOTES:
1. Boring completed at a depth of 16.0 feet on 5/15/95.
 2. Soil samples were collected by driving a 1.875-inch diameter by 3-foot long sample barrel into undisturbed soil.
 3. Boring log indicates subsurface conditions only at the location and time the boring was drilled.
 4. Field estimates of percent gravel, sand, and fines are shown in parentheses.

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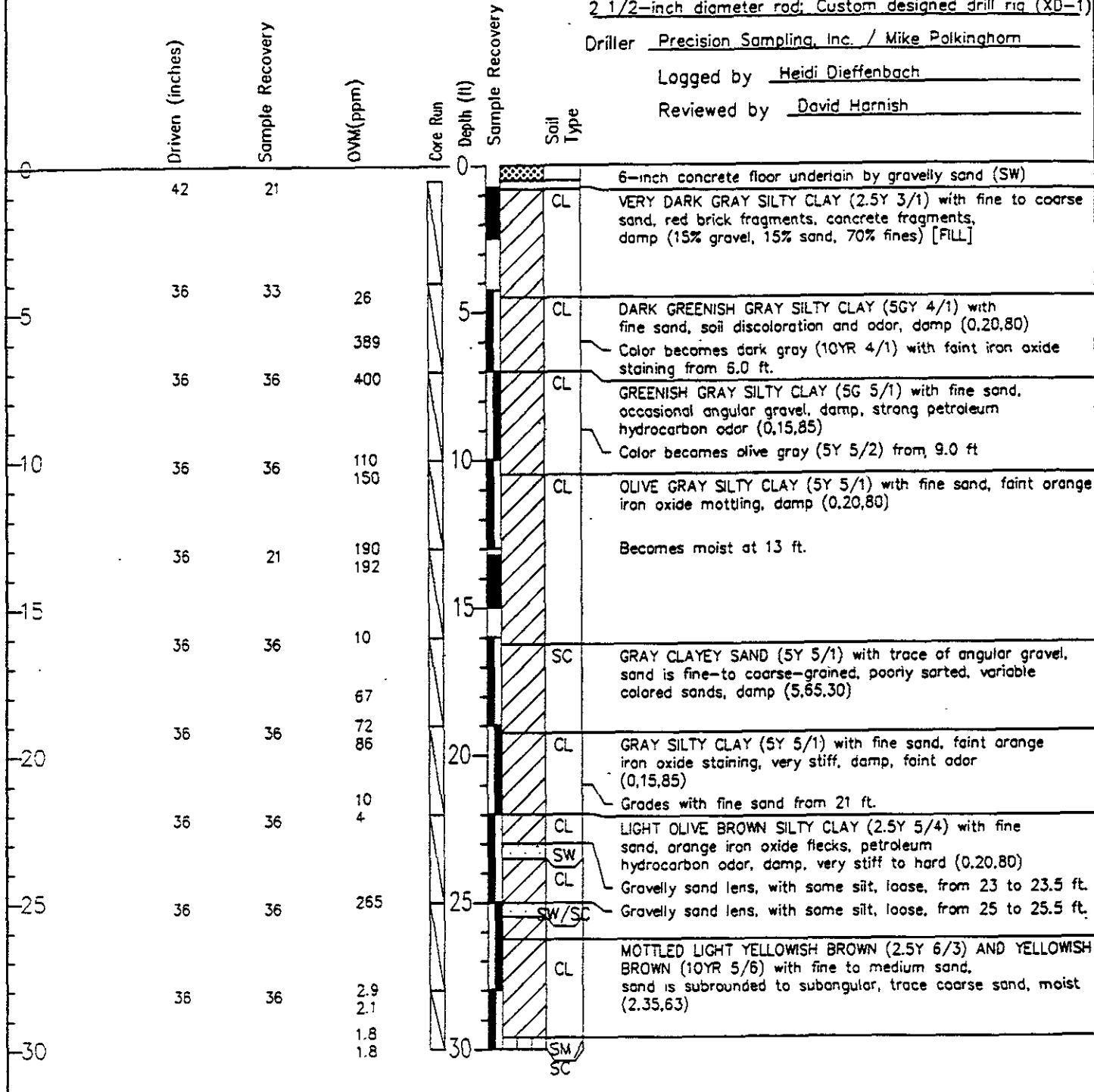
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B-4

FIGURE
A-5

Surface Elev. N/A
 Coordinates See Site Plan
 Drill Date: Start 5/15/95 Finish 5/15/95
 Drill Method Hydraulic-driven core barrel inside
2 1/2-inch diameter rod; Custom designed drill rig (XD-1)
 Driller Precision Sampling, Inc. / Mike Polkinghorn
 Logged by Heidi Dieffenbach
 Reviewed by David Harnish



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FIGURE

B-5

A-6

Surface Elev. N/A
 Coordinates See Site Plan
 Drill Date: Start 5/15/95 Finish 5/15/95
 Drill Method Hydraulic-driven core barrel
2 1/2-inch diameter rod; custom designed drill rig (XD-1)
 Driller Precision Sampling, Inc. / Mike Polkinghorn
 Logged by Heidi Dieffenbach
 Reviewed by David Harnish

Blows/Ft.	OVA(ppm)/OVM(ppm)	Driven (inches)	Sample Recovery	Core Run	Depth (ft)	Sample Recovery	Soil Type
		24	21		30		SM/SC

LIGHT OLIVE BROWN CLAYEY SAND AND SILTY SAND (2.5Y 5/9) with angular to subrounded gravel poorly sorted, moist to wet (10,45,45).

- DRILLING NOTES:
1. Boring completed at a depth of 33.0 feet on 5/15/95.
 2. Soil samples were collected by driving a 1.875-inch diameter by 3-foot long sample barrel into undisturbed soil.
 3. During drilling the outer well drilling rods were left in place to a depth of 29 feet. Once the boring was completed, a 1-inch diameter PVC well casing with 0.010-inch slotted screen was placed into the borehole. the screen was set from 21 to 33 feet.
 4. Depth to water in temporary PVC casing measured at 14.88 feet below ground surface on 5/15/95.
 5. A ground water grab sample was collected on 5/15/95.
 6. Boring log indicates subsurface conditions only at the location and time the boring was drilled.
 7. Field estimates of percent gravel, sand and fines are shown in parentheses.

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B-5

FIGURE

A-6

Surface Elev. N/A

Coordinates See Site Plan

Drill Date: Start 5/15/95 Finish 5/15/95

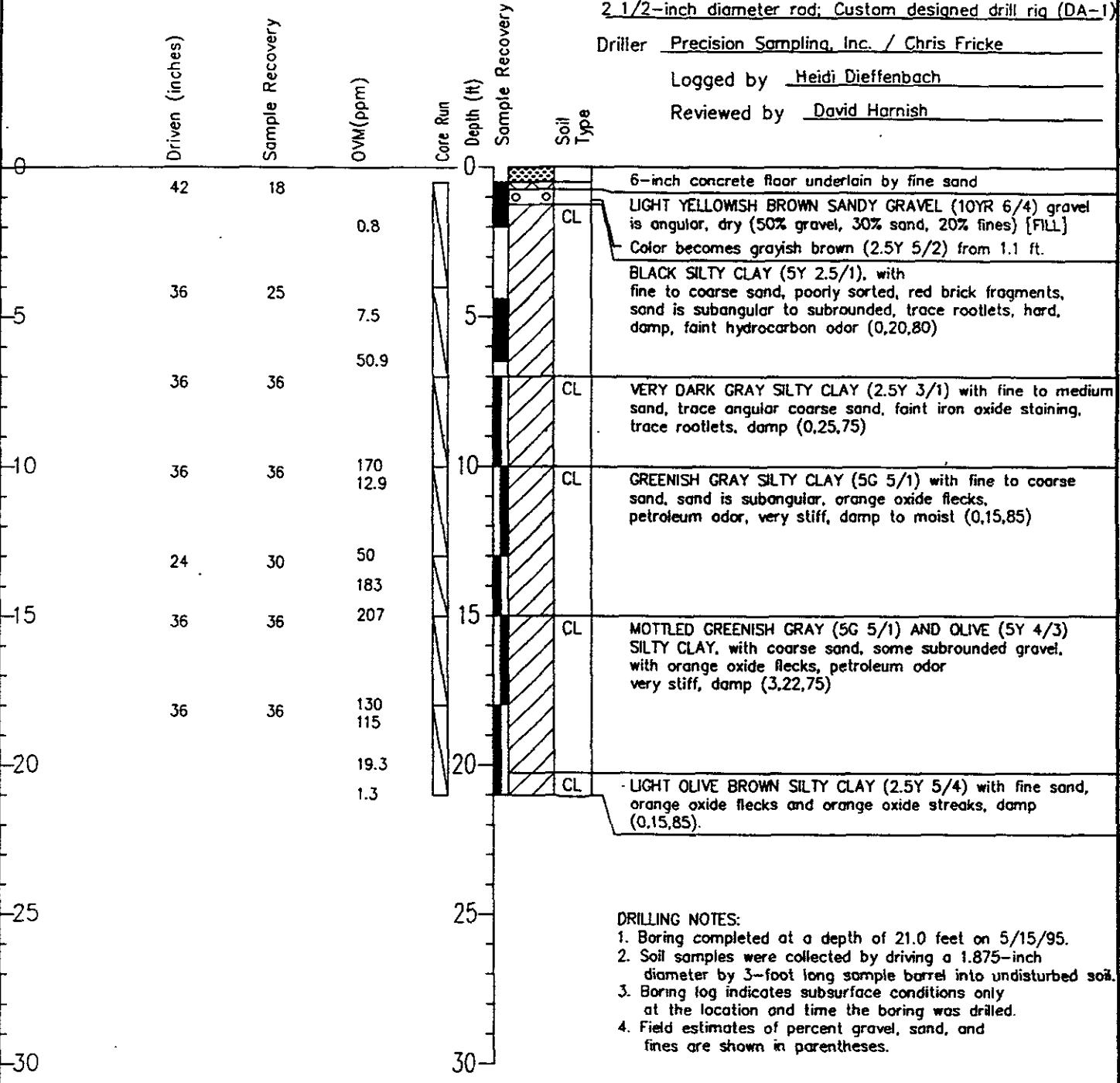
Drill Method Hydraulic-driven core barrel

2 1/2-inch diameter rod; Custom designed drill rig (DA-1)

Driller Precision Sampling, Inc. / Chris Fricke

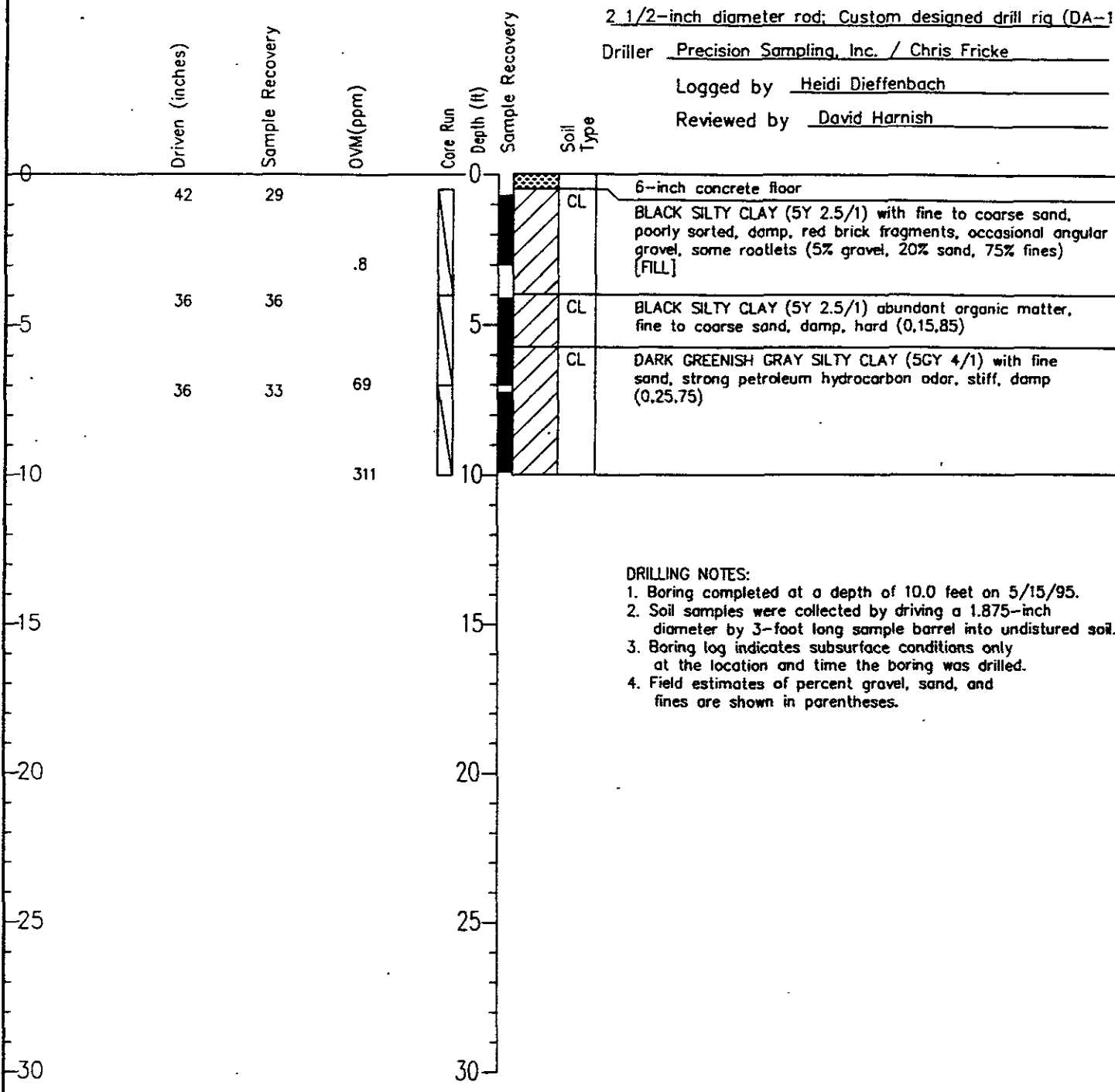
Logged by Heidi Dieffenbach

Reviewed by David Harnish



- DRILLING NOTES:
1. Boring completed at a depth of 21.0 feet on 5/15/95.
 2. Soil samples were collected by driving a 1.875-inch diameter by 3-foot long sample barrel into undisturbed soil.
 3. Boring log indicates subsurface conditions only at the location and time the boring was drilled.
 4. Field estimates of percent gravel, sand, and fines are shown in parentheses.

Surface Elev. N/A
 Coordinates See Site Plan
 Drill Date: Start 5/15/95 Finish 5/15/95
 Drill Method Hydraulic-driven core barrel inside
2 1/2-inch diameter rod; Custom designed drill rig (DA-1)
 Driller Precision Sampling, Inc. / Chris Fricke
 Logged by Heidi Dieffenbach
 Reviewed by David Harnish



- DRILLING NOTES:
- Boring completed at a depth of 10.0 feet on 5/15/95.
 - Soil samples were collected by driving a 1.875-inch diameter by 3-foot long sample barrel into undisturbed soil.
 - Boring log indicates subsurface conditions only at the location and time the boring was drilled.
 - Field estimates of percent gravel, sand, and fines are shown in parentheses.

Surface Elev. N/A

Coordinates See Site Plan

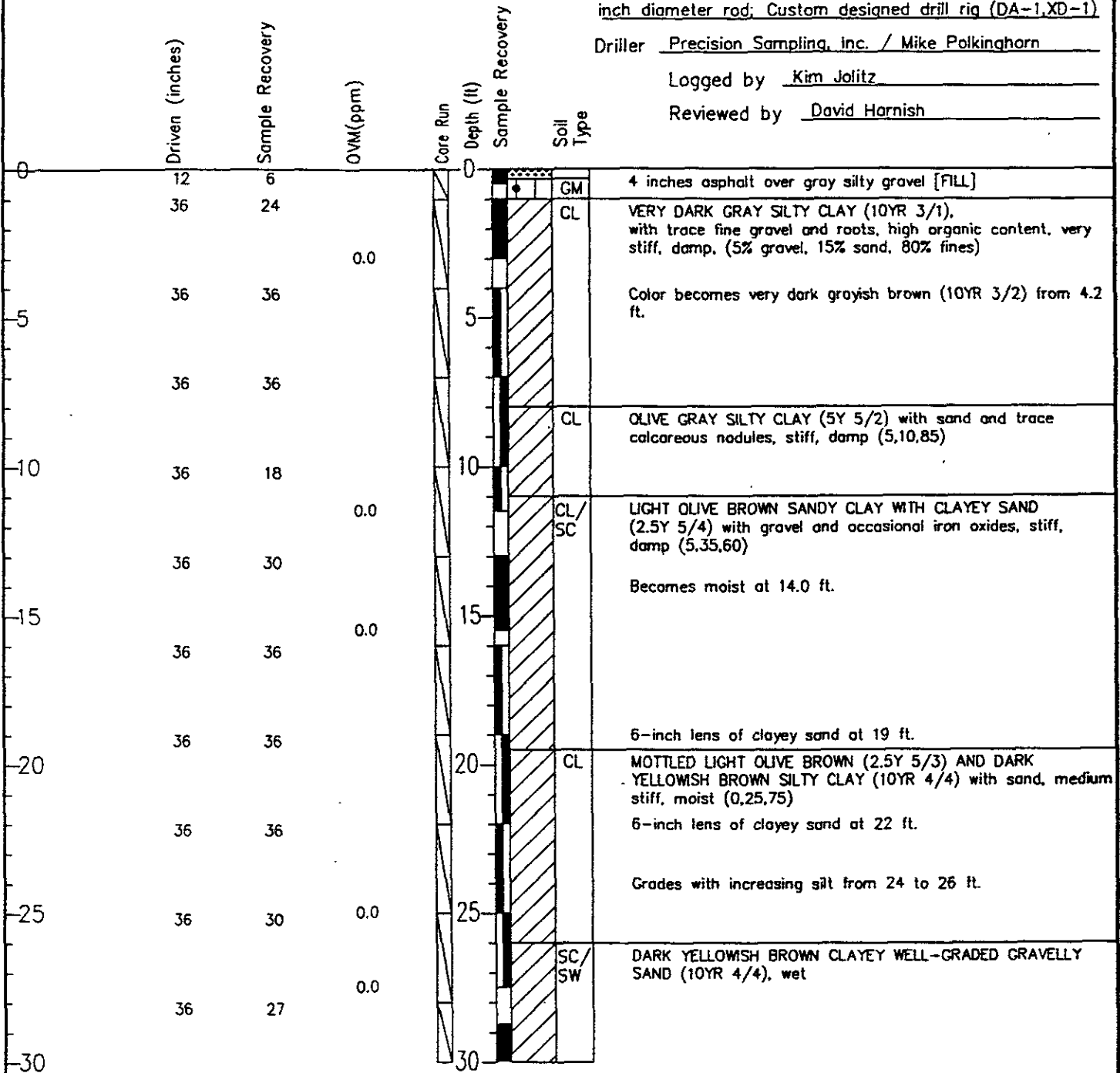
Drill Date: Start 5/15/95 Finish 5/15/95

Drill Method Hydraulic-driven core barrel inside 2 1/2-inch diameter rod; Custom designed drill rig (DA-1, XD-1)

Driller Precision Sampling, Inc. / Mike Polkinghorn

Logged by Kim Jolitz

Reviewed by David Harnish



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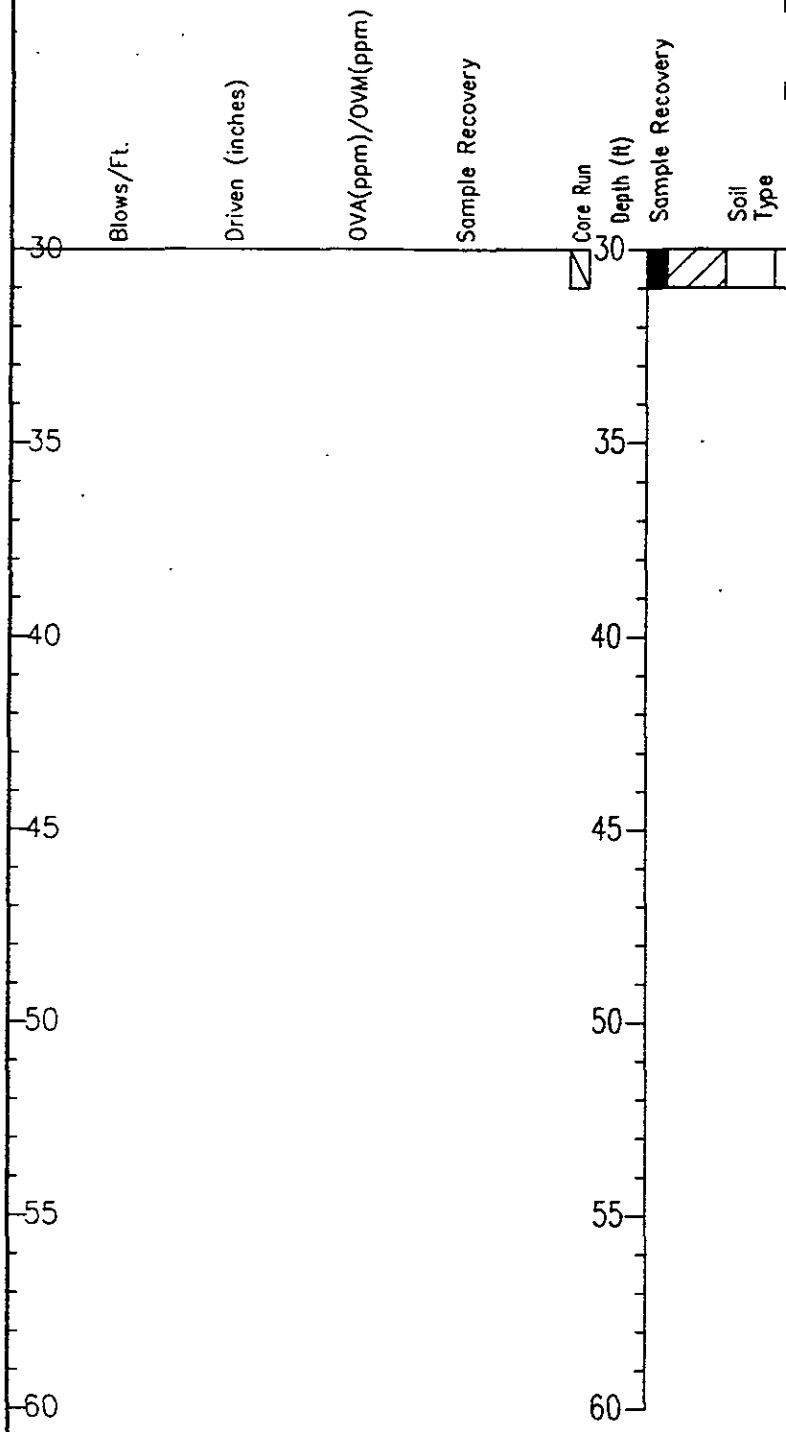
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FIGURE

A-9

B-9

Surface Elev. N/A
 Coordinates See Site Plan
 Drill Date: Start 5/15/95 Finish 5/15/95
 Drill Method Hydraulic-driven core barrel inside 2 1/2-inch diameter rod; custom designed drill rig (DA-1, XD-1)
 Driller Precision Sampling, Inc. / Mike Polkinghorn
 Logged by Kim Jolitz
 Reviewed by David Harnish



- DRILLING NOTES:**
1. Boring completed at a depth of 31.0 feet on 5/15/95.
 2. Soil samples were collected by driving a 1.875-inch diameter by 3-foot long sample barrel into undisturbed soil.
 3. During drilling the outer well drilling rods were left in place to a depth of 21 feet. Once the boring was completed, a 1-inch diameter PVC well casing with 0.010-inch slotted screen was placed into the borehole. The screen was set from 21 to 31 feet.
 4. Depth to water in temporary PVC casing measured at 28.9 feet below ground surface on 5/15/95. Water level measured was not static.
 5. A ground water grab sample was collected on 5/15/95.
 6. Boring log indicates subsurface conditions only at the location and time the boring was drilled.
 7. Field estimates of percent gravel, sand and fines are shown in parentheses.

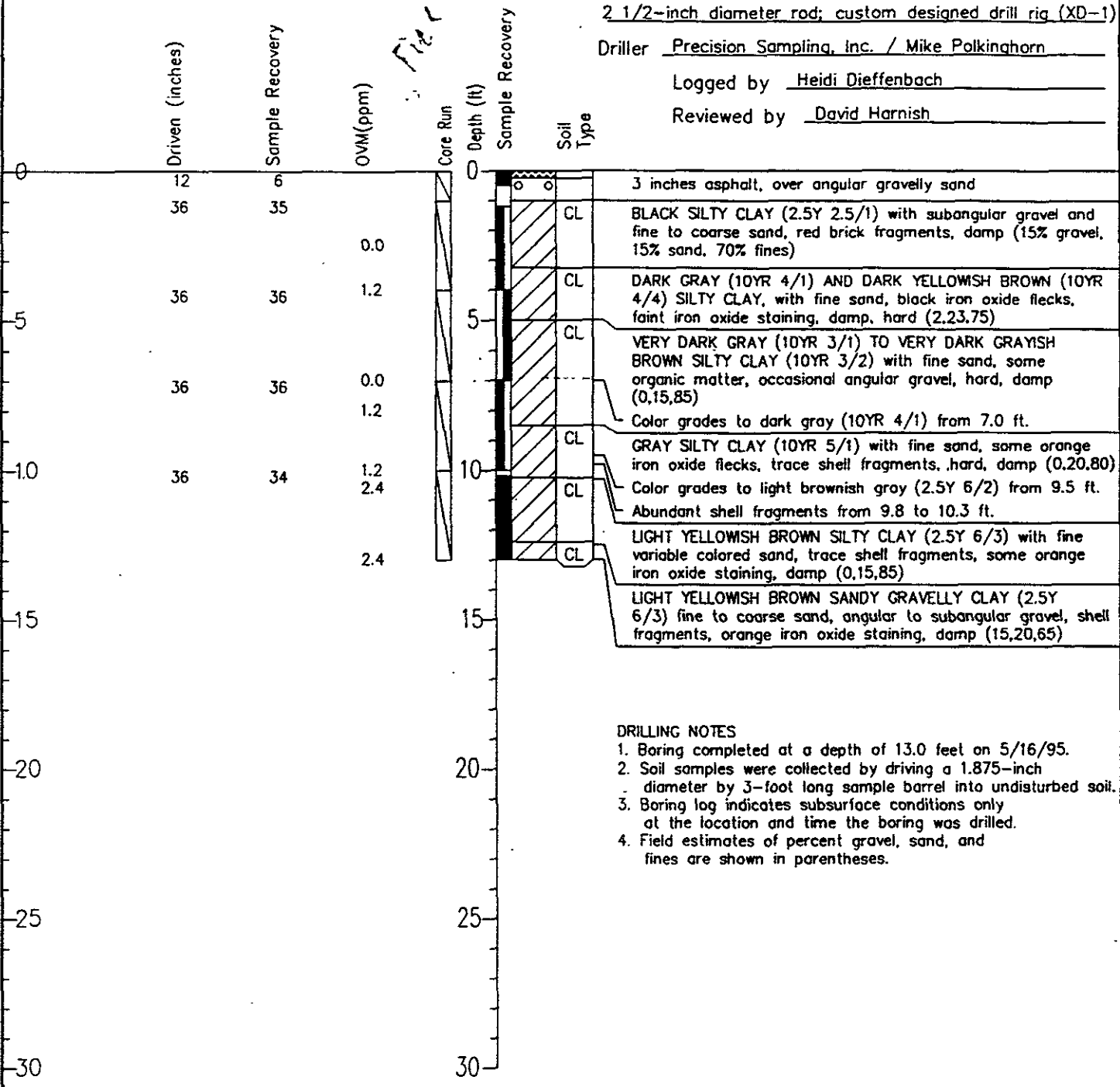
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Page 2 of 2 FIGURE

A-10
 B-9

Surface Elev. N/A
 Coordinates See Site Plan
 Drill Date: Start 5/16/95 Finish 5/16/95
 Drill Method Hydraulic-driven core barrel inside
2 1/2-inch diameter rod; custom designed drill rig (XD-1)
 Driller Precision Sampling, Inc. / Mike Polkinghorn
 Logged by Heidi Dieffenbach
 Reviewed by David Harnish



DRILLING NOTES

- Boring completed at a depth of 13.0 feet on 5/16/95.
- Soil samples were collected by driving a 1.875-inch diameter by 3-foot long sample barrel into undisturbed soil.
- Boring log indicates subsurface conditions only at the location and time the boring was drilled.
- Field estimates of percent gravel, sand, and fines are shown in parentheses.

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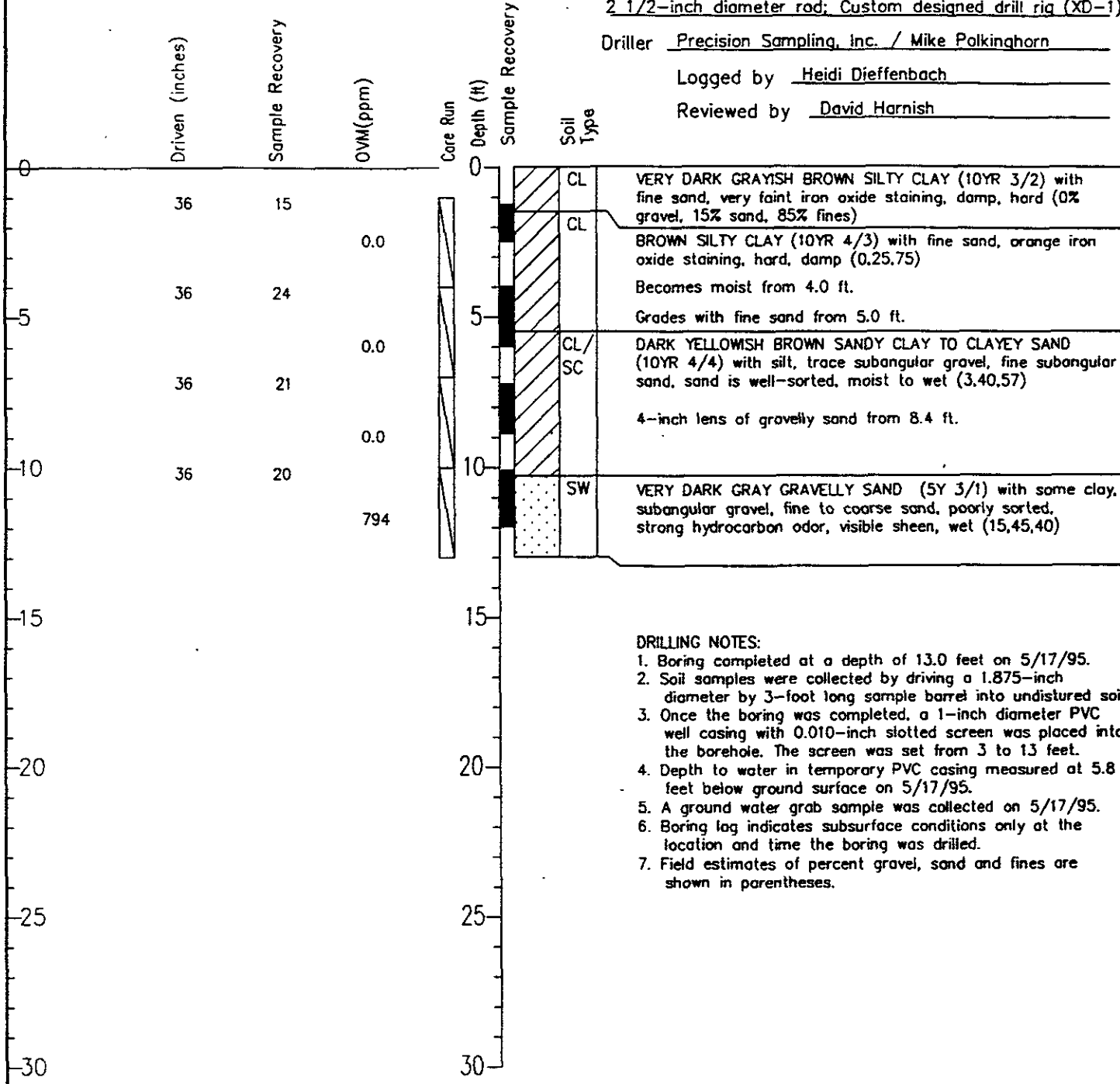
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FIGURE

B-10

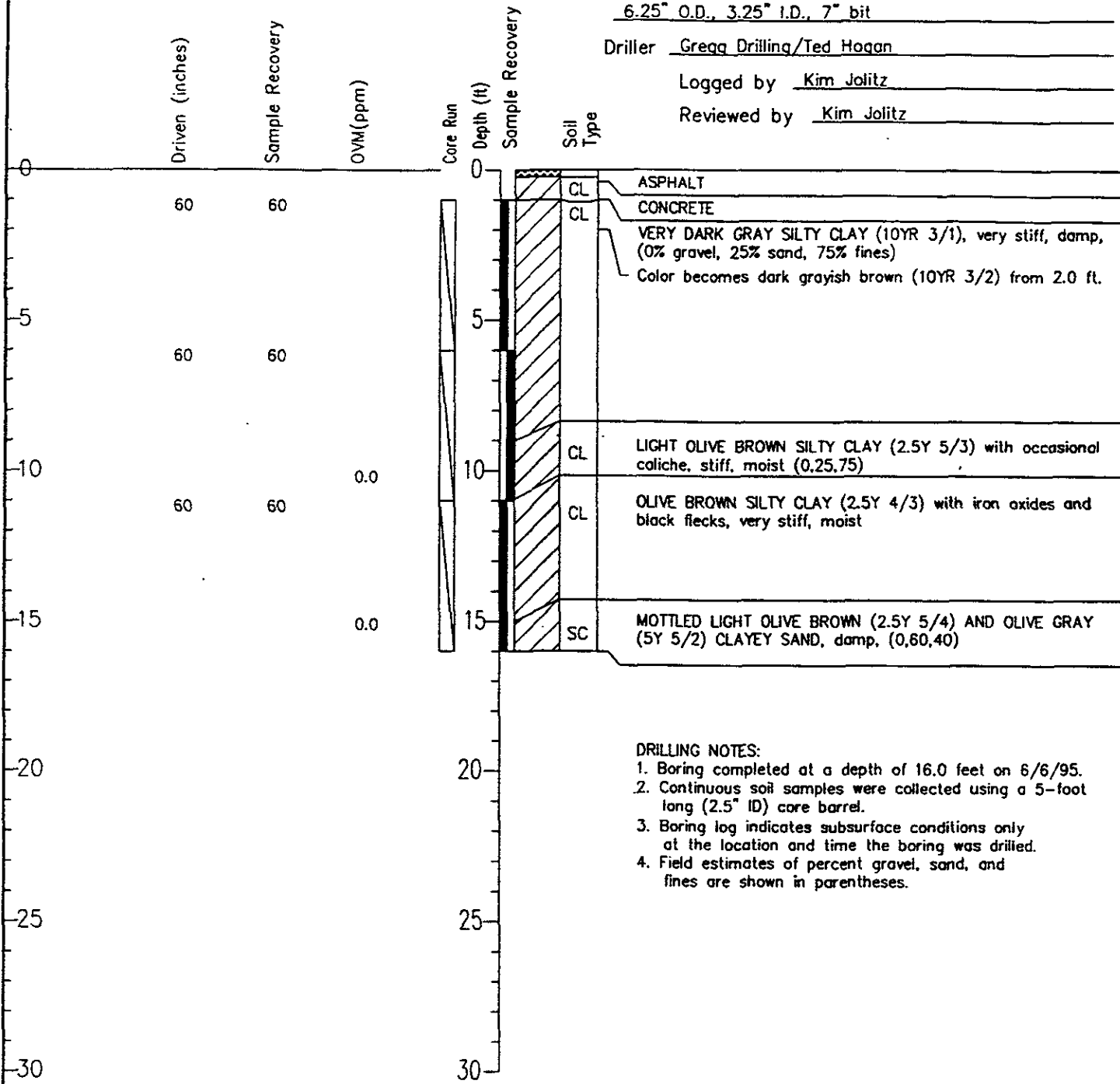
A-11

Surface Elev. N/A
 Coordinates See Site Plan
 Drill Date: Start 5/17/95 Finish 5/17/95
 Drill Method Hydraulic-driven core barrel inside
2 1/2-inch diameter rod; Custom designed drill rig (XD-1)
 Driller Precision Sampling, Inc. / Mike Polkinghorn
 Logged by Heidi Dieffenbach
 Reviewed by David Harnish



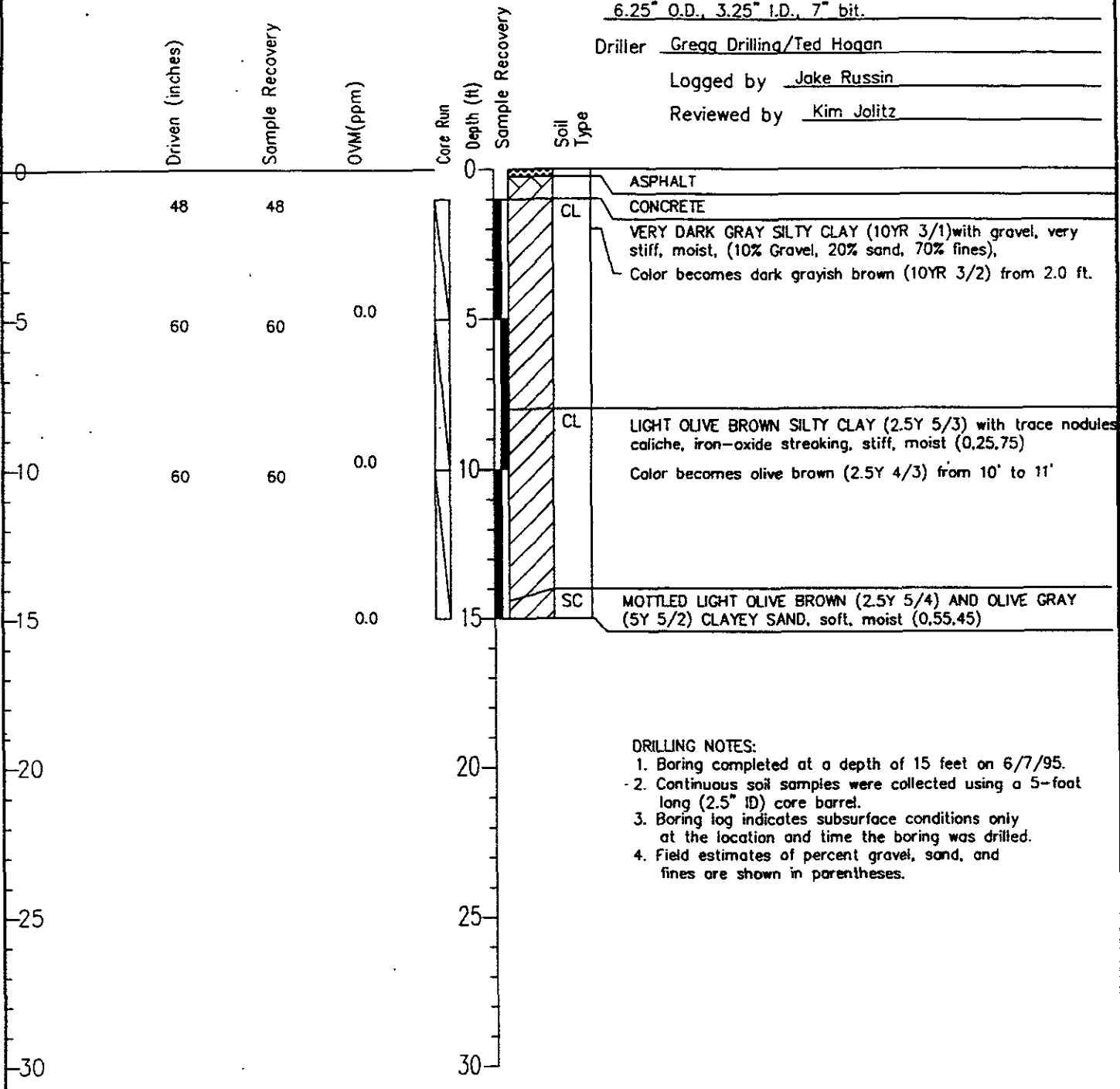
- DRILLING NOTES:**
- Boring completed at a depth of 13.0 feet on 5/17/95.
 - Soil samples were collected by driving a 1.875-inch diameter by 3-foot long sample barrel into undisturbed soil.
 - Once the boring was completed, a 1-inch diameter PVC well casing with 0.010-inch slotted screen was placed into the borehole. The screen was set from 3 to 13 feet.
 - Depth to water in temporary PVC casing measured at 5.8 feet below ground surface on 5/17/95.
 - A ground water grab sample was collected on 5/17/95.
 - Boring log indicates subsurface conditions only at the location and time the boring was drilled.
 - Field estimates of percent gravel, sand and fines are shown in parentheses.

Surface Elev. N/A
 Coordinates See Site Plan
 Drill Date: Start 6/6/95 Finish 6/6/95
 Drill Method Moblie B-53; Hollow-Stem Augers,
6.25" O.D., 3.25" I.D., 7" bit
 Driller Gregg Drilling/Ted Hogan
 Logged by Kim Jolitz
 Reviewed by Kim Jolitz



- DRILLING NOTES:**
- Boring completed at a depth of 16.0 feet on 6/6/95.
 - Continuous soil samples were collected using a 5-foot long (2.5" ID) core barrel.
 - Boring log indicates subsurface conditions only at the location and time the boring was drilled.
 - Field estimates of percent gravel, sand, and fines are shown in parentheses.

Surface Elev. N/A
 Coordinates N/A
 Drill Date: Start 6/7/95 Finish 6/7/95
 Drill Method Mobile B-53; Hollow-Stem Auger,
6.25" O.D., 3.25" I.D., 7" bit.
 Driller Gregg Drilling/Ted Hogan
 Logged by Jake Russin
 Reviewed by Kim Jolitz



- DRILLING NOTES:
1. Boring completed at a depth of 15 feet on 6/7/95.
 2. Continuous soil samples were collected using a 5-foot long (2.5" ID) core barrel.
 3. Boring log indicates subsurface conditions only at the location and time the boring was drilled.
 4. Field estimates of percent gravel, sand, and fines are shown in parentheses.

Surface Elev. N/A

Coordinates See Site Plan

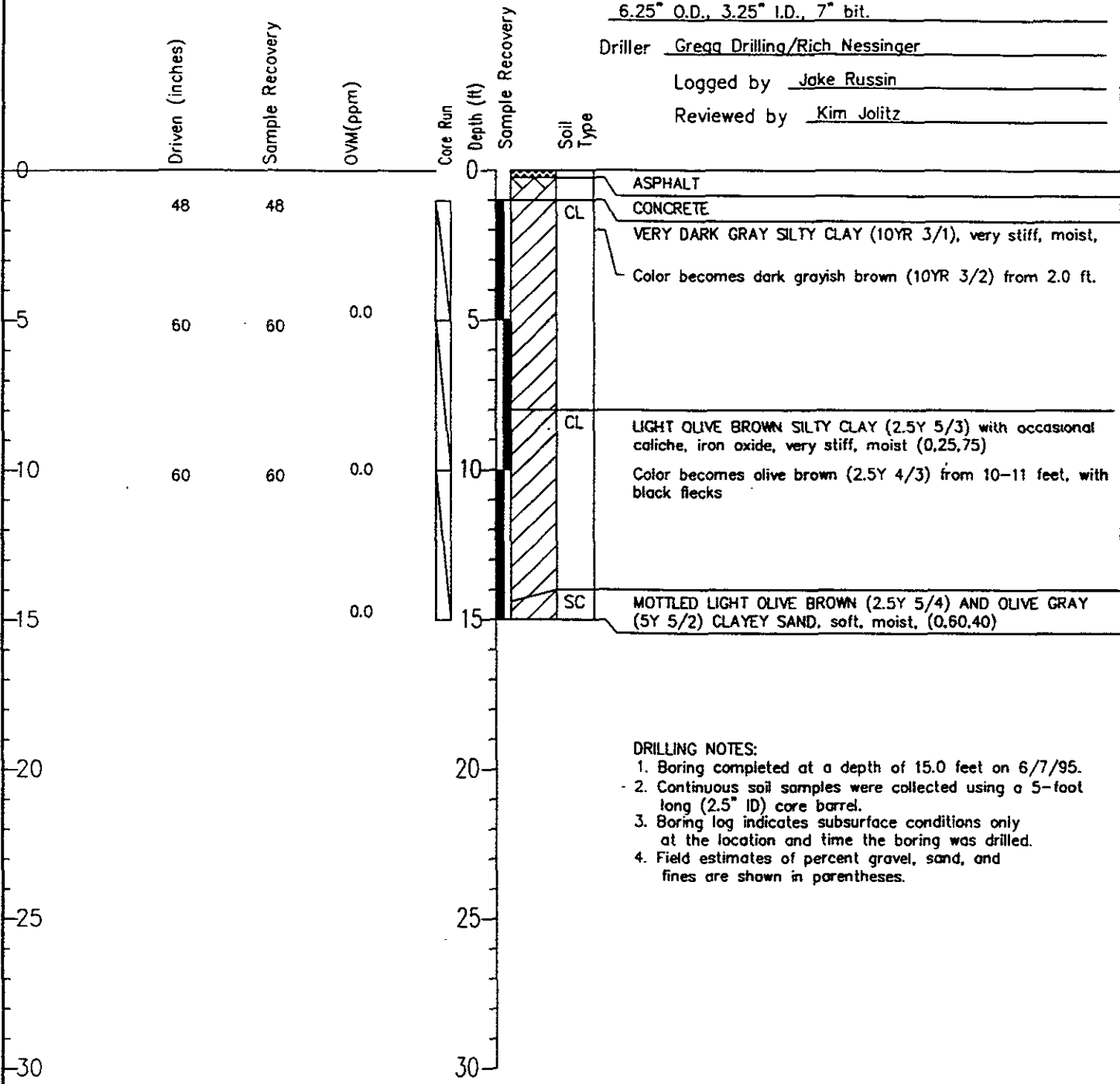
Drill Date: Start 6/7/95 Finish 6/7/95

Drill Method Mobile B-53; Hollow-Stem Auger,
6.25" O.D., 3.25" I.D., 7" bit.

Driller Gregg Drilling/Rich Nessinger

Logged by Jake Russin

Reviewed by Kim Jolitz



DRILLING NOTES:

1. Boring completed at a depth of 15.0 feet on 6/7/95.
2. Continuous soil samples were collected using a 5-foot long (2.5" ID) core barrel.
3. Boring log indicates subsurface conditions only at the location and time the boring was drilled.
4. Field estimates of percent gravel, sand, and fines are shown in parentheses.

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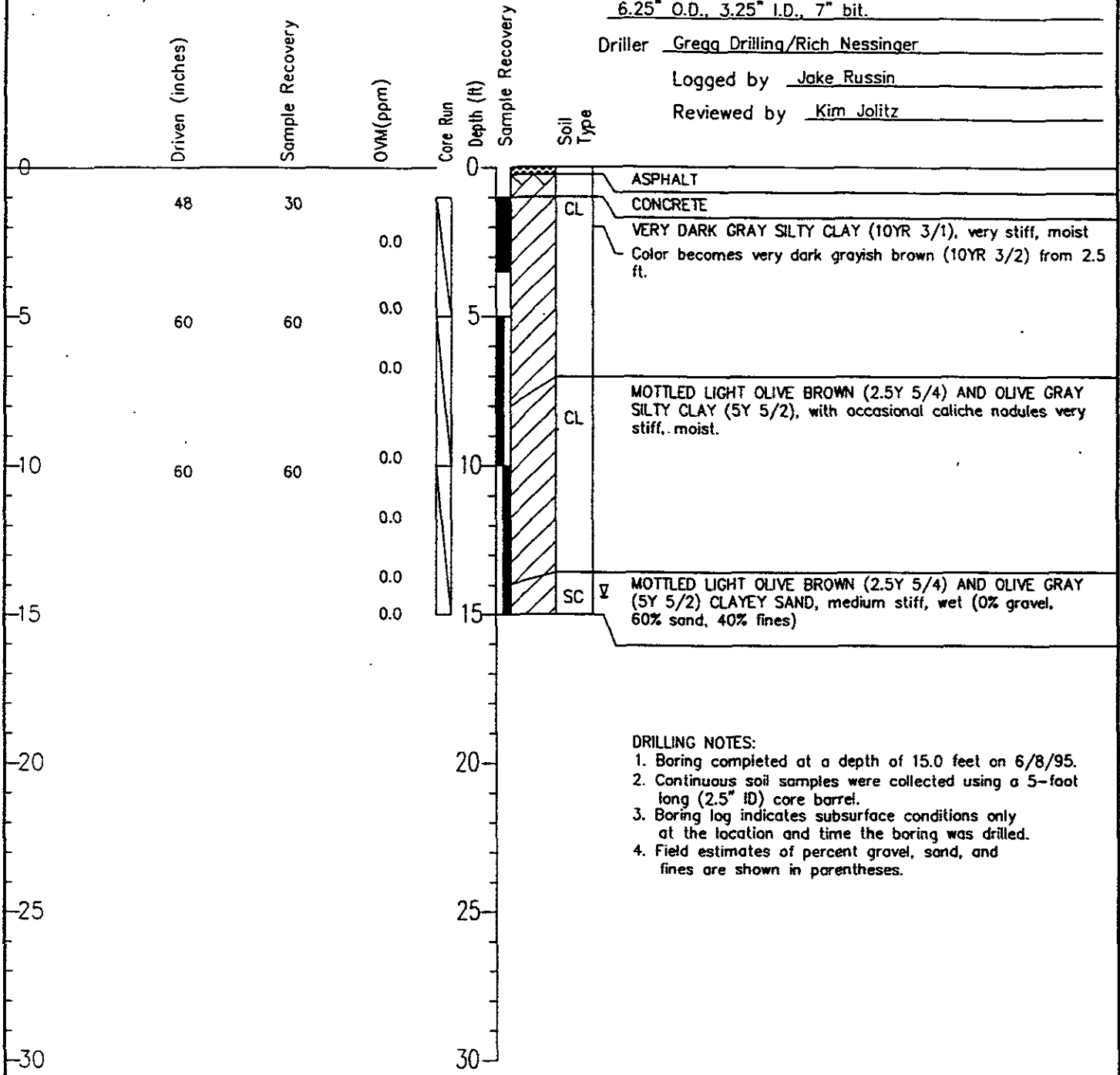
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FIGURE

B-15

A-15

Surface Elev. N/A
 Coordinates Refer to Site Plan
 Drill Date: Start 6/8/95 Finish 6/8/95
 Drill Method Mobile B-53; Hollow-Stem Auger
6.25" O.D., 3.25" I.D., 7" bit.
 Driller Gregg Drilling/Rich Nessinger
 Logged by Jake Russin
 Reviewed by Kim Jolitz



DRILLING NOTES:

1. Boring completed at a depth of 15.0 feet on 6/8/95.
2. Continuous soil samples were collected using a 5-foot long (2.5" ID) core barrel.
3. Boring log indicates subsurface conditions only at the location and time the boring was drilled.
4. Field estimates of percent gravel, sand, and fines are shown in parentheses.

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FIGURE

B-16

A-16

Surface Elev. N/A

Coordinates N/A

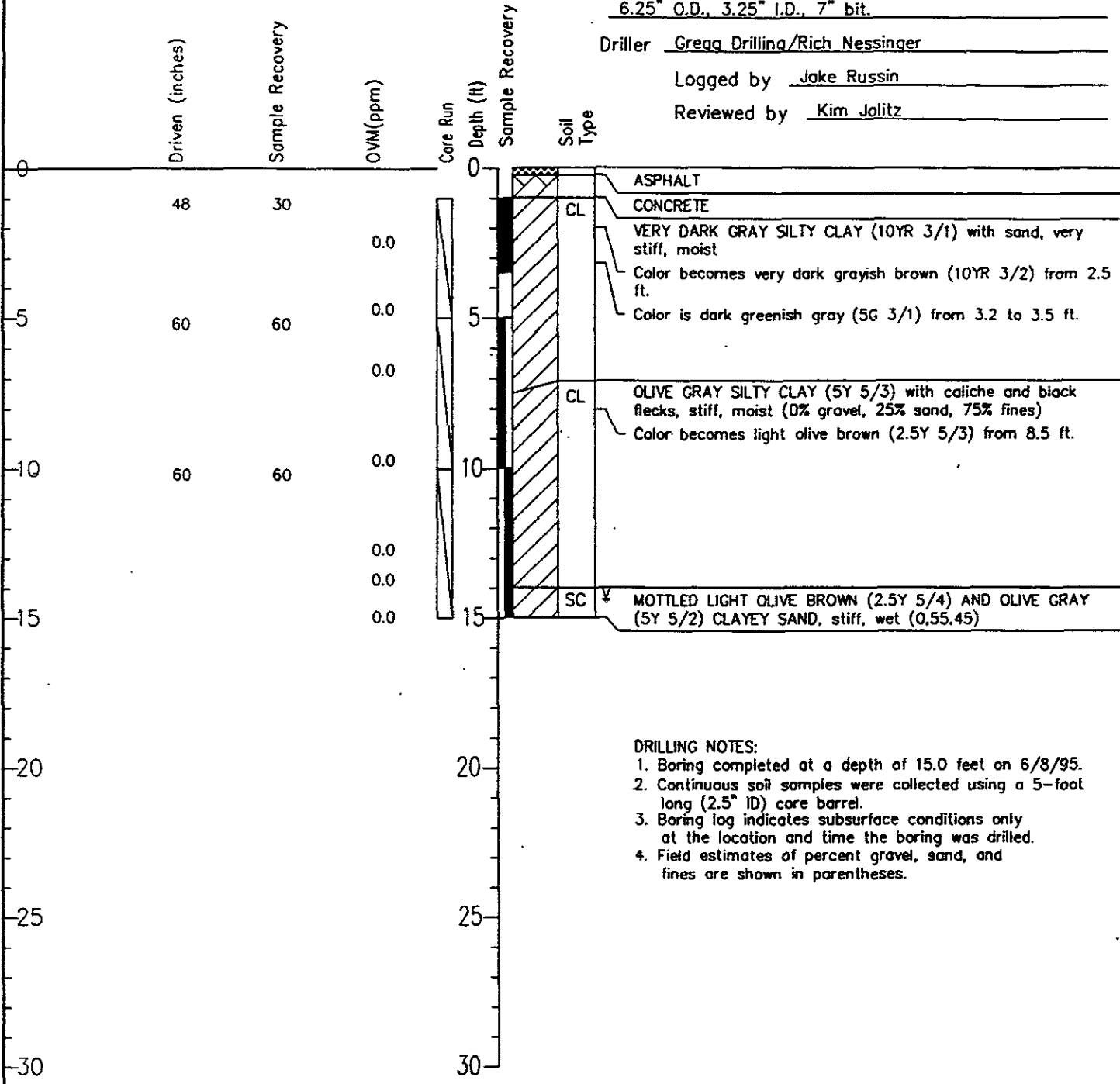
Drill Date: Start 6/8/95 Finish 6/8/95

Drill Method Mobile B-53; Hollow-Stem Auger,
6.25" O.D., 3.25" I.D., 7" bit.

Driller Gregg Drilling/Rich Nessinger

Logged by Jake Russin

Reviewed by Kim Jolitz



DRILLING NOTES:

1. Boring completed at a depth of 15.0 feet on 6/8/95.
2. Continuous soil samples were collected using a 5-foot long (2.5" ID) core barrel.
3. Boring log indicates subsurface conditions only at the location and time the boring was drilled.
4. Field estimates of percent gravel, sand, and fines are shown in parentheses.

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FIGURE

A-17

B-17

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ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G4

Project No.	10542	Drilling Technique	Geoprobe
Location	4343 San Pablo	PID Calibration	
Date Drilled	6/13/94	Field Geologist	George Pavlov
Drilling Co.	Pacific On-Site Svcs	Reg. Geologist	
Depth of Sample (ft)	USCS Symbols	Soil Description	
--1 -- --2 -- --3 -- --4 -- --5 --	CL SC	At 3' is sandy clay, black, slightly moist, moderately stiff, no odor; color changes to moderate yellowish brown. Clayey sand, medium-grained, well sorted, moderate olive, moist, very friable. No odor.	
--6 -- --7 -- --8 -- --9 -- --10	SP SW	Sand, medium-grained with minor clay and some granules, well sorted, moderate olive, moist, loose to very friable. No odor. Sand, coarse to very coarse with granules; moderate traces of clay, well sorted, damp to saturated, loose to very friable. No odor.	
--11 -- --12 -- --13 -- --14 -- --15	GW	Granules with sand and clay; well sorted, moderate yellowish brown, saturated, loose.	
--16 -- --17 -- --18 -- --19 -- --20		End of boring at 13' GW encountered at 9.5' Boring abandoned with bentonite.	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G5

Project No. 10542		Drilling Technique Geoprobe	
Location 4343 San Pablo		PID Calibration	
Date Drilled 6/15/94		Field Geologist	
Drilling Co. Pacific On-Site Svcs		Reg. Geologist George Pavlov	
Depth of Sample (ft)	USCS Symbols	Soil Description	
--1 -- --2 -- --3 -- --4	ML	Clayey silt, black, moist, soft No odor.	
--5 --	ML	Same as above with some pebbles. No odor.	
--6 -- --7 -- --8	CL	Silty clay, dark olive, moist, stiff. No odor.	
--9 -- --10	CL	Same as above; color changes to moderate gray, damp, strong odor like paint thinner.	
--11 -- --12 -- --13 -- --14	SC	Clayey sand, fine-grained, well sorted, moderate olive, saturated, soft, strong odor.	
--15	CL	Sandy clay, moderate olive, mottled with moderate gray, saturated, soft, strong odor	
--16 -- --17 -- --18 -- --19 -- --20	CL	Silty clay, moderate yellowish granules mottled with moderate gray, saturated, moderately stiff, odor. End of boring at 20' GW encountered at 10' Boring abandoned with bentonite	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G6

Project No. 10542		Drilling Technique	
Location 4343 San Pablo		PID Calibration	
Date Drilled 6/13/94		Field Geologist	
Drilling Co. Pacific On-Site Svcs		Reg. Geologist	
		Geoprobe	
		George Pavlov	
Depth of Sample (ft)	USCS Symbols	Soil Description	
--1 -- --2 -- --3 -- --4 -- --5 --	CL	Sandy clay with minor granules, black, slightly moist, stiff. No odor.	
--6 -- --7 -- --8 -- --9 -- --10	CL/SC SC CL/SC	Sandy clay to clayey sand, moderate yellowish brown, damp, very soft. Clayey sand, medium-grained, moderate yellowish brown, nearly saturated, very friable. No odor. Sandy clay to clayey sand, moderate yellowish brown, saturated, very soft	
--11 -- --12 -- --13 -- --14 -- --15	SC	Clayey sand, medium-grained, well sorted, moderate yellowish brown, saturated, very friable. No odor.	
--16 -- --17 -- --18 -- --19 -- --20		End of boring at 13' GW encountered at 9' Boring abandoned with bentonite.	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G7

Project No.		10542	Drilling Technique	Geoprobe
Location		4343 San Pablo	PID Calibration	
Date Drilled		6/13/94	Field Geologist	George Pavlov
Drilling Co.		Pacific On-Site Svcs	Reg. Geologist	
Depth of Sample (ft)	USCS Symbols	Soil Description		
--1 -- --2 -- --3 -- --4 -- --5 --	CL	Silty clay, dark olive, slightly moist, very stiff, no odor, minor granules		
--6 -- --7 -- --8 -- --9 -- --10	CL	Same as above with slight increase of the moisture: no odor.		
--11 -- --12 -- --13 -- --14 -- --15	SC SC CL	Clayey sand, coarse with granules and some silt, well sorted, moderate yellowish, mottled, saturated, very friable, no odor. Clayey sand, medium-grained, well sorted, moderate yellow, saturated, friable. No odor. Silty clay, moderate olive, mottled, saturated moderately stiff. No odor.		
--16 -- --17 -- --18 -- --19 -- --20		End of boring at 16 GW encountered at 11 Boring backfilled with bentonite		

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G8

Project No. 10542		Drilling Technique Geoprobe	
Location 4343 San Pablo		PID Calibration	
Date Drilled 6/13/94		Field Geologist	
Drilling Co. Pacific On-Site Svcs		Reg. Geologist George Pavlov	
Depth of Sample (ft)	USCS Symbols	Soil Description	
--1 -- --2 -- --3 -- --4 -- --5 --	CL	Silty clay, black, moist, moderately stiff. No odor.	
--6 -- --7 -- --8 -- --9 -- --10	CL	Silty clay with minor granules, dark olive, moist, stiff, odor.	
--11 -- --12 -- --13 -- --14 -- --15	GP	Same as above: stronger odor	
--16 -- --17 -- --18 -- --19 -- --20		Granules with coarse to very coarse sand and some pebbles, well sorted, moderate olive, saturated, loose strong odor.	
		End of boring at 13 GW encountered at 10' Boring abandoned with bentonite	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G9

Project No. 10542		Drilling Technique	
Location 4343 San Pablo		PID Calibration	
Date Drilled 6/15/94		Field Geologist	
Drilling Co. Pacific On-Site Svcs		Reg. Geologist	
		Geoprobe	
		George Pavlov	
Depth of Sample (ft)	USCS Symbols	Soil Description	
--1 -- --2 -- --3 -- --4 -- --5 --	ML CL	Clayey silt, black, moist, stiff. No odor. Silty clay, dark olive, moist, moderately soft, odor.	
--6 -- --7 -- --8 -- --9 -- --10	CL CL	Same with minor granules and lighter color; strong odor of paint thinner. Strong odor of paint thinner.	
--11 -- --12 -- --13 -- --14 -- --15	CL CL	Clay with minor silt, moderate greenish yellow, saturated, moderately stiff, strong odor. Sandy clay, moderate greenish yellow mottled with moderate olive brown, saturated, soft, odor	
--16 -- --17 -- --18 -- --19 -- --20	SW	Sand, coarse to very coarse-grained with granules and small pebbles, minor clay, well sorted, moderate yellowish, green, saturated, loose, odor. End of boring at 20' GW encountered at 10.5' Boring abandoned with bentonite.	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G10

Project No. Location Date Drilled Drilling Co.		10542 4343 San Pablo 6/15/94 Pacific On-Site Svcs	Drilling Technique PID Calibration Field Geologist Reg. Geologist	Geoprobe George Pavlov
Depth of Sample (ft)	USCS Symbols	Soil Description		
--1 -- --2 -- --3 -- --4 -- --5 --	ML	Clayey silt to silty clay, black, moist, very stiff. No odor.		
--6 -- --7 -- --8 -- --9 -- --10	CL CL	Silty clay, dark olive mottled with dark yellowish brown, moist, stiff. No odor. Clay with minor silt, dark olive to dark brown, moist, stiff. No odor.		
--11 -- --12 -- --13 -- --14 -- --15	CL CL	Sandy clay, light olive, saturated, moderately stiff. No odor. Color changes to moderate greenish gray, odor.		
--16 -- --17 -- --18 -- --19 -- --20	SW	Clayey sand, medium to coarse-grained with granules, well sorted, moderate olive mottled with moderate gray, saturated, very friable, odor.		
		End of boring at 19' GW encountered at 11' Boring abandoned with bentonite.		

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G11

Project No.	10542	Drilling Technique	Geoprobe
Location	4343 San Pablo	PID Calibration	
Date Drilled	6/15/94	Field Geologist	George Pavlov
Drilling Co.	Pacific On-Site Svcs	Reg. Geologist	
Depth of Sample (ft)	USCS Symbols	Soil Description	
--1 -- --2 -- --3 -- --4 -- --5 --	CL	Silty clay with some granules, moist, stiff. No odor.	
--6 -- --7 -- --8 -- --9 -- --10	CL	Silty clay, dark olive, moist, stiff. No odor.	
--11 -- --12 -- --13 -- --14 -- --15	SW CL	12': clayey sand, coarse to very coarse with granules; well sorted, light olive mottled with moderate yellowish brown, damp, very friable. No odor.	
--16 -- --17 -- --18 -- --19 -- --20	CL	Sandy clay with minor granules, moderate greenish gray, saturated, very soft, odor	
		Silty clay with minor fine sand, moderate to light yellowish brown, mottled with moderate gray, saturated, moist, stiff. No odor.	
		End of boring at 17' GW encountered at 13.5' Boring abandoned with bentonite.	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G12

Project No.	10542	Drilling Technique	Geoprobe
Location	4343 San Pablo	PID Calibration	
Date Drilled	6/13/94	Field Geologist	George Pavlov
Drilling Co.	Pacific On-Site Svcs	Reg. Geologist	

Depth of Sample (ft)	USCS Symbols	Soil Description
--1 -- --2 -- --3 -- --4 -- --5 --	CL	Silty clay with some sand and granules, black, moist. No odor.
--6 -- --7 -- --8 -- --9 -- --10	CL CL	Silty clay, dark olive, damp, moderately soft, faint odor. Changes to silty clay, moderate to light yellowish brown with greenish gray stains, damp, stiff, odor.
--11 -- --12 -- --13 -- --14 -- --15	CL	Moisture increases @ 13'.
--16 -- --17 -- --18 -- --19 -- --20		End of boring at 13' No GW encountered Boring abandoned with bentonite.

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G13

Project No. Location Date Drilled Drilling Co.		10542 4343 San Pablo 8/15/94 Pacific On-Site Svcs	Drilling Technique PID Calibration Field Geologist Reg. Geologist	Geoprobe George Pavlov
Depth of Sample (ft)	USCS Symbols	Soil Description		
--1 -- --2 -- --3 -- --4 -- --5 --	CL	Silty clay, dark olive, moist, stiff. No odor.		
--6 -- --7 -- --8 -- --9 -- --10	CL	Down to 10' is the same, with some granules.		
--11 -- --12 -- --13 -- --14 -- --15	ML	Silt with minor clay, fine sand, and some granules, light olive with yellowish color alteration, saturated, friable, faint odor.		
--16 -- --17 -- --18 -- --19 -- --20	CL	Sandy clay, moderate olive, saturated, soft. No odor. End of boring at 17' GW encountered at 11' Boring abandoned with bentonite.		

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G14

Project No. 10542		Drilling Technique Geoprobe	
Location 4343 San Pablo		PID Calibration	
Date Drilled 6/14/94		Field Geologist George Pavlov	
Drilling Co. Pacific On-Site Svcs		Reg. Geologist	
Depth of Sample (ft)	USCS Symbols	Soil Description	
--1 -- --2 -- --3 -- --4 -- --5 --	CL	Silty clay with some sand, moderate olive, moist, moderately soft. No odor.	
--6 -- --7 -- --8 -- --9 -- --10	CL CL CL CL	Silty clay, dark olive, moist, moderately stiff. No odor. As above, but damp to nearly saturated Color is lighter and some granules appear Silty, along with sand and granules, moderate to light olive mottled with sandy yellow, incohesion, saturated, soft No odor	
--11 -- --12 -- --13 -- --14 -- --15	CL	Silty clay with minor fine sand, moderate brown, saturated, soft. No odor.	
--16 -- --17 -- --18 -- --19 -- --20		End of boring at 13' GW encountered at 9' Boring abandoned with bentonite.	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G15

Project No. 10542		Drilling Technique	Geoprobe
Location 4343 San Pablo		PID Calibration	
Date Drilled 6/14/94		Field Geologist	George Pavlov
Drilling Co. Pacific On-Site Svcs		Reg. Geologist	
Depth of Sample (ft)	USCS Symbols	Soil Description	
--1 -- --2 -- --3 -- --4 -- --5 --	CL/ML	Silty clay to clayey silt, dark olive mottled with dark brown, moist, friable. No odor. Some granules appear at 3.5'.	
--6 -- --7 -- --8 -- --9 -- --10	CL CL	Silty clay, dark olive mottled with dark brown, damp, stiff. No odor. Silty clay with minor granules, light olive, damp, stiff.	
--11 -- --12 -- --13 -- --14 -- --15	SW CL	Clayey sand, medium to coarse with granules, well sorted, moderate olive brown, saturated, very friable. No odor. Sandy clay, moderate olive, saturated, very soft. No odor.	
--16 -- --17 -- --18 -- --19 -- --20		End of boring at 14' GW encountered at 11' Boring abandoned with bentonite.	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G16

Project No. Location Date Drilled Drilling Co.		10542 4343 San Pablo 6/14/94 Pacific On-Site Svcs	Drilling Technique PID Calibration Field Geologist Reg. Geologist	Geoprobe George Pavlov
Depth of Sample (ft)	USCS Symbols	Soil Description		
--1 -- --2 -- --3 -- --4 -- --5 --	CL	Silty clay, moderate to dark olive, moist, moderately stiff. No odor.		
--6 -- --7 -- --8 -- --9 -- --10	CL SP	Changes to dark yellowish brown Sandy clay with granules, moderate olive mottled with moderate yellowish brown, moist to damp, moderately stiff. Clayey sand, coarse to very coarse with granules, well sorted, dark yellowish brown, damp, very friable, odor.		
--11 -- --12 -- --13 -- --14 -- --15	SP CL	Clayey sand, fine-grained, well sorted, moderate olive mottled with moderate yellow, saturated, moderate stiff, odor Silty clay with minor fine sand, moderate yellow, saturated, soft		
--16 -- --17 -- --18 -- --19 -- --20		End of boring at 13' GW encountered at 11' Boring abandoned with bentonite.		

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G17

Project No. 10542		Drilling Technique Geoprobe	
Location 4343 San Pablo		PID Calibration	
Date Drilled 6/14/94		Field Geologist	
Drilling Co. Pacific On-Site Svcs		Reg. Geologist George Pavlov	
Depth of Sample (ft)	USCS Symbols	Soil Description	
--1 -- --2 -- --3 -- --4 -- --5 --	ML	Clayey silt, dark olive mottled with dark brown, very little moisture, friable. No odor.	
--6 -- --7 -- --8 -- --9 -- --10	CL	Silty clay, dark olive, moist, stiff, odor.	
--11 -- --12 -- --13 -- --14 -- --15	CL	Silty clay with some fine-grained sand, moderate to light olive mottled with light yellow, saturated, soft faint odor	
--16 -- --17 -- --18 -- --19 -- --20	CL	Same as above.	
		End of boring at 17' GW encountered at 12' Boring abandoned with bentonite	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G18

Project No. 10542		Drilling Technique Geoprobe	
Location 4343 San Pablo		PID Calibration	
Date Drilled 6/14/94		Field Geologist George Pavlov	
Drilling Co. Pacific On-Site Svcs		Reg. Geologist	
Depth of Sample (ft)	USCS Symbols	Soil Description	
--1 -- --2 -- --3 -- --4 -- --5 --	SP CL	Clayey sand, fine-grained, well sorted, moderate yellowish brown, moist to very friable. No odor.	
--6 -- --7 -- --8 -- --9 -- --10	CL CL	Color changes to moderate olive.	
--11 -- --12 -- --13 -- --14 -- --15			
--16 -- --17 -- --18 -- --19 -- --20		End of boring at 13' GW encountered at 9' Boring abandoned with bentonite	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G19

Project No. 10542		Drilling Technique	
Location 4343 San Pablo		PID Calibration	
Date Drilled 6/14/94		Field Geologist	
Drilling Co. Pacific On-Site Svcs		Reg. Geologist	
		Geoprobe	
		George Pavlov	
Depth of Sample (ft)	USCS Symbols	Soil Description	
--1 -- --2 -- --3 -- --4 -- --5 --	ML	Clayey silt, dark olive to black, dry & friable. No odor.	
--6 -- --7 -- --8 -- --9 -- --10	ML GW	Clayey silt with minor fine sand, moderate olive, dry, friable. No odor.	
--6 -- --7 -- --8 -- --9 -- --10	SP GW	Clayey sand, fine-grained, well sorted, moderate olive, moist, very friable. No odor.	
--8 -- --9 -- --10	GW	Gravelly sand, coarse to very coarse, with granules and pebbles, well sorted, moderate olive, saturated, loose.	
--11 -- --12 -- --13 -- --14 -- --15	GW CL GW	Very coarse sand with granules and pebbles, ill sorted, moderate olive, saturated, loose. No odor	
--13 -- --14 -- --15	CL	Silty clay, moderate olive, saturated.	
--14 -- --15	GW	Silty clay, moderate olive, saturated gravelly sand with pebbles, well sorted, moderate olive, saturated loose No odor	
--16 -- --17 -- --18 -- --19 -- --20		End of boring at 13' GW encountered at 8.5' - Boring abandoned with bentonite.	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G20

Project No.		10542	Drilling Technique	Geoprobe
Location		4343 San Pablo	PID Calibration	
Date Drilled		6/14/94	Field Geologist	George Pavlov
Drilling Co.		Pacific On-Site Svcs	Reg. Geologist	
Depth of Sample (ft)	USCS Symbols	Soil Description		
--1 -- --2 -- --3 -- --4 -- --5 --	SC	Clayey sand, fine-grained, well sorted, moderate olive, moist, very friable. No odor		
--6 -- --7 -- --8 -- --9 -- --10	SC	Same, with increased clay content Saturated at 8.5' No odor.		
--11 -- --12 -- --13 -- --14 -- --15	SC	Clayey sand, coarse to very coarse with some granules, well sorted, moderate olive, saturated, loose. No odor		
--16 -- --17 -- --18 -- --19 -- --20		End of boring at 13 GW encountered at 8.5' Boring abandoned with bentonite		

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G21

Project No.	10542	Drilling Technique	Geoprobe
Location	4343 San Pablo	PID Calibration	
Date Drilled	6/14/94	Field Geologist	George Pavlov
Drilling Co.	Pacific On-Site Svcs	Reg. Geologist	
Depth of Sample (ft)	USCS Symbols	Soil Description	
--1 -- --2 -- --3 -- --4 -- --5 --	CL CL	Silty clay with minor granules. black. moist. soft 5.5': changes to moderate olive. damp. soft. odor.	
--6 -- --7 -- --8 -- --9 -- --10	CL	Becomes moderate gray mottled with moderate yellowish brown. damp. soft. odor.	
--11 -- --12 -- --13 -- --14 -- --15	SW CL	Coarse sand and granules with minor clay. well sorted. moderate olive. saturated. very friable. odor. Silty clay with some granules. moderate olive. saturated. stiff. odor.	
--16 -- --17 -- --18 -- --19 -- --20	SW CL	Gravelly sand. odor. Silty clay. moderate olive mottled with moderate yellowish brown. saturated. No odor. End of boring at 21' GW encountered at 9.5' Boring abandoned with bentonite.	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G22

Project No. 10542		Drilling Technique Geoprobe	
Location 4343 San Pablo		PID Calibration	
Date Drilled 6/16/94		Field Geologist	
Drilling Co. Pacific On-Site Svcs		Reg. Geologist George Pavlov	
Depth of Sample (ft)	USCS Symbols	Soil Description	
--1 -- --2 -- --3 -- --4 -- --5 --	ML CL	Clayey silt, black, moist, friable. No odor Clayey sand, fine-grained with minor granules, well sorted, moderate yellowish brown mottled with moderate olive brown, moist, friable No odor.	
--6 -- --7 -- --8 -- --9 -- --10	 CL	 Clay with minor silt, light olive gray, damp, moderately soft. No odor.	
--11 -- --12 -- --13 -- --14 -- --15	 CL	 Sandy clay, moderate to light yellowish brown, mottled with moderate grayish olive, damp, stiff, faint odor.	
--16 -- --17 -- --18 -- --19 -- --20		End of boring at 16' No GW encountered Boring abandoned with bentonite	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G23

Project No.	10542	Drilling Technique	Geoprobe
Location	4343 San Pablo	PID Calibration	
Date Drilled	6/16/94	Field Geologist	George Pavlov
Drilling Co.	Pacific On-Site Svcs	Reg. Geologist	
Depth of Sample (ft)	USCS Symbols	Soil Description	
-1 - -2 - -3 - -4 - -5 -	ML	Clayey silt, black, slightly moist, friable. No odor.	
-6 - -7 - -8 - -9 - -10	CL	Sandy clay, moderate to dark olive mottled with moderate yellowish brown, moist, stiff. No odor.	
-11 - -12 - -13 - -14 - -15	CL CL CL	Clay, light olive, saturated, moderately soft. No odor. Sandy clay, moderate grayish green, saturated, soft, faint odor. Silty clay with some fine sand, moderate yellowish brown mottled with moderate grayish green, damp, stiff. No odor.	
-16 - -17 - -18 - -19 - -20		End of boring at 16' GW encountered at 12' Boring abandoned with bentonite.	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G24

Project No.	10542	Drilling Technique	Geoprobe
Location	4343 San Pablo	PID Calibration	
Date Drilled	8/16/94	Field Geologist	George Pavlov
Drilling Co.	Pacific On-Site Svcs	Reg. Geologist	

Depth of Sample (ft)	USCS -Symbols	Soil Description
-1 -- -2 -- -3 -- -4 -- -5 --	CL	Fill composed of clayey silt, sand, granules, and pebbles. No odor. Silty clay with minor fine sand, moderate olive mottled with moderate yellowish brown, moist, moderately stiff. No odor.
--6 -- -7 -- -8 -- -9 -- -10	CL	Clay with traces of silt, dark grayish brown, damp, stiff. No odor.
--11 -- -12 -- -13 -- -14 -- -15	CL	Silty clay, light olive, saturated, moderately soft. No odor.
--16 -- -17 -- -18 -- -19 -- -20	SC	Clayey sand, medium-grained with granules, well sorted, moderate greenish gray, saturated, loose to very friable, strong odor.
	SC	Color changes to moderate olive brown; no odor.
	CL	Silty clay, moderate olive mottled with moderate gray, saturated, stiff. No odor.
		End of boring at 20' GW encountered at 18' Boring abandoned with bentonite.

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G25

Project No. 10542		Drilling Technique Geoprobe	
Location 4343 San Pablo		PID Calibration	
Date Drilled 6/16/94		Field Geologist	
Drilling Co. Pacific On-Site Svcs		Reg. Geologist George Pavlov	
Depth of Sample (ft)	USCS Symbols	Soil Description	
-1 -- -2 -- -3 -- -4 -- -5 --	ML ML	Top 3' is on fill composed of gravel and bricks. Clayey silt, black, moist, very friable, some odor appears at 4' depth. The color changes to very dark olive. Clayey silt with some fine sand, very dark olive, damp, soft, odor.	
-6 -- -7 -- -8 -- -9 -- -10	CL	Silty clay with some granules, moderate brownish gray, damp, moderately soft, odor.	
-11 -- -12 -- -13 -- -14 -- -15	CL CL	Silty clay, moderate grayish green, saturated, soft, strong odor. Same as above. Color is mottled with moderate yellowish brown. Odor	
-16 -- -17 -- -18 -- -19 -- -20	SW SW	Clayey sand, medium-grained with pebbles and granules, ill sorted, moderate grayish green, saturated, friable, odor. Clayey sand with granules, ill sorted, moderate brownish green, saturated, soft, strong odor End of boring at 20' GW encountered at 18' Boring abandoned with bentonite.	

ENVIROPRO, INC.
Standard Brands - Emeryville
Log of Boring G26

Project No. 10542		Drilling Technique Geoprobe	
Location 4343 San Pablo		PID Calibration	
Date Drilled 8/15/94		Field Geologist	
Drilling Co. Pacific On-Site Svcs		Reg. Geologist George Pavlov	
Depth of Sample (ft)	USCS Symbols	Soil Description	
--1 -- --2 -- --3 -- --4 -- --5 --	ML	Clayey silt, black, moist friable, odor at 4'.	
--6 -- --7 -- --8 -- --9 -- --10	SC	Clayey sand, very fine-grained, well sorted, damp, very friable. Strong odor. At 8' is saturated.	
	SC	Clayey sand, fine to medium-grained, well sorted, dark olive green, saturated, very friable, odor.	
--11 -- --12 -- --13 -- --14 -- --15			
--16 -- --17 -- --18 -- --19 -- --20		End of boring at 18' GW encountered at 8' Boring abandoned with bentonite.	

APPENDIX F
HEALTH RISK ASSESSMENT

**TIER II RISK ASSESSMENT
FOR STANDARD BRAND PAINTS**

Prepared by:
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1.0 HEALTH RISK ASSESSMENT

Both the USEPA Office of Underground Storage Tank (1995) and SWRCB guidance (SWRCB, 1995) indicate that the health risks associated with petroleum fuel in soil and ground water should be evaluated and considered during remedial decision making. As part of the environmental assessment of the Site, a health risk assessment has been performed to quantify the nature of possible health risks, if any, and to calculate Site-Specific Target Levels (SSTLs) for contaminants at the Site. The health risk assessment was performed in accordance with the American Society for Testing Materials (ASTM) standard "Risk-Based Corrective Action Applied at Petroleum Release Sites" (RBCA, 1995). The RBCA standard has been approved and is recommended by the Alameda County Department of Environmental Health (ACDEH) for assessing potential threats to human health from petroleum hydrocarbons in the environment. The goal of the RBCA standard is to determine the concentrations of petroleum hydrocarbons in soil and groundwater that do not pose unacceptable risks for complete and potentially complete exposure pathways.

1.1 Objectives

The objectives of the health risk assessment is to identify and evaluate the potential impacts of chemicals at a site under existing conditions and without remediation, and to determine the concentrations of chemicals that can remain in soil and/or ground water and still adequately protect public health and the environment.

In accordance with the RBCA standard, this risk assessment involves five important steps:

1. First, chemicals of interest (COIs) are identified in soil and groundwater from the Site. The selection of COIs is based on physical properties (e.g. volatility and solubility), toxicity to humans, and the potential for direct or indirect exposures (Section 3.5).
2. Second, exposure pathways are identified at the Site. The potential for an individual to be exposed to a chemical is the result of the activities of the individual, the distribution of the chemical in soil and groundwater, the conditions of the Site (e.g. presence of a drinking water well), and the fate and transport of the chemical in the environment. When an individual is in contact with a chemical, the exposure pathway is referred to as "complete." A "potentially complete" exposure pathway is one that may not actually occur but can reasonably be expected to exist if conditions change (e.g. future construction at the Site). An "incomplete pathway" is an exposure pathway that does not occur or can not reasonably be expected to occur (e.g. the inhalation pathway of vapors from residual crude oil or other heavy hydrocarbons in soil below ground surface). Generally, incomplete pathways are not evaluated quantitatively in a risk assessment.

3. Third, an individual's daily dose of a COI is calculated for each complete or potentially complete exposure pathway. This involves calculating the Reasonable Maximum Exposure (RME) and the average (or typical) COI concentrations that an individual might be exposed to at the Site. Assumptions are made regarding the frequency and magnitude of an individual's potential contact with each COI.
4. Fourth, the toxicity of each COI is identified. Health end-points of concern are either carcinogenic or non-carcinogenic. The U.S. Environmental Protection Agency (USEPA) recommends toxicity factors to be used in health risk assessments. Typically, risk assessments are based on the theory that exposure to carcinogenic chemicals result in an increase in the probability of an individual developing cancer over a lifetime (i.e. there is no exposure threshold). The potency of a carcinogen is expressed as a slope factor (SF). Increases in cancer risks are regulated to levels that cannot be readily detected in the general population, e.g. 1 to 100 additional cancers within a population of 1,000,000 or 1×10^{-6} to 1×10^{-4} . Noncarcinogenic chemicals are believed to have thresholds and their toxicity is expressed as a reference dose or RfD (i.e. a dose below which adverse health effects will not occur). For this health risk assessment, SSTLs for each COI are calculated based on a target cancer risk of 1×10^{-5} , and a noncarcinogenic hazard index of 1.
5. Finally, carcinogenic and noncarcinogenic SSTLs in soil and groundwater are compared to measured soil and groundwater concentrations at the Site. If the measured COI concentrations are less than their respective SSTLs, then COI concentrations at the Site do not pose unacceptable risks.

2.0 EXPOSURE PATHWAYS

The RBCA (ASTM, 1996) Tier II protocol has been used to calculate SSTLs for the Site. In accordance with the Tier II protocol, Site-specific conditions were reviewed to determine the number of potentially complete exposure pathways. For example, the area around and including the Site is zoned for medical use, but will most likely be developed for commercial use. In addition, there are no plans to remove the existing building at the Site. There is presently a 550 gallon underground storage tank (UST) underneath the northern corner of the Site (Figure 2). However, the UST removal has been approved and is scheduled for late June, 1997. The Site also has a thin layer of floating petroleum hydrocarbons in groundwater. A drinking water well survey revealed that the ground water beneath the Site is not presently used as a drinking water source. Based on surrounding land use, it is unlikely that groundwater will be used as a potable water source in the future. The site is completely paved with asphalt. The existing floor of the only building on the Site is standard concrete foundation thickness.

Based on current conditions at the Site, four Tier II exposure pathways/scenarios are considered complete, and two exposure pathways are considered potentially complete. The four complete exposure pathways are:

- (a) inhalation of vapors emitted into indoor air from impacted soil;
- (b) inhalation of vapors emitted into outdoor air from impacted soil;
- (c) inhalation of vapors emitted into indoor air from impacted groundwater; and
- (d) inhalation of vapors emitted into outdoor air from impacted groundwater.

Future construction activities at the Site may result in two potentially complete exposure pathways:

- (a) dermal contact and ingestion of soil; and
- (b) inhalation of soil particulate.

The inhalation of vapors emitted into indoor air from both groundwater and soil sources is considered a complete exposure pathway since an office/warehouse building is located on the Site. Although the present floor to ceiling height is approximately 20 feet, the health risk assessment conservatively adopted a floor to ceiling height of 8 feet to account for the possibility that new buildings with a lower ceiling height could be constructed adjacent to the existing building (Table B).

Although the inhalation of vapors emitted into outdoor air from groundwater and soil sources is evaluated, the indoor air pathway is a much greater contributor to the final SSTLs. Therefore, if the indoor air pathway does not pose unacceptable risks, then it is very unlikely that the outdoor air pathway will pose a health risk.

The excavation of soil may be required at the Site in the future for such activities as the installation of a shallow foundation, or utility installation and repair. Generally these activities involve movement of surface or shallow soils to a depth of no more than 5 feet bgs. The current Site conditions indicate that VOCs and SVOCs are not found in soils outside of the existing building. Therefore, future soil excavation activities would not pose a health risk to construction workers involved in such activities.

The incidental ingestion of groundwater from subsurface soil leaching at the Site is not a complete exposure pathway since the groundwater at the Site is not used as a source of drinking water. Municipal supply wells within 0.5 miles of the Site are known or suspected to draw groundwater from lower aquifers typically 100-500 feet bgs. In addition, COIs are not found in the nearest offsite down gradient monitoring wells (MW-4 and MW-5, Figure 2). The low Site groundwater velocity (Table B) and some evidence of natural biodegradation strongly suggest that groundwater is an unlikely route of exposure under current or foreseeable future conditions. Thus SSTLs for the ingestion of groundwater were not calculated.

The inhalation of surface soil particulate, ingestion and dermal contact with COIs in surface soil are not complete exposure pathways because the entire Site is paved. It is possible, however, that these represent potentially complete exposure pathways as part of a future construction activity scenario.

2.1 Exposure Scenarios

Two exposure scenarios are considered in the health risk assessment based upon current and future use. One scenario is the Commercial/Industrial Scenario and the other is the Construction Worker Scenario. A residential scenario was not evaluated because the Site is not zoned for residential land use.

The Construction Worker scenario is not quantitatively evaluated because VOCs and SVOCs are not present in soil outside the bounds of the existing building, and the present building will not be demolished. The only COI that a worker could potentially contact during construction activities at depths to 5 feet bgs is motor oil, which is not volatile. However, personal protection equipment (PPE) to reduce dermal contact with residual hydrocarbons by construction workers is recommended if future construction activities occur at the Site.

2.2 Site-Specific Parameters and Exposure Assumptions

The exposure assumptions used for the Commercial/Industrial Scenario are presented in Table C. Standard USEPA and Department of Toxic Substances Control (DTSC) exposure assumptions were used to describe the frequency and duration of exposure for the Commercial/Industrial Worker Scenario (USEPA 1992, DTSC, 1992). The scenario evaluated only considers potential exposure to an adult, given the expected present and future use of the Site. Site-specific physical and chemical parameters were incorporated where available. The following Site-specific physical and chemical parameters in soil and groundwater were incorporated in the health risk assessment:

- fraction of organic carbon (foc);
- thickness of capillary fringe;
- thickness of vadose zone;
- infiltration rate of water through soil;
- depth to groundwater;
- depth to shallow subsurface soil source;
- depth to deeper subsurface soil source;
- ground water darcy velocity;
- width of source area parallel to groundwater flow direction;
- volumetric air content;
- volumetric water content;
- total porosity; and
- bulk density.

The width of the source area was estimated based on the groundwater sample locations where TCE was detected, since TCE concentrations have the greatest influence on the SSTLs. The width was conservatively estimated to be 75 feet perpendicular to groundwater direction; the actual width is probably about 60 feet or less.

3.0 CHEMICALS OF INTEREST

Tables 3 and 6 summarize the analytical results for soil and groundwater samples, respectively, collected from the Site. Each chemical detected in at least one sample has been identified as a COI. For groundwater, the COIs are trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), xylenes and naphthalene. Xylenes were detected in low concentrations in groundwater samples collected from MH-21. The polyaromatic hydrocarbon (PAH) with the greatest detected concentration in groundwater is naphthalene from sample location MH-14 (Figure 8, Table 6). As agreed upon with the ACDEH at a June 9, 1997 meeting, naphthalene was selected as the COI to represent PAHs in groundwater.

Naphthalene was selected as a soil COI because it was detected in soil, and because it is also a good surrogate for the paint thinner/mineral spirits (PT/MS) detected on Site. The PT/MS samples were analyzed by Friedman & Bruya and identified as a C8 - C14 hydrocarbon chain. Naphthalene was chosen as a surrogate for PT/MS as per the advice of Jim Bruya, of Friedman & Bruya, and at the recommendation of Matt Small with the USEPA UST program (personal communications, 1997).

TCE has not been detected in Site soil samples. TCE, however, was detected in two of eight groundwater samples collected between May 22 and June 11, 1997. TCE was not detected in any groundwater samples collected from sample locations beneath the existing building. In accordance with the recommendation of the ACDEH, the exposure point concentration for TCE was estimated by taking the average TCE groundwater concentration across the Site. The detection limit value was used in the averaging to represent nondetect sampling results (Table 3). The groundwater sample collected from MH-10 was not included in the average because of sample interference by mineral spirits (Table 6).

Crude oil, motor oil and diesel fuel have also been detected in Site soil and groundwater. Based on the peaks observed in the chromatographs for samples analyzed by Friedman & Bruya (Appendix G), it appears that the motor oil and diesel originate from the crude oil and not from a separate source. These long-chain hydrocarbons are not volatile. Since no BTEX was detected in corresponding soil samples, and the Site is covered by asphalt, crude oil, motor oil and diesel fuel were not evaluated quantitatively in this health risk assessment.

4.0 TOXICITY CRITERIA

Of the five COIs, only TCE is classified as a potential human carcinogen (USEPA, 1996). The SSTLs for TCE were calculated based on a maximum allowable total excess cancer risk equal to 1

x 10⁻⁵ (reference). Toxicity criteria are presented in Table A.

The five COIs are classified as potential noncarcinogens. The USEPA (1996) RfDs have been used to characterize the potential noncarcinogenic health risks. The ratio of the average daily dose of a chemical (in mg/kg-day) to the RfD is referred to as the hazard quotient (HQ). If the HQ is less than 1, the concentration of the chemical in the environment will not result in an individual being exposed above the threshold dose. SSTLs for noncarcinogenic COIs were calculated based on a hazard index value of one. Toxicity criteria are presented in Table A.

5.0 SSTLs

SSTLs are the chemical concentrations that can remain in groundwater and/or soil and still adequately protect human health and the environment. SSTLs have been calculated for the RME and typical cases. The more conservative RME case is defined by the USEPA (1989) as, "...the highest exposure that is reasonably expected to occur." It is developed by either selecting values at the high end of distributions for Site-specific parameters or using given ASTM default values. As a conservative measure, the effects of biological and chemical degradation over time were not considered in the calculation of SSTLs, despite some evidence suggesting that biological degradation is likely occurring at the Site. The average case is based on mean or typical values for Site-specific physical conditions, and is often the default value recommended by ASTM.

Table I presents the summary SSTLs for each COI in soil and groundwater for complete and potentially complete exposure pathways. The fate and transport equations, and calculated parameters used to estimate SSTLs are presented in Tables A through I.

6.0 RESULTS

Volatilization from soil to indoor/outdoor air - COI concentrations in soil at the Site are below levels that would pose a health risk. The maximum concentrations of surface and subsurface soil samples collected above the groundwater table are less than the calculated RME SSTLs for indoor and outdoor air. With the exception of cis-1,2-DCE and TCE (Table I), the soil SSTLs are above soil saturation concentrations. 1,2-DCE and TCE were not detected in any of the soil samples collected from the Site.

Volatilization from groundwater to indoor/outdoor air - Exposure point concentrations of each COI in groundwater are less than their respective RME SSTLs for groundwater volatilization to both indoor and outdoor air (Table I). As per the recommendation by ACDEH, the average concentrations of TCE, 1,2-DCE and xylenes were used to represent site-wide concentrations in groundwater. The maximum naphthalene concentration was used to represent Site groundwater concentrations since this COI was also detected in subsurface soil. The Site COI exposure point concentrations are provided in Table I.

Consideration of Floating Hydrocarbons - Although there is a thin layer of floating petroleum hydrocarbons in groundwater, the results of the health risk assessment indicate that the presence of this material does not pose a health risk at the Site. Naphthalene, the surrogate for PT/MS, has soil and groundwater SSTL concentrations greater than the pure chemical solubility in water, and the equilibrium soil saturation concentration, respectively. In addition, VOCs and SVOCs were not detected in Site soil.

Surface Soil and Direct Exposure Pathways - The maximum concentrations of COIs in surface soil are at least an order of magnitude below their RME SSTLs for the dermal contact, ingestion and inhalation exposure pathways (Table I). The use of both RME SSTLs and maximum concentrations are conservative measures. Therefore, the present Site soil concentrations pose even lower risks than suggested by the calculated SSTLs, and a future construction scenario would not pose unacceptable risks to the worker.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The presence of five different COIs in soil and groundwater at the Site do not pose unacceptable health risks to the individuals included as a potential receptors under either the Commercial/Industrial Scenario or a Construction Worker Scenario. The only hydrocarbons detected outside the area of the existing building that could be a concern via the volatilization pathway is PT/MS. Naphthalene, the surrogate used to represent PT/MS, did not exceed SSTL concentrations in soil or groundwater. The lowest calculated SSTL corresponded to TCE concentrations in groundwater. However, the average TCE concentration used to represent Site TCE concentrations did not exceed the groundwater RME SSTL for volatilization into indoor air (Table I).

As a precaution, a Risk Management Plan requiring Level D personal protection equipment to be worn by all workers participating in the handling of soil during any future construction activities at the Site should be submitted to ACDEH for consideration.

8.0 REFERENCES

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Table A
Chemical-Specific Toxicity Parameters

Chemical	Cancer Slope Factors					
	Oral SF (mg/kg-day) ⁻¹	Date Entered	Source	Inhalation SF (mg/kg-day) ¹	Date Entered	Source
cis-1,2-Dichloroethene	N/A	-	-	N/A	-	-
trans-1,2-Dichloroethene	N/A	-	-	N/A	-	-
Trichloroethene	1.1E-02	9/1/95	USEPA IX	6.0E-03	9/1/95	USEPA IX
Xylenes, Mixed	N/A	-	-	N/A	-	-
Napthalene	N/A	-	-	N/A	-	-

N/A: Toxicity criteria is not applicable; the chemical is not classified as a known or suspected human carcinogen.

Chemical	Noncarcinogenic Reference Dose						Relative Absorption Factors	
	Oral RfD (mg/kg-day)	Date Entered	Source	Inhalation RfD (mg/kg-day)	Date Entered	Source	Oral (RAFo)	Dermal (RAFd)
cis-1,2-Dichloroethene	1.0E-02	9/1/95	USEPA IX	1.0E-02	9/1/95	USEPA IX	1	0.5
trans-1,2-Dichloroethene	2.0E-02	9/1/95	USEPA IX	2.0E-02	9/1/95	USEPA IX	1	0.5
Trichloroethene	6.0E-03	9/1/95	USEPA IX	6.0E-03	9/1/95	USEPA IX	1	0.5
Xylenes, Mixed	2.0	9/1/95	USEPA IX	2.0E-01	9/1/95	USEPA IX	1	0.5
Napthalene	4.0E-02	9/1/95	USEPA IX	4.0E-02	9/1/95	USEPA IX	1	0.05

**Table B
Site Parameters**

Scenario:		Industrial/Commercial		Industrial/Commercial		Comments on Parameter Values .
Symbol	Parameter	Units	RME	Average		
d	Lower Depth of Surficial Soil Zone	cm	100	33	100cm, the ASTM default value, is approximately 3 ft. It is used to represent the depth of soil for a shallow excavation. The average case is 33cm (1 ft) which is the typical risk assessment definition of surface soil.	
ER	Enclosed-Space Air Exchange Rate	1/s	2.3E-04	2.3E-04	Default value	
foc	Fraction of Organic Carbon in Capillary Fringe Soil	g-C/g-soil	0.007	0.01	Default value.	
	Fraction of Organic Carbon in Vadose Zone Soil	g-C/g-soil	0.014	0.01	Average foc value of all vadose zone geotechnical samples.	
	Fraction of Organic Carbon in Foundation/Wall Cracks	g-C/g-soil	0.01	0.01	Not applicable.	
hcap	Thickness of Capillary Fringe	cm	152	5	5 cm is the ASTM default value; 152 cm (5 ft) is the best estimate of the thickness of the capillary fringe based on the presence of clayey soils.	
hv	Thickness of Vadose Zone	cm	396	396	Depth of vadose zone is the difference between depth to groundwater (given below) and the height of the capillary fringe.	
I	Infiltration Rate of Water Through Soil	cm/year	9.2	1.2	The 30 year annual average precipitation (24.3 inches, or 61 cm) is representative of Berkeley, CA (NOAA, 1992). Paving at the site acts as an impervious barrier. It was assumed that 2% (average case) and 15% (RME) of rain will infiltrate soil.	
LB	Enclosed-Space (Office) Volume/Infiltration Area Ratio	cm	213	213	The height of the office area on the Site is conservatively estimated as 8 ft (213 cm) to consider possible future construction activity at the Site.	
Lcrack	Enclosed-Space Foundation or Wall Thickness	cm	15	15	15 cm is the default value.	
Lgw	Depth to Groundwater	cm	456	548	The ground water table is located about 15 ft bgs (456 cm). We used the average depth to first ground water for the typical value.	
Ls-air	Depth to Shallow Subsurface Soil Source	cm	152	152	Measurable mineral spirits/paint thinner at approximately 5 ft bgs (152 cm).	
Ls-gw	Depth to Deeper Subsurface Soil Source	cm	305	305	The shallower depth of the deeper subsurface source is approximately 10 ft bgs, based on site-specific measurements.	
Pe	Particulate Emission Rate	g/cm ² -s	6.9E-14	0	Particulate emissions do not occur because the site is paved, so neither wind nor mechanical erosion of the soil surface will occur. For the RME case, the ASTM default value was selected and is used for the evaluation of potential construction worker.	
Uair	Wind Speed Above Ground Surface In Ambient Mixing Zone	cm/s	225	490	The average annual wind speed in Emeryville, CA in all directions is 4.9 m/s using values measured for San Francisco, CA (CARB 1984); 2.25 m/s is the ASTM default value.	

Table B (Continued)

Scenario:		Industrial/Commercial			Comments on Parameter Values
Symbol	Parameter	Units	Industrial/Commercial RME	Average	
Ugw	Ground Water Darcy Velocity	cm/yr	113.50	113.50	Calculated as $(I \cdot K)$. The Site-specific gradient (I) is approximately 0.012. The hydraulic conductivity (K) is estimated to be approximately 3.0 E-04 (cm/sec) (Driscoll, 1989).
W-gw	Width of Source Area Parallel to Groundwater Flow Direction	cm	2000	2000	The distance between locations where TCE was detected in ground water for both the RME and typical values. The width of the soil source parallel to groundwater flow is about 75 ft (2000 cm).
delta-air	Ambient Air Mixing Zone Height	cm	200	200	2-meters (200 cm) is approximately the top of the breathing zone; this is the ASTM default value.
delta-gw	Groundwater Mixing Zone Thickness	cm	200	200	200 cm is the ASTM default value.
nu	Areal Fraction of Cracks in Foundation/Wall	cm ² -cracks/cm ² total area	0.01	0.01	There were no obvious cracks observed in the building at the Site; the ASTM default value of 1% (0.01) was used.
theta-acap	Volumetric Air Content in Capillary Fringe Soils	cm ³ -air/cm ³ -soil	0.02	0.02	Calculated by subtracting the capillary fringe volumetric water content from the total soil porosity of the capillary fringe.
theta-acrack	Volumetric Air Content in Foundation/Wall cracks	cm ³ -air/cm ³ total volume	0.065	0.065	For site-specific data, 1/2 the pore space was filled with air and 1/2 filled with water.
theta-as	Volumetric Air Content in Vadose Zone Soil	cm ³ -air/cm ³ -soil	0.09	0.09	Average value calculated by subtracting the vadose zone volumetric water content from the total soil porosity of the vadose zone. Default value calculated by assuming 1/2 pore volume is water.
theta-Ts	Total Soil Porosity in Vadose Zone Soil	cm ³ /cm ³ -soil	0.32	0.32	The average site soil porosity for the vadose zone is 32%.
theta-Tcap	Total Soil Porosity in Capillary Fringe	cm ³ /cm ³ -soil	0.32	0.32	The average site soil porosity for the capillary fringe is 32%.
theta-Tcrack	Total Porosity in Foundation	cm ³ /cm ³ -soil	0.13	0.13	Used most conservative porosity value from "Permeability of Concrete" (D. Whiting & A Wallitt).
theta-wcap	Volumetric Water Content in Capillary Fringe Soil	cm ³ -H ₂ O/cm ³ -soil	0.3	0.3	The average moisture content percentage for the capillary fringe is 20% by weight; Converting to percent by volume results in a value of 0.3 (30%).
theta-wcrack	Volumetric Water Content in Foundation/Wall Crack	cm ³ -H ₂ O/cm ³ -total volume	0.065	0.065	It has been assumed that about 1/2 of pore space is filled with water.
theta-ws	Volumetric Water Content in Vadose Zone Soil	cm ³ -H ₂ O/cm ³ -soil	0.23	0.23	The average moisture content mass percentage for the vadose zone is 16%, which converted to volumetric % equals 23%.
rho-s-v	Soil Bulk Density of Vadose Zone Soil	g-soil/cm ³ -soil	1.8	1.8	The Site-specific value was calculated by averaging dry bulk densities for vadose zone soil samples.
rho-s-cap	Soil Bulk Density of Capillary Fringe Soil	g-soil/cm ³ -soil	1.7	1.7	The Site-specific value was calculated by averaging dry bulk densities for capillary fringe soil samples.
tau	Averaging Time for Vapor Flux	s	7.88E+08	7.88E+08	Standard averaging time is 25 years, expressed in seconds.

Table C
Exposure Parameters for RBCA

Parameter	Definition	Units	Industrial/Commercial		Comment(s)
			RME	Average	
ATc	Averaging Time for Carcinogens	years	70	70	Based on USEPA definition of averaging time for carcinogens.
ATn	Averaging Time for Noncarcinogens	years	25	25	Based on USEPA definition of averaging time for noncarcinogens.
ED	Exposure Duration	years	25	25	Default USEPA & DTSC value.
BW	Body Weight - Adult	kg	70	70	Default USEPA & DTSC value.
EF	Exposure Frequency	days/year	250	250	Default USEPA & DTSC value.
IRsoil	Soil Ingestion Rate	mg/day	50	50	Default value from USEPA & DTSC.
IRair-indoor	Daily Indoor Inhalation Rate	m ³ /day	20	5	Default USEPA & DTSC values.
IRair-outdoor	Daily Outdoor Inhalation Rate	m ³ /day	20	11	Default USEPA & DTSC values.
IRw	Daily Water Ingestion Rate	L/day	1	1	USEPA & DTSC default value; assumes 1/2 of daily water obtained at work.
M	Soil-to-Skin Adherence Factor	mg/cm ²	0.5	0.2	RME value is ASTM, USEPA & DTSC default value for RME case. It is on the high-side of adherence per USEPA (1992); average value is USEPA (1992) recommended average value for adherence.
SA	Exposed Skin Surface Area	cm ² /day	3160	2000	RME value is ASTM default value; average case is USEPA (1989) value for outdoor exposures with soil adhering to head and hands.

Table D
Chemical-Specific Physical Properties

Chemical	Molecular Weight (MW)		Water Solubility (WS)		Vapor Pressure (VP)		Henry's Law Constant (H) *	
	g/mol	source	mg/L	source	mm Hg	source	unitless	source
cis-1,2-Dichloroethene	9.7E+01	ASTM	8.0E+02	Verschueren	2.0E+02	Verschueren	3.4E-03	Howard
trans-1,2-Dichloroethene	9.7E+01	ASTM	6.0E+02	Verschueren	3.4E+02	Howard	6.7E-03	Howard
Trichloroethene	1.31E+02	Verschueren	1.1E+03	Verschueren	5.8E+01	Verschueren	3.7E-01	ASTM
Xylenes, Mixed	1.06E+02	ASTM	1.98E+02	ASTM	7.96E+00	SPHEM	2.9E-01	ASTM
Napthalene	1.28E+02	ASTM	3.1E+01	ASTM	2.3E-01	ASTM	4.9E-02	ASTM

**Table D (continued)
Chemical-Specific Physical Properties**

Chemical	Diffusion Coefficient in Air (Dair)*		Diffusion Coefficient in Water (Dw)*		Carbon-Water Sorption Coefficient (koc)		Soil-Water Sorption Coefficient (ks)*	
	cm ² /s	source	cm ² /s	source	g H2O/g C	source	g H2O/g soil (RME/default foc)	g H2O/g soil (average foc)
cis-1,2-Dichloroethene	1.0E-01	EHRV	9.5E-05	Lyman	4.20E+01	Howard	1.86E+00	4.20E-01
trans-1,2-Dichloroethene	1.0E-01	EHRV	9.5E-05	Lyman	4.20E+01	Howard	2.09E+00	4.20E-01
Trichloroethene	8.0E-02	EHRV	8.3E-05	Lyman	6.46E+01	Montgomery	2.53E+00	6.46E-01
Xylenes, Mixed	7.2E-02	ASTM	8.5E-06	ASTM	2.40E+02	ASTM	3.36E+00	2.40E+00
Napthalene	7.2E-02	ASTM	9.4E-06	ASTM	1.29E+03	ASTM	1.80E+01	1.29E+01

*: Some or all of the values for this parameter have been calculated as follows:

Henry's Law Constant: If H was provided in units of moles/L-atm, it was converted to the unitless H by dividing by universal gas constant & temperature at 20 C (293 K) (value is 0.024)

Diffusivity in air (Dair) is estimated by the Fuller, Schettler, and Giddings method provided in Lyman, et al. (1982)

Diffusivity in Water: Calculated by the Hayduk & Laudie method in Lyman, et al. (1982), assumes a temperature of 16 C

Soil-Water Sorption Coefficient is calculated as the fraction of organic carbon (foc) times the Kow. FOC is from Table 2

** : Site-Specific Target Levels (SSTLs) have been calculated using both USEPA and California OEHHA cancer slope factors

Sources:

ASTM - ASTM 1995 (Risk-Based Corrective Action Standard)

EHRV - Electronic Handbook of Risk Assessment Values. 1996

Howard - Howard, P.H. 1993.

Lyman - Lyman et. al. 1982.

Montgomery - Montgomery, J.H. and Welkom, L.M., 1989

SPHEM - USEPA 1986 (Superfund Public Health Evaluation Manual)

Verschuieren- Verschuieren, K. 1983. Handbook of Environmental Data on Organic Chemicals.

Table E
Effective Diffusion Coefficients and Soil Saturations Concentrations

Scenario: Industrial/Commercial

Chemical	Calculated Factors			
	Ds-eff		Dcrack-eff	
	RME	Average	RME	Average
cis-1,2-Dichloroethene	2.37E-03	2.37E-03	8.44E-04	8.44E-04
trans-1,2-Dichloroethene	1.36E-03	1.36E-03	7.53E-04	7.53E-04
Trichloroethene	2.74E-04	2.74E-04	5.29E-04	5.29E-04
Xylenes, Mixed	2.34E-04	2.34E-04	4.75E-04	4.75E-04
Naphthalene	2.46E-04	2.46E-04	4.76E-04	4.76E-04

Chemical	Calculated Factors					
	Dcap-eff		Dws-eff		Csat	
	RME	Average	RME	Average	RME	Average
cis-1,2-Dichloroethene	4.95E-03	4.95E-03	2.77E-03	2.38E-03	1.59E+03	4.38E+02
trans-1,2-Dichloroethene	2.51E-03	2.51E-03	1.56E-03	1.37E-03	1.33E+03	3.29E+02
Trichloroethene	4.17E-05	4.17E-05	1.08E-04	2.56E-04	2.94E+03	8.72E+02
Xylenes, Mixed	6.74E-06	6.74E-06	2.26E-05	1.65E-04	6.93E+02	5.03E+02
Naphthalene	3.55E-05	3.55E-05	9.31E-05	2.29E-04	5.63E+02	4.03E+02

Table E (continued)
Effective Diffusion Coefficients and Soil Saturations Concentrations

Scenario: Industrial/Commercial

Equations Used to Calculate Values

Ds-eff: Effective diffusion coefficient in soil based on vapor-phase concentration, units = cm²/s

$$D_{s-eff} = (D_{air} * (\theta_{as}^{3.33} / \theta_t^2)) + (D_{wat} * (1/H) * (\theta_{ws}^{3.33} / \theta_t^2))$$

Dcrack-eff: Effective diffusion coefficient through foundation cracks, units = cm²/s

$$D_{crack-eff} = (D_{air} * (\theta_{acrack}^{3.33} / \theta_t^2)) + (D_{wat} * (1/H) * (\theta_{acrack}^{3.33} / \theta_t^2))$$

Dcap-eff: Effective diffusion coefficient through capillary fringe, units = cm²/s

$$D_{cap-eff} = (D_{air} * (\theta_{acap}^{3.33} / \theta_t^2)) + (D_{wat} * (1/H) * (\theta_{wcap}^{3.33} / \theta_t^2))$$

Dws-eff: Effective diffusion coefficient between ground water and soil surface, units = cm²/s

$$D_{ws-eff} = (h_{cap} + h_v) / ((h_{cap} / D_{cap-eff}) + (h_v / D_{s-eff}))$$

Csat: Soil Concentration at which Dissolved Pore-Water and Vapor Phases Become Saturated, units mg/kg-soil

$$C_{s-sat} = (S / \rho_s) * (H * \theta_{as} + \theta_{ws} + k_s * \rho_s) * 10 \text{ L-g/cm}^3\text{-kg}$$

See Physical & Chemical Properties and Site Properties Tables for Definitions of the symbols & units for factors in equations.

Table F
Volatilization Factors (VFs)

Chemical	Volatilization Factor					
	VFwesp		VFwamb		VFas	
	RME	Average	RME	Average	RME	Average
cis-1,2-Dichloroethene	3.57E-05	3.46E-05	9.17E-07	3.02E-07	4.82E-06	1.54E-06
trans-1,2-Dichloroethene	5.98E-05	5.71E-05	1.02E-06	3.41E-07	4.85E-06	1.54E-06
Trichloroethene	1.07E-03	1.52E-03	3.88E-06	3.53E-06	1.01E-05	1.54E-06
Xylenes, Mixed	2.54E-04	9.12E-04	6.39E-07	1.78E-06	1.01E-05	1.54E-06
Naphthalene	1.24E-04	1.80E-04	4.44E-07	4.17E-07	1.95E-06	1.06E-06

Chemical	Volatilization Factor					
	VFp		VFsamB		VFsesp	
	RME	Average	RME	Average	RME	Average
cis-1,2-Dichloroethene	3.07E-12	0.00E+00	5.90E-07	9.82E-07	1.83E-05	6.64E-05
trans-1,2-Dichloroethene	3.07E-12	0.00E+00	5.98E-07	1.11E-06	2.78E-05	1.13E-04
Trichloroethene	3.07E-12	0.00E+00	5.52E-06	8.56E-06	7.14E-04	2.41E-03
Xylenes, Mixed	3.07E-12	0.00E+00	2.82E-06	1.78E-06	3.79E-04	5.22E-04
Naphthalene	3.07E-12	0.00E+00	9.66E-08	6.19E-08	1.25E-05	1.75E-05

**Table F (continued)
Volatilization Factors (VFs)**

VFwesp = Volatilization Factor for groundwater to enclosed space, units = [(mg/m³air)/(mg/L-water)]

$$VFwesp = [(H) * (Dws-eff/Lgw) / (ER * Lb) * 1000] / [1 + ((Dws-eff/Lgw) / (ER * Ls)) + (Dws-eff/Lgw) / (Dcrack-eff/Lcrack) * nu]$$

VFwamb = volatilization factor for groundwater to ambient (outdoor) vapors, units = [(mg/m³-air)/(mg/L-water)]

$$VFwamb = (H * 1000) / [1 + (U-air * delta-air * Lgw) / (W * Dws-eff)]$$

VFas(1) = volatilization factor for surface soil to ambient air (vapors), units = [(mg/m³-air)/(mg/kg-soil)]

$$VFas = [((2 * W * rho-s) / (Uair * delta-air)) * ((Ds-eff * H) / (\tau * \pi * (\theta-ws + Ks * rho-s + H * \theta-as)^{0.5})) * 1000]$$

VFas(2) = volatilization factor for surface soil to ambient air (vapors), units = [(mg/m³-air)/(mg/kg-soil)]

$$VFas = (W * rho-s * D * 1000) / (Uair * delta-air * \tau)$$

VFp = "volatilization factor" for surfacial soil particulates to ambient air, units = [(mg/m³-air)/(mg-kg soil)]

$$VFp = (Pe * W * 1000) / (Uair * delta-air)$$

VFsamb = volatilization factor for subsurface soil to ambient air, units = [(mg/m³-air)/(mg/kg-soil)]

$$VFsamb = (H * rho-s * 1000) / [(\theta-ws + Ks * rho-s + H * \theta-as) * (1 + (Uair * delta-air * Ls) / (Ds-eff * W))]$$

VFsesp = volatiliization factor for subsurface soil to enclosed space vapors, units = [(mg/m³-air)/(mg/kg-soil)]

$$VFsesp = \frac{[(H * rho-s) / (\theta-ws + Ks * rho-s + H * \theta-as)] * ((Ds-eff/Ls) / (ER * Lb)) * 1000}{(1 + ((Ds-eff/Ls) / (ER * Lb)) + (Ds-eff/Ls) / (Dcrack-eff/Lcrack) * nu)}$$

See Tables of physical and chemical properties and site parameters for definitions of the units used in the equations and values for the parameters used to calculate the volatilization factors.

Table G
RBCA SSTLs Based on Carcinogenic Effects For Commercial/Industrial Receptors

Target Risk (TR)
 Scenario:

1.0E-05
 Industrial/Commercial

Tier II SSTLs - Air				
Chemical	AirOUT - Inh (ug/m ³)		AirIN - Inh (ug/m ³)	
	RME	Average	RME	Average
Trichloroethene	2.4E+01	4.3E+01	2.4E+01	9.5E+01

Tier II SSTL - Groundwater				
Chemical	GW-InAir (mg/L)		GW-OutAir (mg/L)	
	RME	Average	RME	Average
Trichloroethene	2.2E+01	6.3E+01	6.1E+03	1.2E+04

Table G (continued)
RBCA SSTLs Based on Carcinogenic Effects For Commercial/Industrial Receptors

Target Risk (TR) 1.0E-05
 Scenario: Industrial/Commercial

Tier II SSTL - Surface and Subsurface Soils						
Chemical	Surface Soil (mg/kg)		SubSoil - OutAir (mg/kg)		SubSoil-InAir (mg/kg)	
	RME	Average	RME	Average	RME	Average
Trichloroethene	2.1E+01	2.8E+01	4.3E+03	1.8E+03	3.3E+01	4.0E+01

Table G (continued)
RBCA SSTLs Based on Carcinogenic Effects For Commercial/Industrial Receptors

AirOut - Inh - Exposure Pathway Is Air Inhalation , units = mg/m³-air
 AirOut-Inh = (TR * BW * ATc * 365 days/year)/(SFi * IRairOut * EF * ED)

AirIn - Inh - Exposure Pathway Is Air Inhalation , units = mg/m³-air
 AirIn-Inh = (TR * BW * ATc * 365 days/year)/(SFi * IRairIn * EF * ED)

GW-InAir : Exposure Pathway is Inhalation Vapors volatilizing from groundwater into Indoor Air, unit = mg/L-water
 GW-InAir = (Air-Inh)/(VFwesp) * 10⁻³ mg/ug

GW-OutAir: Exposure Pathway is Inhalation of Vapor Volatilizing Into Outdoor Air, unit = mg/L-water
 GW-OutAir = (Air-Inh)/(VFwamb) * 10⁻³ mg/ug

Surface Soil: Exposure Pathways are Soil Ingestion, Inhalation of Soil Vapors and Particulates,
 and Dermal Contact with Soil, unit = mg/kg-soil

Surface Soil =
$$\frac{(TR * BW * ATc * 365 \text{ days/year})}{Ef * Ed * \{[(1E-6 \text{ kg/mg} * (SFo * 10^{-6} \text{ kg/mg} * (IRsoil * RAfo + SA * M * RAfd))] + (SFi * IRair * (VFss + VFp))\}}$$

Subsoil-OutAir: Exposure Pathway is Inhalation of Outdoor (or Ambient) Air, units = mg/kg-soil
 Subsoil-OutAir: = (Air-Inh)/VFsamb * 10⁻³ mg/ug

Subsoil-InAir: Exposure Pathway is Inhalation of Indoor (Enclosed Space) Vapors, units = mg/kg-soil
 Subsoil-InAir = (Air-Inh)/VFsesp * 10⁻³ mg/ug

Table H
RBCA SSTLs Based on Noncarcinogenic Effects

Target Hazard Quotient
Scenario:

1.0E+00
Industrial/Commercial

Tier II SSTLs - Air				
Chemical	AirOUT - Inh (ug/m ³)		AirIN - Inh (ug/m ³)	
	RME	Average	RME	Average
cis-1,2-Dichloroethene	5.1E+01	9.3E+01	5.1E+01	2.0E+02
trans-1,2,-Dichloroethene	1.0E+02	1.9E+02	1.0E+02	4.1E+02
Trichloroethene	3.1E+01	5.6E+01	3.1E+01	1.2E+02
Xylenes, Mixed	1.0E+03	1.9E+03	1.0E+03	4.1E+03
Naphthalene	2.0E+02	3.7E+02	2.0E+02	8.2E+02

Tier II SSTLs - Groundwater				
Chemical	GW-InAir (mg/L)		GW-OutAir (mg/L)	
	RME	Average	RME	Average
cis-1,2-Dichloroethene	1.4E+03	5.9E+03	5.6E+04	3.1E+05
trans-1,2-Dichloroethene	1.7E+03	7.2E+03	1.0E+05	5.4E+05
Trichloroethene	2.9E+01	8.1E+01	7.9E+03	1.6E+04
Xylenes, Mixed	4.0E+03	4.5E+03	1.6E+06	1.0E+06
Naphthalene	1.6E+03	4.5E+03	4.6E+05	8.9E+05

Table H (continued)
RBCA SSTLs Based on Noncarcinogenic Effects

Target Hazard Quotient
 Scenario:

1.0E+00
 Industrial/Commercial

Chemical	Tier II SSTLs - Surface and Subsurface Soil					
	Surface Soil (mg/kg)		SubSoil - OutAir (mg/kg)		SubSoil-InAir (mg/kg)	
	RME	Average	RME	Average	RME	Average
cis-1,2-Dichloroethene	1.1E+03	3.4E+03	8.7E+04	9.5E+04	2.8E+03	3.1E+03
trans-1,2-Dichloroethene	2.2E+03	6.7E+03	1.7E+05	1.7E+05	3.7E+03	3.6E+03
Trichloroethene	5.9E+02	1.7E+03	5.6E+03	6.5E+03	4.3E+01	5.1E+01
Xylenes, Mixed	7.1E+04	1.5E+05	3.6E+05	1.0E+06	2.7E+03	7.8E+03
Naphthalene	2.4E+04	4.5E+04	2.1E+06	6.0E+06	1.6E+04	4.7E+04

Table H (continued)
RBCA SSTLs Based on Noncarcinogenic Effects

AirOut - Inh - Exposure Pathway Is Air Inhalation , units = mg/m³-air

$$\text{AirOut-Inh} = (\text{THQ} * \text{RfDinh} * \text{BW} * \text{ATn} * 365 \text{ days/year}) / (\text{IRairOut} * \text{EF} * \text{ED})$$

AirIn - Inh - Exposure Pathway Is Air Inhalation , units = mg/m³-air

$$\text{AirIn-Inh} = (\text{THQ} * \text{RfDinh} * \text{BW} * \text{ATn} * 365 \text{ days/year}) / (\text{IRairIn} * \text{EF} * \text{ED})$$

GW-InAir : Exposure Pathway is Inhalation Vapors volatilizing from groundwater into Indoor Air, unit = mg/L-water

$$\text{GW-InAir} = (\text{Air-Inh}) / (\text{VFwesp})$$

GW-OutAir: Exposure Pathway is Inhalation of Vapor Volatilizing Into Outdoor Air, unit = mg/L-water

$$\text{GW-OutAir} = (\text{Air-Inh}) / (\text{VFwamb})$$

Soil: Exposure Pathways are Soil Ingestion, Inhalation of Soil Vapors and Particulates,
and Dermal Contact with Soil, unit = mg/kg-soil

Surface Soil =
$$\frac{(\text{THQ} * \text{BW} * \text{ATn} * 365 \text{ days/year})}{\text{Ef} * \text{Ed} * \{ [(1\text{E-}6 \text{ kg/mg} * (\text{IRsoil} * \text{RAFo} + \text{SA} * \text{M} * \text{RAFd})) / \text{RdDo}] + (\text{IRair} * (\text{VFss} + \text{VFp})) / \text{RfDi} \}}$$

Subsoil-OutAir: Exposure Pathway is Inhalation of Outdoor (or Ambient) Air, units = mg/kg-soil

$$\text{Subsoil-OutAir} = (\text{Air-Inh}) / \text{VFsamb}$$

Subsoil-InAir: Exposure Pathway is Inhalation of Indoor (Enclosed Space) Vapors, units = mg/kg-soil

$$\text{Subsoil-InAir} = (\text{Air-Inh}) / \text{VFsesp}$$

Table I
Summary of RBCA SSTLs

SSTLs for Groundwater

Chemical	Volatilization to Outdoor Air (mg/L)		Volatilization to Indoor Air (mg/L) ^a		Site Conc. (mg/L)
	RME	Average	RME	Average	Max. 1996
cis-1,2-Dichloroethene	>S	>S	>S	>S	38*
trans-1,2-Dichloroethene	>S	>S	>S	>S	12*
Trichloroethene	>S	>S	22	63	16*
Xylenes, Mixed	>S	>S	>S	>S	0.03
Napthalene	>S	>S	>S	>S	1.3

* Site average concentration in groundwater

^a The lesser of the cancer and noncancer SSTLs are presented here.

SSTLs for Surface Soil

Chemical	Direct Exposure Pathways(mg/kg)		Site Soil Concentration(mg/kg, <= 2 ft bgs)	
	RME	Average	Maximum	Mean
cis-1,2-Dichloroethene	1091	RES	ND	ND
trans-1,2-Dichloroethene	RES	RES	ND	ND
Trichloroethene	588	RES	ND	ND
Xylenes, Mixed	RES	RES	ND	ND
Napthalene	RES	RES	3.4	0.4

Notes and Abbreviations

>S: Calculated SSTL is greater than pure chemical solubility in water

RES: Calculated SSTL is greater than the equilibrium soil saturation concentrations (C_{sat})

ND: Not Detected

N/A: Not Analyzed for this compound

**Table I (continued)
Summary of RBCA SSTLs**

SSTLs for Subsurface Soil

Chemical	Volatilization to Outdoor Air (mg/kg)		Volatilization to Indoor Air (mg/kg)		Site Soil Concentration(mg/kg, 2 ft < x <= 16 ft bgs)	
	RME	Average	RME	Average	Maximum	Mean
cis-1,2-Dichloroethene	RES	RES	RES	RES	ND	ND
trans-1,2-Dichloroethene	RES	RES	RES	RES	ND	ND
Trichloroethene	RES	RES	43	51	ND	ND
Xylenes, Mixed	RES	RES	RES	RES	ND	ND
Naphthalene	RES	RES	RES	RES	3.4	0.4

Notes and Abbreviations

>S: Calculated SSTL is greater than pure chemical solubility in water

RES: Calculated SSTL is greater than the equilibrium soil saturation concentrations (Csat)

ND: Not Detected

N/A: Not Analyzed for this compound

APPENDIX G
CERTIFIED ANALYTICAL RESULTS

REPORT TO:		CLIENT JOB NUMBER		ANALYSIS REQUESTED				FIELD CONDITIONS:											
ADDRESS <u>M/H</u> <u>1135 ATLANTIC AVE</u>		DESTINATION LABORATORY <input checked="" type="checkbox"/> CLS (916) 638-7301 3249 FITZGERALD RD. RANCHO CORDOVA, CA 95742		PRESERVATIVES	<u>0798</u>	<u>8180M</u>	<u>8270</u>	<u>8220</u>	<u>Metals</u>	<u>8270 SIMS</u>	<u>HPS</u>	COMPOSITE:							
PROJECT MANAGER <u>DeWright</u> PHONE# <u>521-5200</u>		<input type="checkbox"/> OTHER										TURN AROUND TIME				SPECIAL INSTRUCTIONS			
PROJECT NAME <u>STAND AND BRANDS</u>												1 DAY				2 DAY			
SAMPLED BY <u>NK</u>		JOB DESCRIPTION		SITE LOCATION <u>4343 SAN PABLO AVE, EMERYVILLE</u>															

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER		HER	NP	X	X	X	X	X	X	X	X	X	X	X	X	
				NO.	TYPE															
<u>5-22-97</u>	<u>PM</u>	<u>51939293 (MH-1)</u>	<u>H₂O</u>	<u>4</u>	<u>VOA</u>	<u>HER</u>														
		<u>519394 ↓</u>		<u>1</u>	<u>AL</u>	<u>NP</u>														
		<u>519395-98 (MH-2)</u>		<u>4</u>	<u>VOA</u>	<u>HER</u>														
		<u>519399 ↓</u>		<u>1</u>	<u>AL</u>	<u>NP</u>														
		<u>518901 (MH-4)</u>		<u>1</u>	<u>AL</u>	<u>HER</u>														
		<u>518902-05 ↓</u>		<u>4</u>	<u>VOA</u>	<u>HER</u>														
		<u>518906 ↓</u>		<u>1</u>	<u>PLY</u>	<u>NP</u>														
		<u>518907 MH-4</u>	<u>H₂O</u>	<u>1</u>	<u>AL</u>	<u>NP</u>														
		<u>518908 ↓</u>		<u>1</u>	<u>V</u>	<u>HER</u>														
		<u>518909 MH-1</u>		<u>1</u>	<u>AL</u>	<u>NP</u>														

INDICATE TO:
 SEND TO
 FRIEDMAN/
 BRUYA

SUSPECTED CONSTITUENTS		SAMPLE RETENTION TIME		PRESERVATIVES: (1) HCL (2) HNO ₃		(3) = COLD (4)	
RELINQUISHED BY (SIGN) <u>Nathan King</u>	PRINT NAME / COMPANY <u>NATHAN KING / M H</u>	DATE / TIME <u>5-22-97</u>	RECEIVED BY (SIGN) <u>X/ROSS IT</u>	PRINT NAME / COMPANY		<u>5-22-97</u>	

REC'D AT LAB BY: <u>S. Smith</u>	DATE / TIME: <u>5/23/97 6:00</u>	CONDITIONS / COMMENTS:
SHIPPED VIA <input type="checkbox"/> FED X <input type="checkbox"/> UPS <input type="checkbox"/> OTHER	AIR BILL #	

CLS Labs

McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

05/30/97

Attention: Brad Wright

Reference: Analytical Results

Project Name: Standard Brands
Project No.:
Date Received: 05/23/97
Chain Of Custody: 28519

CLS ID No.: N7679
CLS Job No.: 807679

The following analyses were performed on the above referenced project:


<u>No. of Samples</u>	<u>Turnaround Time</u>	<u>Analysis Description</u>
1	3 Days	CAM Metals, TTLC, EPA Methods 6010/7000
2	3 Days	TPH Fingerprint, EPA m-8015
1	3 Days	Purgeable Aromatics by 8020 (water)
3	3 Days	Volatile Organics by EPA Method 8240
3	3 Days	Semivolatile Organic Compounds by GC/MS

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely


George Hampton
Laboratory Director

3249 Fitzgerald Road
Rancho Cordova, CA 95742
(916) 638-7301
Fax (916) 638-4510

3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7679-1A
Job No.: 807679
COC Log No.: 28519
Batch No.: 51154
Instrument ID: MS05
Analyst ID: FRAGSG
Matrix: WATER

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/28/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 519390-93 (MH-1)

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	90
Toluene-d8	N/A	50.0	92
p-Bromofluorobenzene	460-00-4	50.0	87

519390-93 (MH-1)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71-55-6	ND	5.0	1.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0	1.0
1,1,2-Trichloroethane	79-00-5	ND	5.0	1.0
1,1-Dichloroethane	75-34-3	ND	5.0	1.0
1,1-Dichloroethene	75-35-4	ND	5.0	1.0
1,2-Dichlorobenzene	95-50-1	ND	5.0	1.0
1,2-Dichloroethane	107-06-2	ND	5.0	1.0
1,2-Dichloropropane	78-87-5	ND	5.0	1.0
1,3-Dichlorobenzene	541-73-1	ND	5.0	1.0
1,4-Dichlorobenzene	106-46-7	ND	5.0	1.0
2-Butanone	78-93-3	ND	25	1.0
2-Hexanone	591-78-6	ND	25	1.0
4-Methyl-2-pentanone	108-10-1	ND	25	1.0
Acetone	67-64-1	ND	25	1.0
Benzene	71-43-2	ND	5.0	1.0
Bromodichloromethane	75-27-4	ND	5.0	1.0
Bromoform	75-25-2	ND	5.0	1.0
Bromomethane	74-83-9	ND	10	1.0
Carbon disulfide	75-15-0	ND	5.0	1.0
Carbon tetrachloride	56-23-5	ND	5.0	1.0
Chlorobenzene	108-90-7	ND	5.0	1.0
Chloroethane	75-00-3	ND	10	1.0
Chloroform	67-66-3	ND	5.0	1.0
Chloromethane	74-87-3	ND	10	1.0
Dibromochloromethane	124-48-1	ND	5.0	1.0
Ethylbenzene	100-41-4	ND	5.0	1.0
Methylene chloride	75-09-2	ND	5.0	1.0
Styrene	100-42-5	ND	5.0	1.0
Tetrachloroethene	127-18-4	ND	5.0	1.0
Toluene	108-88-3	ND	5.0	1.0
Trichloroethene	79-01-6	58	5.0	1.0
Trichlorofluoromethane	75-69-4	ND	10	1.0
Vinyl chloride	75-01-4	ND	10	1.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/28/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 519390-93 (MH-1)

Lab Contact: Ray Oslowski
Lab ID No.: N7679-1A
Job No.: 807679
COC Log No.: 28519
Batch No.: 51154
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

519390-93 (MH-1)(cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
cis-1,2-Dichloroethene	156-59-2	160	5.0	1.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0	1.0
m/p-Xylenes	N/A	ND	5.0	1.0
o-Xylenes	95-47-6	ND	5.0	1.0
trans-1,2-Dichloroethene	156-60-5	53	5.0	1.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0	1.0

ND = Not detected at or above indicated Reporting Limit

CA DQMS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road
Rancho Cordova, CA 95742
(916) 638-7301
Fax (916) 638-4510

3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7679-2A
Job No.: 807679
COC Log No.: 28519
Batch No.: 51154
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/28/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 519395-98 (MH-2)

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	98
Toluene-d8	N/A	50.0	98
p-Bromofluorobenzene	460-00-4	50.0	113

519395-98 (MH-2)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71-55-6	ND	5.0	1.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0	1.0
1,1,2-Trichloroethane	79-00-5	ND	5.0	1.0
1,1-Dichloroethane	75-34-3	ND	5.0	1.0
1,1-Dichloroethene	75-35-4	ND	5.0	1.0
1,2-Dichlorobenzene	95-50-1	ND	5.0	1.0
1,2-Dichloroethane	107-06-2	ND	5.0	1.0
1,2-Dichloropropane	78-87-5	ND	5.0	1.0
1,3-Dichlorobenzene	541-73-1	ND	5.0	1.0
1,4-Dichlorobenzene	106-46-7	ND	5.0	1.0
2-Butanone	78-93-3	ND	25	1.0
2-Hexanone	591-78-6	ND	25	1.0
4-Methyl-2-pentanone	108-10-1	ND	25	1.0
Acetone	67-64-1	ND	25	1.0
Benzene	71-43-2	ND	5.0	1.0
Bromodichloromethane	75-27-4	ND	5.0	1.0
Bromoform	75-25-2	ND	5.0	1.0
Bromomethane	74-83-9	ND	10	1.0
Carbon disulfide	75-15-0	ND	5.0	1.0
Carbon tetrachloride	56-23-5	ND	5.0	1.0
Chlorobenzene	108-90-7	ND	5.0	1.0
Chloroethane	75-00-3	ND	10	1.0
Chloroform	67-66-3	ND	5.0	1.0
Chloromethane	74-87-3	ND	10	1.0
Dibromochloromethane	124-48-1	ND	5.0	1.0
Ethylbenzene	100-41-4	ND	5.0	1.0
Methylene chloride	75-09-2	ND	5.0	1.0
Styrene	100-42-5	ND	5.0	1.0
Tetrachloroethene	127-18-4	ND	5.0	1.0
Toluene	108-88-3	ND	5.0	1.0
Trichloroethene	79-01-6	ND	5.0	1.0
Trichlorofluoromethane	75-69-4	ND	10	1.0
Vinyl chloride	75-01-4	ND	10	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/28/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 519395-98 (MH-2)

Lab Contact: Ray Osowski
Lab ID No.: N7679-2A
Job No.: 807679
COC Log No.: 28519
Batch No.: 51154
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

519395-98 (MH-2)(cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
cis-1,2-Dichloroethene	156-59-2	ND	5.0	1.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0	1.0
m/p-Xylenes	N/A	ND	5.0	1.0
o-Xylenes	95-47-6	ND	5.0	1.0
trans-1,2-Dichloroethene	156-60-5	ND	5.0	1.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0	1.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/28/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 518902-05 (MH-4)

Lab Contact: Ray Osowski
Lab ID No.: N7679-3B
Job No.: 807679
COC Log No.: 28519
Batch No.: 51154
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	98
Toluene-d8	N/A	50.0	104
p-Bromofluorobenzene	460-00-4	50.0	115

518902-05 (MH-4)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71-55-6	ND	5.0	1.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0	1.0
1,1,2-Trichloroethane	79-00-5	ND	5.0	1.0
1,1-Dichloroethane	75-34-3	ND	5.0	1.0
1,1-Dichloroethene	75-35-4	ND	5.0	1.0
1,2-Dichlorobenzene	95-50-1	ND	5.0	1.0
1,2-Dichloroethane	107-06-2	ND	5.0	1.0
1,2-Dichloropropane	78-87-5	ND	5.0	1.0
1,3-Dichlorobenzene	541-73-1	ND	5.0	1.0
1,4-Dichlorobenzene	106-46-7	ND	5.0	1.0
2-Butanone	78-93-3	ND	25	1.0
2-Hexanone	591-78-6	ND	25	1.0
4-Methyl-2-pentanone	108-10-1	ND	25	1.0
Acetone	67-64-1	ND	25	1.0
Benzene	71-43-2	ND	5.0	1.0
Bromodichloromethane	75-27-4	ND	5.0	1.0
Bromoform	75-25-2	ND	5.0	1.0
Bromomethane	74-83-9	ND	10	1.0
Carbon disulfide	75-15-0	ND	5.0	1.0
Carbon tetrachloride	56-23-5	ND	5.0	1.0
Chlorobenzene	108-90-7	ND	5.0	1.0
Chloroethane	75-00-3	ND	10	1.0
Chloroform	67-66-3	ND	5.0	1.0
Chloromethane	74-87-3	ND	10	1.0
Dibromochloromethane	124-48-1	ND	5.0	1.0
Ethylbenzene	100-41-4	ND	5.0	1.0
Methylene chloride	75-09-2	ND	5.0	1.0
Styrene	100-42-5	ND	5.0	1.0
Tetrachloroethene	127-18-4	ND	5.0	1.0
Toluene	108-88-3	ND	5.0	1.0
Trichloroethene	79-01-6	ND	5.0	1.0
Trichlorofluoromethane	75-69-4	ND	10	1.0
Vinyl chloride	75-01-4	ND	10	1.0

ND = Not detected at or above indicated Reporting Limit

CA DHS ELAP Accreditation/Registration Number 1233

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Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/28/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 518902-05 (MH-4)

Lab Contact: Ray Osowski
Lab ID No.: N7679-3B
Job No.: 807679
COC Log No.: 28519
Batch No.: 51154
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

518902-05 (MH-4)(cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
cis-1,2-Dichloroethene	156-59-2	ND	5.0	1.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0	1.0
m/p-Xylenes	N/A	ND	5.0	1.0
o-Xylenes	95-47-6	ND	5.0	1.0
trans-1,2-Dichloroethene	156-60-5	ND	5.0	1.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0	1.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Prepared: 05/28/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97

Lab Contact: Ray Oslowski
Lab ID No.: N7679
Job No.: 807679
COC Log No.: 28519
Batch No.: 51154
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	94
Toluene-d8	N/A	50.0	100
p-Bromofluorobenzene	460-00-4	50.0	100

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Reporting Limit (ug/L)
1,1,1-Trichloroethane	71-55-6	ND	5.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0
1,1,2-Trichloroethane	79-00-5	ND	5.0
1,1-Dichloroethane	75-34-3	ND	5.0
1,1-Dichloroethene	75-35-4	ND	5.0
1,2-Dichlorobenzene	95-50-1	ND	5.0
1,2-Dichloroethane	107-06-2	ND	5.0
1,2-Dichloroethene, total	540-59-0	ND	5.0
1,2-Dichloropropane	78-87-5	ND	5.0
1,3-Dichlorobenzene	541-73-1	ND	5.0
1,4-Dichlorobenzene	106-46-7	ND	5.0
2-Butanone	78-93-3	ND	25
2-Hexanone	591-78-6	ND	25
4-Methyl-2-pentanone	108-10-1	ND	25
Acetone	67-64-1	ND	25
Benzene	71-43-2	ND	5.0
Bromodichloromethane	75-27-4	ND	5.0
Bromoform	75-25-2	ND	5.0
Bromomethane	74-83-9	ND	10
Carbon disulfide	75-15-0	ND	5.0
Carbon tetrachloride	56-23-5	ND	5.0
Chlorobenzene	108-90-7	ND	5.0
Chloroethane	75-00-3	ND	10
Chloroform	67-66-3	ND	5.0
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5.0
Ethylbenzene	100-41-4	ND	5.0
Methylene chloride	75-09-2	ND	5.0
Styrene	100-42-5	ND	5.0
Tetrachloroethene	127-18-4	ND	5.0

ND = Not detected at or above indicated Reporting Limit

CA DONS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Prepared: 05/28/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7679
Job No.: 807679
COC Log No.: 28519
Batch No.: 51154
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

METHOD BLANK(cont.)

Analyte	CAS No.	Results (ug/L)	Reporting Limit (ug/L)
Toluene	108-88-3	ND	5.0
Trichloroethene	79-01-6	ND	5.0
Trichlorofluoromethane	75-69-4	ND	10
Vinyl chloride	75-01-4	ND	10
cis-1,2-Dichloroethene	156-59-2	ND	5.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0
m/p-Xylenes	N/A	ND	5.0
o-Xylenes	95-47-6	ND	5.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Prepared: 05/28/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7679
Job No.: 807679
COC Log No.: 28519
Batch No.: 51154
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (ug/L)	MS Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	103
Toluene-d8	N/A	50.0	108
p-Bromofluorobenzene	460-00-4	50.0	99

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (ug/L)	MS Recovery (percent)
1,1-Dichloroethene	75-35-4	50.0	98
Benzene	71-43-2	50.0	103
Chlorobenzene	108-90-7	50.0	108
Toluene	108-88-3	50.0	111
Trichloroethene	79-01-6	50.0	195(MA)

MA = Recovery data is outside standard QC limits due to matrix interference.

MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (ug/L)	MSD Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	103
Toluene-d8	N/A	50.0	108
p-Bromofluorobenzene	460-00-4	50.0	97

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (ug/L)	MSD Recovery (percent)
1,1-Dichloroethene	75-35-4	50.0	98
Benzene	71-43-2	50.0	105

MA = Recovery data is outside standard QC limits due to matrix interference.

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CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Prepared: 05/28/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7679
Job No.: 807679
COC Log No.: 28519
Batch No.: 51154
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

MATRIX SPIKE DUPLICATE(cont.)

Analyte	CAS No.	MSD Conc. (ug/L)	MSD Recovery (percent)
Chlorobenzene	108-90-7	50.0	111
Toluene	108-88-3	50.0	112
Trichloroethene	79-01-6	50.0	206(MA)

MA = Recovery data is outside standard QC limits due to matrix interference.

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
1,1-Dichloroethene	75-35-4	0
Benzene	71-43-2	2
Chlorobenzene	108-90-7	3
Toluene	108-88-3	1
Trichloroethene	79-01-6	5

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/29/97
Date Reported: 05/30/97
Client ID No.: 519394 (MH-1)

Lab Contact: Ray Osowski
Lab ID No.: N7679-1B
Job No.: 807679
COC Log No.: 28519
Batch No.: 51127
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

519394 (MH-1)

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
Motor Oil (C22-C32)	N/A	320	.25	500

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7679-2B
Job No.: 807679
COC Log No.: 28519
Batch No.: 51127
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/29/97
Date Reported: 05/30/97
Client ID No.: 519399 (MH-2)

519399 (MH-2)

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	1.2	0.50	10

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski

Date Extracted: 05/23/97

Lab ID No.: N7679

Date Analyzed: 05/28/97

Job No.: 807679

Date Reported: 05/30/97

COC Log No.: 28519

Batch No.: 51127

Instrument ID: PGC06

Analyst ID: SEPIDEHS

Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Reporting Limit (mg/L)
Petroleum Hydrocarbons (C7-C32)	N/A	ND	0.050

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart - Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7679
Job No.: 807679
COC Log No.: 28519
Batch No.: 51127
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Diesel (C12-C22)	N/A	0.500	84

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/L)	LCSD Recovery (percent)
Diesel (C12-C22)	N/A	0.500	84

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Diesel (C12-C22)	N/A	0

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS, EPA Method 8270
Continuous Liquid-Liquid, EPA Method 3520

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7679-3A
Job No.: 807679
COC Log No.: 28519
Batch No.: 51128
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: WATER

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/29/97
Date Reported: 05/30/97
Client ID No.: 518901 (MH-4)

SURROGATE

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

SD = Surrogate standard recovery data could not be generated due to sample dilution during analysis.

518901 (MH-4)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Acenaphthene	83-32-9	ND	100(AI)	10
Acenaphthylene	208-96-8	ND	100	10
Anthracene	120-12-7	ND	100	10
Benzo(a)anthracene	56-55-3	ND	100	10
Benzo(b)fluoranthene	205-99-2	ND	100	10
Benzo(k)fluoranthene	207-08-9	ND	100	10
Benzo(g,h,i)perylene	191-24-2	ND	100	10
Benzo(a)pyrene	50-32-8	ND	100	10
Chrysene	218-01-9	ND	100	10
Dibenzo(a,h)anthracene	53-70-3	ND	100	10
Dibenzofuran	132-64-9	ND	100	10
Fluoranthene	206-44-0	ND	100	10
Fluorene	86-73-7	ND	100	10
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	100	10
2-Methylnaphthalene	91-57-6	ND	100	10
Naphthalene	91-20-3	ND	100	10
Phenanthrene	85-01-8	ND	100	10
Pyrene	129-00-0	ND	100	10

AI = All report limits have been elevated due to matrix interference.

ND = Not detected at or above indicated Reporting Limit

CA DONS ELAP Accreditation/Registration Number 1233

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(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS, EPA Method 8270
Continuous Liquid-Liquid, EPA Method 3520

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7679
Job No.: 807679
COC Log No.: 28519
Batch No.: 51128
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: WATER

Date Extracted: 05/23/97
Date Analyzed: 05/29/97
Date Reported: 05/30/97

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
Phenol-d5	4165-62-2	75.0	79
2-Fluorophenol	367-12-4	75.0	71
2,4,6-Tribromophenol	118-79-6	75.0	79
Nitrobenzene-d5	4665-60-0	50.0	81
2-Fluorobiphenyl	321-60-8	50.0	92
Terphenyl-d14	98904-43-9	50.0	96

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Reporting Limit (ug/L)
Acenaphthene	83-32-9	ND	10
Acenaphthylene	208-96-8	ND	10
Anthracene	120-12-7	ND	10
Benzo(a)anthracene	56-55-3	ND	10
Benzo(b)fluoranthene	205-99-2	ND	10
Benzo(k)fluoranthene	207-08-9	ND	10
Benzo(g,h,i)perylene	191-24-2	ND	10
Benzo(a)pyrene	50-32-8	ND	10
Chrysene	218-01-9	ND	10
Dibenzo(a,h)anthracene	53-70-3	ND	10
Dibenzofuran	132-64-9	ND	10
Fluoranthene	206-44-0	ND	10
Fluorene	86-73-7	ND	10
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	10
2-Methylnaphthalene	91-57-6	ND	10
Naphthalene	91-20-3	ND	10
Phenanthrene	85-01-8	ND	10
Pyrene	129-00-0	ND	10

ND = Not detected at or above indicated Reporting Limit

CA DSHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road
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(916) 638-7301
Fax (916) 638-4510

3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS, EPA Method 8270
Continuous Liquid-Liquid, EPA Method 3520

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7679
Job No.: 807679
COC Log No.: 28519
Batch No.: 51128
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: WATER

Date Extracted: 05/23/97
Date Analyzed: 05/29/97
Date Reported: 05/30/97

LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Surrogate Recovery (percent)
Phenol-d5	4165-62-2	75.0	81
2-Fluorophenol	367-12-4	75.0	79
2,4,6-Tribromophenol	118-79-6	75.0	96
Nitrobenzene-d5	4665-60-0	50.0	82
2-Fluorobiphenyl	321-60-8	50.0	92
Terphenyl-d14	98904-43-9	50.0	100

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
1,2,4-Trichlorobenzene	120-82-1	50.0	77
Acenaphthene	83-32-9	50.0	86
2,4-DNT (2,4-Dinitrotoluene)	121-14-2	50.0	67
Pyrene	129-00-0	50.0	95
N-Nitroso-di-n-propylamine	621-64-7	50.0	86
1,4-Dichlorobenzene	106-46-7	50.0	69
Pentachlorophenol	87-86-5	75.0	98
Phenol	108-95-2	75.0	82
2-Chlorophenol	95-57-8	75.0	87
4-Chloro-3-methylphenol	59-50-7	75.0	89
4-Nitrophenol	100-02-7	75.0	58

LCS DUPLICATE SURROGATE

Analyte	CAS No.	LCSD Conc. (ug/L)	LCSD Surrogate Recovery (percent)
Phenol-d5	4165-62-2	75.0	80
2-Fluorophenol	367-12-4	75.0	80
2,4,6-Tribromophenol	118-79-6	75.0	89
Nitrobenzene-d5	4665-60-0	50.0	83
2-Fluorobiphenyl	321-60-8	50.0	94
Terphenyl-d14	98904-43-9	50.0	101

CA DHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS, EPA Method 8270
Continuous Liquid-Liquid, EPA Method 3520

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Extracted: 05/23/97
Date Analyzed: 05/29/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7679
Job No.: 807679
COC Log No.: 28519
Batch No.: 51128
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: WATER

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
1,2,4-Trichlorobenzene	120-82-1	50.0	75
Acenaphthene	83-32-9	50.0	87
24DNT (2,4-Dinitrotoluene)	121-14-2	50.0	67
Pyrene	129-00-0	50.0	98
N-Nitroso-di-n-propylamine	621-64-7	50.0	83
1,4-Dichlorobenzene	106-46-7	50.0	68
Pentachlorophenol	87-86-5	75.0	81
Phenol	108-95-2	75.0	74
2-Chlorophenol	95-57-8	75.0	84
4-Chloro-3-methylphenol	59-50-7	75.0	89
4-Nitrophenol	100-02-7	75.0	64

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
1,2,4-Trichlorobenzene	120-82-1	3
Acenaphthene	83-32-9	1
24DNT (2,4-Dinitrotoluene)	121-14-2	0
Pyrene	129-00-0	3
N-Nitroso-di-n-propylamine	621-64-7	4
1,4-Dichlorobenzene	106-46-7	1
Pentachlorophenol	87-86-5	19
Phenol	108-95-2	10
2-Chlorophenol	95-57-8	4
4-Chloro-3-methylphenol	59-50-7	0
4-Nitrophenol	100-02-7	10

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CLS Labs

Analysis Report: Aromatic Volatile Organics, EPA Method 602

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: N/A
Date Analyzed: 05/29/97
Date Reported: 05/29/97
Client ID No.: 518902-05 (MH-4)

Lab Contact: Ray Osowski
Lab ID No.: N7679-3B
Job No.: 807679
COC Log No.: 28519
Batch No.: 51148
Instrument ID: VGC04
Analyst ID: LIWEIL
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	8.00	101

518902-05 (MH-4)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Benzene	71-43-2	ND	0.50	1.0
Chlorobenzene	108-90-7	ND	0.50	1.0
1,2-Dichlorobenzene	95-50-1	ND	0.50	1.0
1,3-Dichlorobenzene	541-73-1	ND	0.50	1.0
1,4-Dichlorobenzene	106-46-7	ND	0.50	1.0
Ethylbenzene	100-41-4	ND	0.50	1.0
Toluene	108-88-3	ND	0.50	1.0
Xylenes, total	1330-20-7	ND	1.5	1.0
Methyl t-butyl ether	1634-04-4	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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Fax (916) 852-7292

CLS Labs

Analysis Report: Aromatic Volatile Organics, EPA Method 602

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7679
Job No.: 807679
COC Log No.: 28519
Batch No.: 51148
Instrument ID: VGC04
Analyst ID: LIWEIL
Matrix: WATER

Date Extracted: N/A
Date Analyzed: 05/27/97
Date Reported: 05/29/97

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	8.00	113

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Reporting Limit (ug/L)
Benzene	71-43-2	ND	0.50
Chlorobenzene	108-90-7	ND	0.50
1,2-Dichlorobenzene	95-50-1	ND	0.50
1,3-Dichlorobenzene	541-73-1	ND	0.50
1,4-Dichlorobenzene	106-46-7	ND	0.50
Ethylbenzene	100-41-4	ND	0.50
Toluene	108-88-3	ND	0.50
Xylenes, total	1330-20-7	ND	1.5
Methyl t-butyl ether	1634-04-4	ND	2.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Aromatic Volatile Organics, EPA Method 602

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski

Date Extracted: N/A
Date Analyzed: 05/27/97
Date Reported: 05/29/97

Lab ID No.: N7679
Job No.: 807679
COC Log No.: 28519
Batch No.: 51148
Instrument ID: VGC04
Analyst ID: LIWEIL
Matrix: WATER

LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	8.00	113

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Benzene	71-43-2	10.0	105
Toluene	108-88-3	10.0	94

LCS DUPLICATE SURROGATE

Analyte	CAS No.	LCSD Conc. (ug/L)	LCSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	8.00	111

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (ug/L)	LCSD Recovery (percent)
Toluene	108-88-3	10.0	110
Benzene	71-43-2	10.0	100

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Toluene	108-88-3	16
Benzene	71-43-2	5

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Fax (916) 852-7292

CLS Labs

Analysis Report: Dissolved CAM Metals, EPA Methods 6010/7000

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/28/97
Date Analyzed: 05/28/97
Date Reported: 05/29/97
Client ID No.: 518906 (MH-4) Dissolved

Lab Contact: Ray Osowski
Lab ID No.: N7679-3C
Job No.: 807679
COC Log No.: 28519
Batch No.: M970528A
Instrument ID: INMIX
Analyst ID: PONGC
Matrix: WATER

518906 (MH-4) DISSOLVED

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Method	Dilution (factor)
Ag (Silver)	7440-22-4	ND	10	6010	1.0
As (Arsenic)	7440-38-2	6.1	5.0	7060	1.0
Ba (Barium)	7440-39-3	340	20	6010	1.0
Be (Beryllium)	7440-41-7	ND	5.0	6010	1.0
Cd (Cadmium)	7440-43-9	ND	10	6010	1.0
Co (Cobalt)	7440-48-4	ND	20	6010	1.0
Cr (Chromium)	7440-47-3	ND	10	6010	1.0
Cu (Copper)	7440-50-8	ND	20	6010	1.0
Hg (Mercury)	7439-97-6	ND	0.20	7470	1.0
Mo (Molybdenum)	7439-98-7	ND	20	6010	1.0
Ni (Nickel)	7440-02-0	72	20	6010	1.0
Pb (Lead)	7439-92-1	ND	5.0	7421	1.0
Sb (Antimony)	7440-36-0	ND	50	6010	1.0
Se (Selenium)	7783-00-8	ND	5.0	7740	1.0
Tl (Thallium)	7440-28-0	ND	10	7841	1.0
V (Vanadium)	7440-62-2	ND	20	6010	1.0
Zn (Zinc)	7440-66-6	ND	20	6010	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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Fax (916) 852-7292

CLS Labs

Analysis Report: Dissolved CAM Metals, EPA Methods 6010/7000

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: 05/28/97
Date Analyzed: 05/28/97
Date Reported: 05/29/97

Lab Contact: Ray Osowski
Lab ID No.: N7679
Job No.: 807679
COC Log No.: 28519
Batch No.: M970528A
Instrument ID: INMIX
Analyst ID: PONGC
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Reporting Limit (ug/L)	Method
Ag (Silver)	7440-22-4	ND	10	6010
As (Arsenic)	7440-38-2	ND	5.0	7060
Ba (Barium)	7440-39-3	ND	20	6010
Be (Beryllium)	7440-41-7	ND	5.0	6010
Cd (Cadmium)	7440-43-9	ND	10	6010
Co (Cobalt)	7440-48-4	ND	20	6010
Cr (Chromium)	7440-47-3	ND	10	6010
Cu (Copper)	7440-50-8	ND	20	6010
Hg (Mercury)	7439-97-6	ND	0.20	7470
Mo (Molybdenum)	7439-98-7	ND	20	6010
Ni (Nickel)	7440-02-0	ND	20	6010
Pb (Lead)	7439-92-1	ND	5.0	7421
Sb (Antimony)	7440-36-0	ND	50	6010
Se (Selenium)	7783-00-8	ND	5.0	7740
Tl (Thallium)	7440-28-0	ND	10	7841
V (Vanadium)	7440-62-2	ND	20	6010
Zn (Zinc)	7440-66-6	ND	20	6010

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Dissolved CAM Metals, EPA Methods 6010/7000

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: 05/28/97
Date Analyzed: 05/28/97
Date Reported: 05/29/97

Lab Contact: Ray Osowski
Lab ID No.: N7679
Job No.: 807679
COC Log No.: 28519
Batch No.: M970528A
Instrument ID: INMIX
Analyst ID: PONGC
Matrix: WATER

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Ag (Silver)	7440-22-4	50.0	101
As (Arsenic)	7440-38-2	40.0	98
Ba (Barium)	7440-39-3	2000	97
Be (Beryllium)	7440-41-7	50.0	99
Cd (Cadmium)	7440-43-9	50.0	106
Co (Cobalt)	7440-48-4	500	98
Cr (Chromium)	7440-47-3	200	98
Cu (Copper)	7440-50-8	250	96
Hg (Mercury)	7439-97-6	3.00	100
Mo (Molybdenum)	7439-98-7	500	98
Ni (Nickel)	7440-02-0	500	96
Pb (Lead)	7439-92-1	40.0	95
Sb (Antimony)	7440-36-0	500	92
Se (Selenium)	7783-00-8	40.0	97
Tl (Thallium)	7440-28-0	40.0	100
V (Vanadium)	7440-62-2	500	100
Zn (Zinc)	7440-66-6	500	96

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (ug/L)	LCSD Recovery (percent)
Ag (Silver)	7440-22-4	50.0	100
As (Arsenic)	7440-38-2	40.0	100
Ba (Barium)	7440-39-3	2000	97
Be (Beryllium)	7440-41-7	50.0	98
Cd (Cadmium)	7440-43-9	50.0	96
Co (Cobalt)	7440-48-4	500	97
Cr (Chromium)	7440-47-3	200	98
Cu (Copper)	7440-50-8	250	95
Hg (Mercury)	7439-97-6	3.00	99
Mo (Molybdenum)	7439-98-7	500	99
Ni (Nickel)	7440-02-0	500	96
Pb (Lead)	7439-92-1	40.0	95
Sb (Antimony)	7440-36-0	500	92
Se (Selenium)	7783-00-8	40.0	95
Tl (Thallium)	7440-28-0	40.0	101
V (Vanadium)	7440-62-2	500	100
Zn (Zinc)	7440-66-6	500	96

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CLS Labs

Analysis Report: Dissolved CAM Metals, EPA Methods 6010/7000

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: 05/28/97
Date Analyzed: 05/28/97
Date Reported: 05/29/97

Lab Contact: Ray Osowski
Lab ID No.: N7679
Job No.: 807679
COC Log No.: 28519
Batch No.: M970528A
Instrument ID: INMIX
Analyst ID: PONGC
Matrix: WATER

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Ag (Silver)	7440-22-4	1
As (Arsenic)	7440-38-2	2
Ba (Barium)	7440-39-3	0
Be (Beryllium)	7440-41-7	1
Cd (Cadmium)	7440-43-9	10
Co (Cobalt)	7440-48-4	1
Cr (Chromium)	7440-47-3	0
Cu (Copper)	7440-50-8	1
Hg (Mercury)	7439-97-6	1
Mo (Molybdenum)	7439-98-7	1
Ni (Nickel)	7440-02-0	0
Pb (Lead)	7439-92-1	0
Sb (Antimony)	7440-36-0	0
Se (Selenium)	7783-00-8	2
Tl (Thallium)	7440-28-0	1
V (Vanadium)	7440-62-2	0
Zn (Zinc)	7440-66-6	0

CA DOHS ELAP Accreditation/Registration Number 1233

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(916) 852-6600
Fax (916) 852-7292

EQUOIA ANALYTICAL CHAIN OF CUSTODY

Clz

- 680 Ch...ake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: <u>M/H</u>		Project Name: <u>STANDARD BENDS</u>	
Address: <u>1635 ADAMSON AVE</u>		Billing Address (if different):	
City: <u>ALAMOGADA</u>	State: <u>CA</u>	Zip Code: <u>94501</u>	
Telephone: <u>521-5200</u>	FAX #:	P.O. #:	
Report To: <u>B. Wright</u>	Sampler: <u>ME</u>	QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days 5 Working Days 24 Hours

Analyses Requested

Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	8215m - Inclusive	8270 - 9445	original	Change Element	bulk density	PTK Inorganic	PTK WASTEWATER	Comments
1. 45881	5-22-97	soil	1	ACETATE		X	X						MIL-8 14-14.5'
2. 45882								X	X	X	X		MIL-1 1-2'
3. 45883						X	X						4.5-5.5
4. 45884								X	X	X	X		7-8'
5. 45885						X	X						9.5-10.5
6. 45886								X	X	X	X		14.5-15'
7. 45887						X	X	X					15-16' -8240, NOT O.C.C.
8. 45888 ✓						X	X						MIL-2 4.5-5.5
9. 45889 ✓						X	X	X					9.5-10.5
10. 45890						X	X						14.5-15.5

Relinquished By: <u>Walter G.</u>	Date: <u>5-22-97</u>	Time: <u>1700</u>	Received By: <u>Xpress</u>	Date: <u>5-22-97</u>	Time: <u>1800</u>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>S-Sand</u>	Date: <u>5/23/97</u>	Time: <u>6:00</u>

Pink - Client

Yellow - Sequoia

White - Sequoia

EQUOIA ANALYTICAL

CHAIN OF CUSTODY *CLS*

680 Cheapeake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
 819 Strickland Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: M/H Project Name: STANDARD BRAND
 Address: 1135 ATLANTIC Billing Address (if different):
 City: ALAMEDA State: CA Zip Code: 94521
 Telephone: (510) 521-5200 FAX #: P.O. #:
 Report To: B. Wright Sampler: MK QC Data: Level D (Standard) Level C Level B Level A

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours

Drinking Water
 Waste Water
 Other

Analyses Requested
 10/15%w - calculate on wet basis
 PAKS - 3 & 70
 2240
 moisture content
 bulk density
 bulk porosity
 bulk moisture

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	10/15%w - calculate on wet basis	PAKS - 3 & 70	2240	moisture content	bulk density	bulk porosity	bulk moisture	Comments
1. 45861	5-21-97	SOIL	1	ACETATE		X	X	X					MH-6 4.5-5.5
2. 45862						X	X						9.5-10.5
3. 45863						X	X						14.5-15.5
4. 45864						X	X						19.5-20.5
5. 45865						X	X						MH-4 4.5-5.5
6. 45866						X	X						9.5-10.5
7. 45867						X	X						14.5-15.5
8. 45868						X	X	X					19.5-20.5
9. 45869								X	X	X	X		MH-5 1-2'
10. 45870						X	X						4.5-5.5

Relinquished By: <u>Nathan G.</u>	Date: <u>5-22-97</u>	Time: <u>1800</u>	Received By: <u>X PRESSIT</u>	Date: <u>5-22-97</u>	Time: <u>1800</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: <u>S. Saeed</u>	Date: <u>5/23/97</u>	Time: <u>6:00</u>
Relinquished By: _____	Date: _____	Time: _____	Received By Lab: <u>↓</u>	Date: <u>↓</u>	Time: <u>↓</u>

Pink - Client
 Yellow - Sequoia
 White - Sequoia



- 680 Ch...ake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: M/H Project Name: STANDARD BRANDS

Address: 1135 ATLANTIC AVE Billing Address (if different):

City: ACAMUNDA State: CA Zip Code: 94501

Telephone: 521-5200 FAX #: P.O. #:

Report To: B. WRIGHT Sampler: NK QC Data: Level D (Standard) Level C Level B Level A

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours

Time: 7 Working Days 2 Working Days

5 Working Days 24 Hours

Drinking Water

Waste Water

Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested										Comments
						BOISM	TACUMING	MUMUK-SHUTS	9240	ALUMINUM	CADMIUM	CHLORIDE	BULK DENSITY	TOTAL PHOSPHORUS	TOTAL NITROGEN	
1. 45871	5-22-97	SOIL	1	ACETATE						X	X	X	X			MH-5 7-8'
2. 45872	↓	↓	↓	↓		X	X	X								9.5-10.5
3. 45873						X	X									14-15'
4. 45874									X	X	X	X				15-16'
5. 45875						X	X									19.5-20.5
6. 45876									X	X	X	X				MH-8 1-2'
7. 45877						X	X									4.5-5.5
8. 45878									X	X	X	X				7-8'
9. 45879						X	X	X								9.5-10.5
10. 45880	↓	↓	↓	↓					X	X	X	X				10.5-11

Relinquished By: <u>Nathan K.</u>	Date: <u>5-22-97</u>	Time: <u>1800</u>	Received By: <u>Xpress IT</u>	Date: <u>5-22-97</u>	Time: <u>1800</u>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>Lab. S. Sauced</u>	Date: <u>5/23/97</u>	Time: <u>6.00</u>

Pink - Client
Yellow - Sequoia
White - Sequoia



SEQUIOIA ANALYTICAL CHAIN OF CUSTODY

- 680 Chabot Lake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: <u>M/H</u>		Project Name: <u>STANDARD BRANDS</u>	
Address: <u>1135 ATLANTIC</u>		Billing Address (if different):	
City: <u>ACAMUNDA</u>	State: <u>CA</u>	Zip Code: <u>94501</u>	
Telephone: <u>521-5200</u>		FAX #:	
P.O. #:		QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	
Report To: <u>B. Wright</u>	Sampler: <u>AK</u>		

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours

Analyses Requested
 Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested										Comments			
1. 45891	5-22-92	SOIL	1	ACETATE		X	X												MH-3 4.5-5.5
2. 45892	↓	↓	↓	↓		X	X												9.5-10.5
3. 45893	↓	↓	↓	↓		X	X	X											14.5-15.5
4. 45894	↓	↓	↓	↓		X	X												19.5-20.5
5. 519377-20	5-21-92	H ₂ O	4	VOAS					X										MH-6
6. 519381	↓	↓	↓	AL		X													↓
7. 519382-84	↓	↓	↓	VOAS				X											MH-4
8. 519385	↓	↓	↓	AL		X													↓
9. 519386-88	↓	↓	↓	VOAS					X										MH-8
10. 519389	↓	↓	↓	AL		X													↓

Relinquished By: <u>Nathan G.</u>	Date: <u>5-22-92</u>	Time: <u>1:00</u>	Received By: <u>XPRESS CT</u>	Date: <u>5-22-92</u>	Time: <u>1:00</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By Lab: <u>S. Sandoz</u>	Date: <u>5/23/92</u>	Time: <u>6:00</u>

Pink - Client
Yellow - Sequoia
White - Sequoia

205m - Inclusion of All Mineral Spirits
 2070 - PAHs
 2040

CLS Labs

McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

05/30/97

Attention: Brad Wright

Reference: Analytical Results

Project Name: Standard Brands
Project No.:
Date Received: 05/23/97
Chain Of Custody: NO NUMBER

CLS ID No.: N7676
CLS Job No.: 807676

The following analyses were performed on the above referenced project:

<u>No. of Samples</u>	<u>Turnaround Time</u>	<u>Analysis Description</u>
9	3 Days	Porosity Analysis
9	3 Days	Total Organic Carbon
9	3 Days	Moisture Content, ASTM - D2216 & Density
25	3 Days	TPH Fingerprint, EPA m-8015
3	3 Days	TPH Fingerprint, EPA m-8015
7	3 Days	Volatile Organics by EPA Method 8240
2	3 Days	Volatile Organics by EPA Method 8240
25	3 Days	Semivolatile Organic Compounds by GC/MS


Analysis: Volatile Organic Compounds by GC/MS, EPA Method 8240
Samples MH-6@ 4.5-5.0, MH-4@ 19.5-20.5, MH-5 9.5-10.5, MH-8 9.5-10.5 and MH-2
9.5-10.5 were analyzed by mid-level protocol (EPA Method 8240) due to
significant levels of hydrocarbons in these samples.

These samples were received by CLS Labs in a chilled, intact state and
accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and
pass the EPA's criteria for acceptability.

Analytical results are attached to this letter. Please call if we can provide
additional assistance.

Sincerely,


George Hampton
Laboratory Director

3249 Fitzgerald Road
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3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Total Organic Carbon 9060

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: N/A
Date Analyzed: 05/28/97
Date Reported: 05/29/97

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: W970523B
Instrument ID: NONE
Analyst ID: CHARLESS
Matrix: SOIL

ANALYTICAL RESULTS

Lab / Client ID Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
9B / 45869 MH-5 @ 1.0-2.0'				
Total Organic Carbon	N/A	21000	500	1.0
11B / 45871 MH-5 7.0-8.0'				
Total Organic Carbon	N/A	6000	500	1.0
14B / 45874 MH-5 15.0-16.0'				
Total Organic Carbon	N/A	2100	500	1.0
16B / 45876 MH-8 1.0-2.0'				
Total Organic Carbon	N/A	22000	500	1.0
18B / 45878 MH-8 7.0-8.0'				
Total Organic Carbon	N/A	5200	500	1.0
20B / 45880 MH-8 10.5-11.0'				
Total Organic Carbon	N/A	4000	500	1.0
22B / 45882 MH-1 1.0-2.0'				
Total Organic Carbon	N/A	24000	500	1.0
24B / 45884 MH-1 7.0-8.0'				
Total Organic Carbon	N/A	5200	500	1.0
26B / 45886 MH-1 14.0-15.0'				
Total Organic Carbon	N/A	1000	500	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Total Organic Carbon 9060

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: N/A
Date Analyzed: 05/28/97
Date Reported: 05/29/97

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: W970523B
Instrument ID: NONE
Analyst ID: CHARLESS
Matrix: SOIL

METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Reporting Limit (mg/kg)
Total Organic Carbon	N/A	ND	100

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Total Organic Carbon 9060

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: N/A
Date Analyzed: 05/28/97
Date Reported: 05/29/97

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: W970523B
Instrument ID: NONE
Analyst ID: CHARLESS
Matrix: SOIL

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/kg)	MS Recovery (percent)
Total Organic Carbon	N/A	4130	89

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/kg)	MSD Recovery (percent)
Total Organic Carbon	N/A	4220	95

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Total Organic Carbon	N/A	7

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CLS Labs

Analysis Report: Total Organic Carbon 9060

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: W970523B
Instrument ID: NONE
Analyst ID: CHARLESS
Matrix: SOIL

Date Extracted: N/A
Date Analyzed: 05/28/97
Date Reported: 05/29/97

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Total Organic Carbon	N/A	532	101

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCSD Recovery (percent)
Total Organic Carbon	N/A	532	103

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Total Organic Carbon	N/A	2

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified,
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45861 MH-6 @ 4.5-5.0'

Lab Contact: Ray Osowski
Lab ID No.: N7676-1A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45861 MH-6 @ 4.5-5.0'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	570	200	200

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45862 MH-6 @ 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-2A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45862 MH-6 @ 9.5-10.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	300	200	200
Motor Oil (C22-C32)	N/A	530	200	200

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7676-3A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45863 MH-6 @ 14.5-15.5'

45863 MH-6 @ 14.5-15.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	340	100	100
Motor Oil (C22-C32)	N/A	240	100	100

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/24/97
Date Reported: 05/30/97
Client ID No.: 45864 MH-6 @ 19.5-20.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-4A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45864 MH-6 @ 19.5-20.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	1.5	1.0	1.0
Diesel	N/A	2.2	1.0	1.0
Motor Oil (C22-C32)	N/A	3.2	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

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Fax (916) 852-7292

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45865 MH-4 @ 4.5-5.0'

Lab Contact: Ray Osowski
Lab ID No.: N7676-5A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45865 MH-4 @ 4.5-5.0'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	8.0	5.0	5.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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Rancho Cordova, CA 95742
(916) 638-7301
Fax (916) 638-4510

3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6800
Fax (916) 852-7292

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified.
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/24/97
Date Reported: 05/30/97
Client ID No.: 45866 MH-4 @ 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-6A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45866 MH-4 @ 9.5-10.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	1.1	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/25/97
Date Reported: 05/30/97
Client ID No.: 45867 MH-4 @ 14.5-15.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-7A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45867 MH-4 @ 14.5-15.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Diesel	N/A	16	10	10
Motor Oil (C22-C32)	N/A	20	10	10

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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Fax (916) 852-7292

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45868 MH-4 @ 19.5-20.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-8A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45868 MH-4 @ 19.5-20.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	12	5.0	5.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/24/97
Date Reported: 05/30/97
Client ID No.: 45870 MH-5 @ 4.5-5.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-10A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45870 MH-5 @ 4.5-5.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	2.6	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

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(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45872 MH-5 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-12A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45872 MH-5 9.5-10.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	44	20	20
Motor Oil (C22-C32)	N/A	35	20	20

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 45873 MH-5 14.0-15.0'

Lab Contact: Ray Osowski
Lab ID No.: N7676-13A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45873 MH-5 14.0-15.0'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	100	50	50

ND = Not detected at or above indicated Reporting Limit

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Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7676-15A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/24/97
Date Reported: 05/30/97
Client ID No.: 45875 MH-5 19.5-20.5'

45875 MH-5 19.5-20.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	1.4	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45877 MH-8 4.5-5.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-17A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45877 MH-8 4.5-5.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	1500	400	400
Diesel	N/A	1200	400	400

ND = Not detected at or above indicated Reporting Limit

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Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 45879 MH-8 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-19A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45879 MH-8 9.5-10.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	910	400	400
Diesel	N/A	570	400	400

ND = Not detected at or above indicated Reporting Limit

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Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45881 MH-8 14.0-14.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-21A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45881 MH-8 14.0-14.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	880	400	400
Diesel	N/A	400	400	400

ND = Not detected at or above indicated Reporting Limit

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Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/29/97
Date Reported: 05/30/97
Client ID No.: 45883 MH-1 4.5-5.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-23A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45883 MH-1 4.5-5.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	130	100	100

ND = Not detected at or above indicated Reporting Limit

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Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45885 MH-1 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-25A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45885 MH-1 9.5-10.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	4500	500	500

ND = Not detected at or above indicated Reporting Limit

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Analysis Report: Fuel Fingerprinting, EPA 8015 Modified.
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7676-27A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 45887 MH-1 15.0-16.0'

45887 MH-1 15.0-16.0'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	330	200	200

ND = Not detected at or above indicated Reporting Limit

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Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
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Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/29/97
Date Reported: 05/30/97
Client ID No.: 45888 MH-2 4.5-5.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-28A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45888 MH-2 4.5-5.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Petroleum Hydrocarbons (C7-C32)	N/A	ND(AI)	5.0	5.0

AI = All report limits have been elevated due to matrix interference.

ND = Not detected at or above indicated Reporting Limit

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Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
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Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45889 MH-2 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-29A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

45889 MH-2 9.5-10.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	19	10	10

ND = Not detected at or above indicated Reporting Limit

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Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

Date Extracted: 05/23/97
Date Analyzed: 05/24/97
Date Reported: 05/30/97

METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Reporting Limit (mg/kg)
Petroleum Hydrocarbons (C7-C32)	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit

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Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: 05/23/97
Date Analyzed: 05/24/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51122
Instrument ID: PGC04
Analyst ID: SEPIDEHS
Matrix: SOIL

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Diesel (C12-C22)	N/A	5.00	95

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCSD Recovery (percent)
Diesel (C12-C22)	N/A	5.00	98

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Diesel (C12-C22)	N/A	3

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Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
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Client: McLaren/Hart-Alameda
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Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/24/97
Date Reported: 05/30/97
Client ID No.: 45890 MH-2 14.5-15.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-30A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51123
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

45890 MH-2 14.5-15.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Petroleum Hydrocarbons (C7-C32)	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

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Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
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Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/24/97
Date Reported: 05/30/97
Client ID No.: 45891 MH-3 4.5-5.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-31A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51123
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

45891 MH-3 4.5-5.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	5.7	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

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Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/24/97
Date Reported: 05/30/97
Client ID No.: 45892 MH-3 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-32A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51123
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

45892 MH-3 9.5-10.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	3.6	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7676-33A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51123
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 45893 MH-3 14.5-15.5'

45893 MH-3 14.5-15.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	1.1	1.0	1.0
Motor Oil (C22-C32)	N/A	1.3	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

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Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/24/97
Date Reported: 05/30/97
Client ID No.: 45894 MH-3 19.5-20.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-34A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51123
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

45894 MH-3 19.5-20.5'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	3.2	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
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Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Extracted: 05/23/97
Date Analyzed: 05/24/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51123
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Reporting Limit (mg/kg)
Petroleum Hydrocarbons (C7-C32)	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit

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Fax (916) 638-4510

3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified.
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: 05/23/97
Date Analyzed: 05/24/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51123
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Diesel (C12-C22)	N/A	5.00	89

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCSD Recovery (percent)
Diesel (C12-C22)	N/A	5.00	105

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Diesel (C12-C22)	N/A	16

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 519381 MH-6

Lab Contact: Ray Osowski
Lab ID No.: N7676-36A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51127
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

519381 MH-6

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	96	6.1	100
Motor Oil (C22-C32)	N/A	100	6.1	100

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 519385 MH-4

Lab Contact: Ray Osowski
Lab ID No.: N7676-38A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51127
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

519385 MH-4

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
Diesel	N/A	88	20	400
Motor Oil (C22-C32)	N/A	47	20	400

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 519389 MH-8

Lab Contact: Ray Osowski
Lab ID No.: N7676-40A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51127
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

519389 MH-8

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	300	24	400
Diesel	N/A	190	24	400

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51127
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Reporting Limit (mg/L)
Petroleum Hydrocarbons (C7-C32)	N/A	ND	0.050

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51127
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Diesel (C12-C22)	N/A	0.500	84

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/L)	LCSD Recovery (percent)
Diesel (C12-C22)	N/A	0.500	85

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Diesel (C12-C22)	N/A	1

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/30/97
Client ID No.: 45861 MH-6 @ 4.5-5.0'

Lab Contact: Ray Osowski
Lab ID No.: N7676-1A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	128 (CI)
2-Fluorophenol	367-12-4	2500	89
2,4,6-Tribromophenol	118-79-6	2500	80
Nitrobenzene-d5	4665-60-0	1670	69
2-Fluorobiphenyl	321-60-8	1670	64
Terphenyl-d14	98904-43-9	1670	99

CI = Recovery data is outside standard QC limits due to coextracted interference. LCS recovery data validates methodology.

45861 MH-6 @ 4.5-5.0'

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	900	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/30/97
Client ID No.: 45862 MH-6 @ 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-2A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	100
2-Fluorophenol	367-12-4	2500	76
2,4,6-Tribromophenol	118-79-6	2500	98
Nitrobenzene-d5	4665-60-0	1670	67
2-Fluorobiphenyl	321-60-8	1670	69
Terphenyl-d14	98904-43-9	1670	79
45862 MH-6 @ 9.5-10.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	660	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/30/97
Client ID No.: 45863 MH-6 @ 14.5-15.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-3A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	83
2-Fluorophenol	367-12-4	2500	60
2,4,6-Tribromophenol	118-79-6	2500	104
Nitrobenzene-d5	4665-60-0	1670	64
2-Fluorobiphenyl	321-60-8	1670	66
Terphenyl-d14	98904-43-9	1670	80

45863 MH-6 @ 14.5-15.5'

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo(a)anthracene	56-55-3	ND	330	1.0
Benzo(b)fluoranthene	205-99-2	ND	330	1.0
Benzo(k)fluoranthene	207-08-9	ND	330	1.0
Benzo(g,h,i)perylene	191-24-2	ND	330	1.0
Benzo(a)pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo(a,h)anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	370	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/30/97
Client ID No.: 45864 MH-6 @ 19.5-20.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-4A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	87
2-Fluorophenol	367-12-4	2500	71
2,4,6-Tribromophenol	118-79-6	2500	112
Nitrobenzene-d5	4665-60-0	1670	57
2-Fluorobiphenyl	321-60-8	1670	54
Terphenyl-d14	98904-43-9	1670	98

45864 MH-6 @ 19.5-20.5'

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g,h,i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a,h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1,2,3-c,d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/30/97
Client ID No.: 45865 MH-4 @ 4.5-5.0'

Lab Contact: Ray Osowski
Lab ID No.: N7676-5A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	112
2-Fluorophenol	367-12-4	2500	93
2,4,6-Tribromophenol	118-79-6	2500	106
Nitrobenzene-d5	4665-60-0	1670	72
2-Fluorobiphenyl	321-60-8	1670	69
Terphenyl-d14	98904-43-9	1670	112

45865 MH-4 @ 4.5-5.0'

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/30/97
Client ID No.: 45866 MH-4 @ 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-6A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	84
2-Fluorophenol	367-12-4	2500	73
2,4,6-Tribromophenol	118-79-6	2500	80
Nitrobenzene-d5	4665-60-0	1670	63
2-Fluorobiphenyl	321-60-8	1670	62
Terphenyl-d14	98904-43-9	1670	92
45866 MH-4 @ 9.5-10.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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Fax (916) 638-4510

3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
 Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
 1135 Atlantic Avenue
 Alameda, CA 94501

Project No.:
 Contact: Brad Wright
 Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
 Date Received: 05/23/97
 Date Extracted: 05/23/97
 Date Analyzed: 05/23/97
 Date Reported: 05/30/97
 Client ID No.: 45867 MH-4 @ 14.5-15.5'

Lab Contact: Ray Osowski
 Lab ID No.: N7676-7A
 Job No.: 807676
 COC Log No.: NO NUMBER
 Batch No.: 51120
 Instrument ID: MS01
 Analyst ID: MARKW
 Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	90
2-Fluorophenol	367-12-4	2500	78
2,4,6-Tribromophenol	118-79-6	2500	97
Nitrobenzene-d5	4665-60-0	1670	65
2-Fluorobiphenyl	321-60-8	1670	60
Terphenyl-d14	98904-43-9	1670	111

45867 MH-4 @ 14.5-15.5'

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo(a)anthracene	56-55-3	ND	330	1.0
Benzo(b)fluoranthene	205-99-2	ND	330	1.0
Benzo(k)fluoranthene	207-08-9	ND	330	1.0
Benzo(g,h,i)perylene	191-24-2	ND	330	1.0
Benzo(a)pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo(a,h)anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
 Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
 1135 Atlantic Avenue
 Alameda, CA 94501

Project No.:
 Contact: Brad Wright
 Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/21/97
 Date Received: 05/23/97
 Date Extracted: 05/23/97
 Date Analyzed: 05/23/97
 Date Reported: 05/30/97
 Client ID No.: 45868 MH-4 @ 19.5-20.5'

Lab Contact: Ray Osowski
 Lab ID No.: N7676-8A
 Job No.: 807676
 COC Log No.: NO NUMBER
 Batch No.: 51120
 Instrument ID: MS01
 Analyst ID: MARKW
 Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	106
2-Fluorophenol	367-12-4	2500	87
2,4,6-Tribromophenol	118-79-6	2500	121
Nitrobenzene-d5	4665-60-0	1670	71
2-Fluorobiphenyl	321-60-8	1670	66
Terphenyl-d14	98904-43-9	1670	106

45868 MH-4 @ 19.5-20.5'

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo(a)anthracene	56-55-3	ND	330	1.0
Benzo(b)fluoranthene	205-99-2	ND	330	1.0
Benzo(k)fluoranthene	207-08-9	ND	330	1.0
Benzo(g,h,i)perylene	191-24-2	ND	330	1.0
Benzo(a)pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo(a,h)anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45870 MH-5 @ 4.5-5.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-10A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	68
2-Fluorophenol	367-12-4	2500	70
2,4,6-Tribromophenol	118-79-6	2500	77
Nitrobenzene-d5	4665-60-0	1670	59
2-Fluorobiphenyl	321-60-8	1670	60
Terphenyl-d14	98904-43-9	1670	72

45870 MH-5 @ 4.5-5.5'

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45872 MH-5 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-12A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	66
2-Fluorophenol	367-12-4	2500	62
2,4,6-Tribromophenol	118-79-6	2500	73
Nitrobenzene-d5	4665-60-0	1670	53
2-Fluorobiphenyl	321-60-8	1670	57
Terphenyl-d14	98904-43-9	1670	67
45872 MH-5 9.5-10.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45873 MH-5 14.0-15.0'

Lab Contact: Ray Osowski
Lab ID No.: N7676-13A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	58
2-Fluorophenol	367-12-4	2500	55
2,4,6-Tribromophenol	118-79-6	2500	79
Nitrobenzene-d5	4665-60-0	1670	47
2-Fluorobiphenyl	321-60-8	1670	47
Terphenyl-d14	98904-43-9	1670	69
45873 MH-5 14.0-15.0'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45875 MH-5 19.5-20.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-15A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	70
2-Fluorophenol	367-12-4	2500	70
2,4,6-Tribromophenol	118-79-6	2500	82
Nitrobenzene-d5	4665-60-0	1670	60
2-Fluorobiphenyl	321-60-8	1670	59
Terphenyl-d14	98904-43-9	1670	75
45875 MH-5 19.5-20.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1,2,3-c,d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45877 MH-8 4.5-5.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-17A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	50
2-Fluorophenol	367-12-4	2500	41
2,4,6-Tribromophenol	118-79-6	2500	50
Nitrobenzene-d5	4665-60-0	1670	43
2-Fluorobiphenyl	321-60-8	1670	48
Terphenyl-d14	98904-43-9	1670	53

45877 MH-8 4.5-5.5'

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	680	330	1.0
Naphthalene	91-20-3	3000	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45879 MH-8 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-19A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	73
2-Fluorophenol	367-12-4	2500	54
2,4,6-Tribromophenol	118-79-6	2500	83
Nitrobenzene-d5	4665-60-0	1670	47
2-Fluorobiphenyl	321-60-8	1670	62
Terphenyl-d14	98904-43-9	1670	73
45879 MH-8 9.5-10.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	710	330	1.0
Naphthalene	91-20-3	3400	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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(916) 852-6600
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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45881 MH-8 14.0-14.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-21A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	71
2-Fluorophenol	367-12-4	2500	64
2,4,6-Tribromophenol	118-79-6	2500	91
Nitrobenzene-d5	4665-60-0	1670	57
2-Fluorobiphenyl	321-60-8	1670	64
Terphenyl-d14	98904-43-9	1670	75
45881 MH-8 14.0-14.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo(a)anthracene	56-55-3	ND	330	1.0
Benzo(b)fluoranthene	205-99-2	ND	330	1.0
Benzo(k)fluoranthene	207-08-9	ND	330	1.0
Benzo(g,h,i)perylene	191-24-2	ND	330	1.0
Benzo(a)pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo(a,h)anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	1400	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45883 MH-1 4.5-5.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-23A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	73
2-Fluorophenol	367-12-4	2500	72
2,4,6-Tribromophenol	118-79-6	2500	77
Nitrobenzene-d5	4665-60-0	1670	60
2-Fluorobiphenyl	321-60-8	1670	68
Terphenyl-d14	98904-43-9	1670	56
45883 MH-1 4.5-5.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45885 MH-1 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-25A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	73
2-Fluorophenol	367-12-4	2500	76
2,4,6-Tribromophenol	118-79-6	2500	90
Nitrobenzene-d5	4665-60-0	1670	68
2-Fluorobiphenyl	321-60-8	1670	70
Terphenyl-d14	98904-43-9	1670	47
45885 MH-1 9.5-10.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo(a)anthracene	56-55-3	ND	330	1.0
Benzo(b)fluoranthene	205-99-2	ND	330	1.0
Benzo(k)fluoranthene	207-08-9	ND	330	1.0
Benzo(g,h,i)perylene	191-24-2	ND	330	1.0
Benzo(a)pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo(a,h)anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45887 MH-1 15.0-16.0'

Lab Contact: Ray Osowski
Lab ID No.: N7676-27A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	65
2-Fluorophenol	367-12-4	2500	67
2,4,6-Tribromophenol	118-79-6	2500	81
Nitrobenzene-d5	4665-60-0	1670	54
2-Fluorobiphenyl	321-60-8	1670	64
Terphenyl-d14	98904-43-9	1670	54
45887 MH-1 15.0-16.0'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo(a)anthracene	56-55-3	ND	330	1.0
Benzo(b)fluoranthene	205-99-2	ND	330	1.0
Benzo(k)fluoranthene	207-08-9	ND	330	1.0
Benzo(g,h,i)perylene	191-24-2	ND	330	1.0
Benzo(a)pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo(a,h)anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45888 MH-2 4.5-5.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-28A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	60
2-Fluorophenol	367-12-4	2500	62
2,4,6-Tribromophenol	118-79-6	2500	75
Nitrobenzene-d5	4665-60-0	1670	51
2-Fluorobiphenyl	321-60-8	1670	54
Terphenyl-d14	98904-43-9	1670	71
45888 MH-2 4.5-5.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo(a)anthracene	56-55-3	ND	330	1.0
Benzo(b)fluoranthene	205-99-2	ND	330	1.0
Benzo(k)fluoranthene	207-08-9	ND	330	1.0
Benzo(g,h,i)perylene	191-24-2	ND	330	1.0
Benzo(a)pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo(a,h)anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/27/97
Date Reported: 05/30/97
Client ID No.: 45889 MH-2 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-29A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	66
2-Fluorophenol	367-12-4	2500	67
2,4,6-Tribromophenol	118-79-6	2500	74
Nitrobenzene-d5	4665-60-0	1670	55
2-Fluorobiphenyl	321-60-8	1670	58
Terphenyl-d14	98904-43-9	1670	73
45889 MH-2 9.5-10.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo(a)anthracene	56-55-3	ND	330	1.0
Benzo(b)fluoranthene	205-99-2	ND	330	1.0
Benzo(k)fluoranthene	207-08-9	ND	330	1.0
Benzo(g,h,i)perylene	191-24-2	ND	330	1.0
Benzo(a)pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo(a,h)anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	MB Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	86
2-Fluorophenol	367-12-4	2500	72
2,4,6-Tribromophenol	118-79-6	2500	76
Nitrobenzene-d5	4665-60-0	1670	64
2-Fluorobiphenyl	321-60-8	1670	62
Terphenyl-d14	98904-43-9	1670	101

METHOD BLANK

Analyte	CAS No.	Results (ug/kg)	Reporting Limit (ug/kg)
Acenaphthene	83-32-9	ND	330
Acenaphthylene	208-96-8	ND	330
Anthracene	120-12-7	ND	330
Benzo (a) anthracene	56-55-3	ND	330
Benzo (b) fluoranthene	205-99-2	ND	330
Benzo (k) fluoranthene	207-08-9	ND	330
Benzo (g, h, i) perylene	191-24-2	ND	330
Benzo (a) pyrene	50-32-8	ND	330
Chrysene	218-01-9	ND	330
Dibenzo (a, h) anthracene	53-70-3	ND	330
Dibenzofuran	132-64-9	ND	330
Fluoranthene	206-44-0	ND	330
Fluorene	86-73-7	ND	330
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330
2-Methylnaphthalene	91-57-6	ND	330
Naphthalene	91-20-3	ND	330
Phenanthrene	85-01-8	ND	330
Pyrene	129-00-0	ND	330

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

Date Extracted: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/30/97

LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	86
2-Fluorophenol	367-12-4	2500	75
2,4,6-Tribromophenol	118-79-6	2500	84
Nitrobenzene-d5	4665-60-0	1670	72
2-Fluorobiphenyl	321-60-8	1670	70
Terphenyl-d14	98904-43-9	1670	106

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Recovery (percent)
1,2,4-Trichlorobenzene	120-82-1	1670	70
Acenaphthene	83-32-9	1670	74
2,4-DNT (2,4-Dinitrotoluene)	121-14-2	1670	60
Pyrene	129-00-0	1670	103
N-Nitroso-di-n-propylamine	621-64-7	1670	69
1,4-Dichlorobenzene	106-46-7	1670	78
Pentachlorophenol	87-86-5	2500	74
Phenol	108-95-2	2500	83
2-Chlorophenol	95-57-8	2500	76
4-Chloro-3-methylphenol	59-50-7	2500	109
4-Nitrophenol	100-02-7	2500	74

LCS DUPLICATE SURROGATE

Analyte	CAS No.	LCSD Conc. (ug/kg)	LCSD Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	90
2-Fluorophenol	367-12-4	2500	82
2,4,6-Tribromophenol	118-79-6	2500	77
Nitrobenzene-d5	4665-60-0	1670	71
2-Fluorobiphenyl	321-60-8	1670	72
Terphenyl-d14	98904-43-9	1670	101

CA DOHS ELAP Accreditation/Registration Number 1233

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(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51120
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCSD Recovery (percent)
1,2,4-Trichlorobenzene	120-82-1	1670	69
Acenaphthene	83-32-9	1670	78
2,4-DNT (2,4-Dinitrotoluene)	121-14-2	1670	61
Pyrene	129-00-0	1670	109
N-Nitroso-di-n-propylamine	621-64-7	1670	68
1,4-Dichlorobenzene	106-46-7	1670	83
Pentachlorophenol	87-86-5	2500	71
Phenol	108-95-2	2500	84
2-Chlorophenol	95-57-8	2500	81
4-Chloro-3-methylphenol	59-50-7	2500	106
4-Nitrophenol	100-02-7	2500	67

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
1,2,4-Trichlorobenzene	120-82-1	1
Acenaphthene	83-32-9	5
2,4-DNT (2,4-Dinitrotoluene)	121-14-2	2
Pyrene	129-00-0	6
N-Nitroso-di-n-propylamine	621-64-7	1
1,4-Dichlorobenzene	106-46-7	6
Pentachlorophenol	87-86-5	4
Phenol	108-95-2	1
2-Chlorophenol	95-57-8	6
4-Chloro-3-methylphenol	59-50-7	3
4-Nitrophenol	100-02-7	10

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 45890 MH-2 14.5-15.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-30A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51121
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	74
2-Fluorophenol	367-12-4	2500	68
2,4,6-Tribromophenol	118-79-6	2500	72
Nitrobenzene-d5	4665-60-0	1670	68
2-Fluorobiphenyl	321-60-8	1670	86
Terphenyl-d14	98904-43-9	1670	96
45890 MH-2 14.5-15.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo(a)anthracene	56-55-3	ND	330	1.0
Benzo(b)fluoranthene	205-99-2	ND	330	1.0
Benzo(k)fluoranthene	207-08-9	ND	330	1.0
Benzo(g,h,i)perylene	191-24-2	ND	330	1.0
Benzo(a)pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo(a,h)anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road
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3083 Gold Canal Drive
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(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 45891 MH-3 4.5-5.5'

Lab Contact: Ray Oslowski
Lab ID No.: N7676-31A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51121
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	47
2-Fluorophenol	367-12-4	2500	41
2,4,6-Tribromophenol	118-79-6	2500	41
Nitrobenzene-d5	4665-60-0	1670	40
2-Fluorobiphenyl	321-60-8	1670	52
Terphenyl-d14	98904-43-9	1670	51
45891 MH-3 4.5-5.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo(a)anthracene	56-55-3	ND	330	1.0
Benzo(b)fluoranthene	205-99-2	ND	330	1.0
Benzo(k)fluoranthene	207-08-9	ND	330	1.0
Benzo(g,h,i)perylene	191-24-2	ND	330	1.0
Benzo(a)pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo(a,h)anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
 Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
 1135 Atlantic Avenue
 Alameda, CA 94501

Project No.:
 Contact: Brad Wright
 Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
 Date Received: 05/23/97
 Date Extracted: 05/23/97
 Date Analyzed: 05/28/97
 Date Reported: 05/30/97
 Client ID No.: 45892 MH-3 9.5-10.5'

Lab Contact: Ray Osowski
 Lab ID No.: N7676-32A
 Job No.: 807676
 COC Log No.: NO NUMBER
 Batch No.: 51121
 Instrument ID: MS001
 Analyst ID: KALVINL
 Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	77
2-Fluorophenol	367-12-4	2500	69
2,4,6-Tribromophenol	118-79-6	2500	74
Nitrobenzene-d5	4665-60-0	1670	72
2-Fluorobiphenyl	321-60-8	1670	87
Terphenyl-d14	98904-43-9	1670	91
45892 MH-3 9.5-10.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 45893 MH-3 14.5-15.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-33A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51121
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	73
2-Fluorophenol	367-12-4	2500	66
2,4,6-Tribromophenol	118-79-6	2500	77
Nitrobenzene-d5	4665-60-0	1670	66
2-Fluorobiphenyl	321-60-8	1670	83
Terphenyl-d14	98904-43-9	1670	88
<hr/>			
45893 MH-3 14.5-15.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 45894 MH-3 19.5-20.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-34A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51121
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	76
2-Fluorophenol	367-12-4	2500	67
2,4,6-Tribromophenol	118-79-6	2500	69
Nitrobenzene-d5	4665-60-0	1670	71
2-Fluorobiphenyl	321-60-8	1670	89
Terphenyl-d14	98904-43-9	1670	91
45894 MH-3 19.5-20.5'			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97

Lab Contact: Ray Oslowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51121
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: SOIL

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	MB Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	76
2-Fluorophenol	367-12-4	2500	72
2,4,6-Tribromophenol	118-79-6	2500	72
Nitrobenzene-d5	4665-60-0	1670	77
2-Fluorobiphenyl	321-60-8	1670	93
Terphenyl-d14	98904-43-9	1670	93

METHOD BLANK

Analyte	CAS No.	Results (ug/kg)	Reporting Limit (ug/kg)
Acenaphthene	83-32-9	ND	330
Acenaphthylene	208-96-8	ND	330
Anthracene	120-12-7	ND	330
Benzo(a)anthracene	56-55-3	ND	330
Benzo(b)fluoranthene	205-99-2	ND	330
Benzo(k)fluoranthene	207-08-9	ND	330
Benzo(g,h,i)perylene	191-24-2	ND	330
Benzo(a)pyrene	50-32-8	ND	330
Chrysene	218-01-9	ND	330
Dibenzo(a,h)anthracene	53-70-3	ND	330
Dibenzofuran	132-64-9	ND	330
Fluoranthene	206-44-0	ND	330
Fluorene	86-73-7	ND	330
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	330
2-Methylnaphthalene	91-57-6	ND	330
Naphthalene	91-20-3	ND	330
Phenanthrene	85-01-8	ND	330
Pyrene	129-00-0	ND	330

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51121
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: SOIL

LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	74
2-Fluorophenol	367-12-4	2500	70
2,4,6-Tribromophenol	118-79-6	2500	89
Nitrobenzene-d5	4665-60-0	1670	78
2-Fluorobiphenyl	321-60-8	1670	93
Terphenyl-d14	98904-43-9	1670	99

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Recovery (percent)
1,2,4-Trichlorobenzene	120-82-1	1670	82
Acenaphthene	83-32-9	1670	85
24DNT (2,4-Dinitrotoluene)	121-14-2	1670	61
Pyrene	129-00-0	1670	105
N-Nitroso-di-n-propylamine	621-64-7	1670	81
1,4-Dichlorobenzene	106-46-7	1670	75
Pentachlorophenol	87-86-5	2500	90
Phenol	108-95-2	2500	80
2-Chlorophenol	95-57-8	2500	82
4-Chloro-3-methylphenol	59-50-7	2500	80
4-Nitrophenol	100-02-7	2500	37

LCS DUPLICATE SURROGATE

Analyte	CAS No.	LCSD Conc. (ug/kg)	LCSD Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	76
2-Fluorophenol	367-12-4	2500	76
2,4,6-Tribromophenol	118-79-6	2500	89
Nitrobenzene-d5	4665-60-0	1670	81
2-Fluorobiphenyl	321-60-8	1670	90
Terphenyl-d14	98904-43-9	1670	95

CA DOHS ELAP Accreditation/Registration Number 1233

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(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51121
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: SOIL

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCSD Recovery (percent)
1,2,4-Trichlorobenzene	120-82-1	1670	86
Acenaphthene	83-32-9	1670	84
24DNT (2,4-Dinitrotoluene)	121-14-2	1670	66
Pyrene	129-00-0	1670	99
N-Nitroso-di-n-propylamine	621-64-7	1670	83
1,4-Dichlorobenzene	106-46-7	1670	77
Pentachlorophenol	87-86-5	2500	91
Phenol	108-95-2	2500	74
2-Chlorophenol	95-57-8	2500	84
4-Chloro-3-methylphenol	59-50-7	2500	83
4-Nitrophenol	100-02-7	2500	46

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
1,2,4-Trichlorobenzene	120-82-1	5
Acenaphthene	83-32-9	1
24DNT (2,4-Dinitrotoluene)	121-14-2	8
Pyrene	129-00-0	6
N-Nitroso-di-n-propylamine	621-64-7	2
1,4-Dichlorobenzene	106-46-7	3
Pentachlorophenol	87-86-5	1
Phenol	108-95-2	8
2-Chlorophenol	95-57-8	2
4-Chloro-3-methylphenol	59-50-7	4
4-Nitrophenol	100-02-7	22

CA DOHS ELAP Accreditation/Registration Number 1233

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Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Prepared: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/29/97
Client ID No.: 45861 MH-6 @ 4.5-5.0'

Lab Contact: Ray Osowski
Lab ID No.: N7676-1A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	5000	99
Toluene-d8	N/A	5000	114
p-Bromofluorobenzene	460-00-4	5000	260(CI)

CI = Recovery data is outside standard QC limits due to coextracted interference. LCS recovery data validates methodology.

45861 MH-6 @ 4.5-5.0'

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
1,1,1-Trichloroethane	71-55-6	ND	500	1.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	500	1.0
1,1,2-Trichloroethane	79-00-5	ND	500	1.0
1,1-Dichloroethane	75-34-3	ND	500	1.0
1,1-Dichloroethene	75-35-4	ND	500	1.0
1,2-Dichlorobenzene	95-50-1	ND	500	1.0
1,2-Dichloroethane	107-06-2	ND	500	1.0
1,2-Dichloropropane	78-87-5	ND	500	1.0
1,3-Dichlorobenzene	541-73-1	ND	500	1.0
1,4-Dichlorobenzene	106-46-7	ND	500	1.0
2-Butanone	78-93-3	ND	2500	1.0
2-Hexanone	591-78-6	ND	2500	1.0
4-Methyl-2-pentanone	108-10-1	ND	2500	1.0
Acetone	67-64-1	ND	2500	1.0
Benzene	71-43-2	ND	500	1.0
Bromodichloromethane	75-27-4	ND	500	1.0
Bromoform	75-25-2	ND	500	1.0
Bromomethane	74-83-9	ND	1000	1.0
Carbon disulfide	75-15-0	ND	500	1.0
Carbon tetrachloride	56-23-5	ND	500	1.0
Chlorobenzene	108-90-7	ND	500	1.0
Chloroethane	75-00-3	ND	1000	1.0
Chloroform	67-66-3	ND	500	1.0
Chloromethane	74-87-3	ND	1000	1.0
Dibromochloromethane	124-48-1	ND	500	1.0
Ethylbenzene	100-41-4	ND	500	1.0
Methylene chloride	75-09-2	ND	500	1.0
Styrene	100-42-5	ND	500	1.0
Tetrachloroethene	127-18-4	ND	500	1.0
Toluene	108-88-3	ND	500	1.0

ND = Not detected at or above indicated Reporting Limit

CA DMS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road
Rancho Cordova, CA 95742
(916) 638-7301
Fax (916) 638-4510

3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6800
Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Prepared: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/29/97
Client ID No.: 45861 MH-6 @ 4.5-5.0'

Lab Contact: Ray Osowski
Lab ID No.: N7676-1A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

45861 MH-6 @ 4.5-5.0' (cont.)

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Trichloroethene	79-01-6	ND	500	1.0
Trichlorofluoromethane	75-69-4	ND	1000	1.0
Vinyl chloride	75-01-4	ND	1000	1.0
cis-1,2-Dichloroethene	156-59-2	ND	500	1.0
cis-1,3-Dichloropropene	10061-01-5	ND	500	1.0
m/p-Xylenes	N/A	ND	500	1.0
o-Xylenes	95-47-6	ND	500	1.0
trans-1,2-Dichloroethene	156-60-5	ND	500	1.0
trans-1,3-Dichloropropene	10061-02-6	ND	500	1.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/29/97
Client ID No.: 45872 MH-5 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-12A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

45872 MH-5 9.5-10.5' (cont.)

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Trichloroethene	79-01-6	ND	500	1.0
Trichlorofluoromethane	75-69-4	ND	1000	1.0
Vinyl chloride	75-01-4	ND	1000	1.0
cis-1,2-Dichloroethene	156-59-2	ND	500	1.0
cis-1,3-Dichloropropene	10061-01-5	ND	500	1.0
m/p-Xylenes	N/A	ND	500	1.0
o-Xylenes	95-47-6	ND	500	1.0
trans-1,2-Dichloroethene	156-60-5	ND	500	1.0
trans-1,3-Dichloropropene	10061-02-6	ND	500	1.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/29/97
Client ID No.: 45879 MH-8 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-19A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	5000	98
Toluene-d8	N/A	5000	116
p-Bromofluorobenzene	460-00-4	5000	204(CI)

CI = Recovery data is outside standard QC limits due to coextracted interference. LCS recovery data validates methodology.

45879 MH-8 9.5-10.5'

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
1,1,1-Trichloroethane	71-55-6	ND	500	1.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	500	1.0
1,1,2-Trichloroethane	79-00-5	ND	500	1.0
1,1-Dichloroethane	75-34-3	ND	500	1.0
1,1-Dichloroethene	75-35-4	ND	500	1.0
1,2-Dichlorobenzene	95-50-1	ND	500	1.0
1,2-Dichloroethane	107-06-2	ND	500	1.0
1,2-Dichloropropane	78-87-5	ND	500	1.0
1,3-Dichlorobenzene	541-73-1	ND	500	1.0
1,4-Dichlorobenzene	106-46-7	ND	500	1.0
2-Butanone	78-93-3	ND	2500	1.0
2-Hexanone	591-78-6	ND	2500	1.0
4-Methyl-2-pentanone	108-10-1	ND	2500	1.0
Acetone	67-64-1	ND	2500	1.0
Benzene	71-43-2	ND	500	1.0
Bromodichloromethane	75-27-4	ND	500	1.0
Bromoform	75-25-2	ND	500	1.0
Bromomethane	74-83-9	ND	1000	1.0
Carbon disulfide	75-15-0	ND	500	1.0
Carbon tetrachloride	56-23-5	ND	500	1.0
Chlorobenzene	108-90-7	ND	500	1.0
Chloroethane	75-00-3	ND	1000	1.0
Chloroform	67-66-3	ND	500	1.0
Chloromethane	74-87-3	ND	1000	1.0
Dibromochloromethane	124-48-1	ND	500	1.0
Ethylbenzene	100-41-4	ND	500	1.0
Methylene chloride	75-09-2	ND	500	1.0
Styrene	100-42-5	ND	500	1.0
Tetrachloroethene	127-18-4	ND	500	1.0
Toluene	108-88-3	ND	500	1.0

ND = Not detected at or above indicated Reporting Limit

CA DWS ELAP Accreditation/Registration Number 1230

3249 Fitzgerald Road
Rancho Cordova, CA 95742
(916) 638-7301
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Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/29/97
Client ID No.: 45879 MH-8 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: M7676-19A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: FRAGSG
Matrix: SOIL

45879 MH-8 9.5-10.5' (cont.)

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Trichloroethene	79-01-6	ND	500	1.0
Trichlorofluoromethane	75-69-4	ND	1000	1.0
Vinyl chloride	75-01-4	ND	1000	1.0
cis-1,2-Dichloroethene	156-59-2	ND	500	1.0
cis-1,3-Dichloropropene	10061-01-5	ND	500	1.0
m/p-Xylenes	N/A	ND	500	1.0
o-Xylenes	95-47-6	ND	500	1.0
trans-1,2-Dichloroethene	156-60-5	ND	500	1.0
trans-1,3-Dichloropropene	10061-02-6	ND	500	1.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7676-27A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/29/97
Client ID No.: 45887 MH-1 15.0-16.0'

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	94
Toluene-d8	N/A	50.0	95
p-Bromofluorobenzene	460-00-4	50.0	95

45887 MH-1 15.0-16.0'

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
1,1,1-Trichloroethane	71-55-6	ND	5.0	1.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0	1.0
1,1,2-Trichloroethane	79-00-5	ND	5.0	1.0
1,1-Dichloroethane	75-34-3	ND	5.0	1.0
1,1-Dichloroethene	75-35-4	ND	5.0	1.0
1,2-Dichlorobenzene	95-50-1	ND	5.0	1.0
1,2-Dichloroethane	107-06-2	ND	5.0	1.0
1,2-Dichloropropane	78-87-5	ND	5.0	1.0
1,3-Dichlorobenzene	541-73-1	ND	5.0	1.0
1,4-Dichlorobenzene	106-46-7	ND	5.0	1.0
2-Butanone	78-93-3	ND	25	1.0
2-Hexanone	591-78-6	ND	25	1.0
4-Methyl-2-pentanone	108-10-1	ND	25	1.0
Acetone	67-64-1	ND	25	1.0
Benzene	71-43-2	ND	5.0	1.0
Bromodichloromethane	75-27-4	ND	5.0	1.0
Bromoform	75-25-2	ND	5.0	1.0
Bromomethane	74-83-9	ND	10	1.0
Carbon disulfide	75-15-0	ND	5.0	1.0
Carbon tetrachloride	56-23-5	ND	5.0	1.0
Chlorobenzene	108-90-7	ND	5.0	1.0
Chloroethane	75-00-3	ND	10	1.0
Chloroform	67-66-3	ND	5.0	1.0
Chloromethane	74-87-3	ND	10	1.0
Dibromochloromethane	124-48-1	ND	5.0	1.0
Ethylbenzene	100-41-4	ND	5.0	1.0
Methylene chloride	75-09-2	ND	5.0	1.0
Styrene	100-42-5	ND	5.0	1.0
Tetrachloroethene	127-18-4	ND	5.0	1.0
Toluene	108-88-3	ND	5.0	1.0
Trichloroethene	79-01-6	ND	5.0	1.0
Trichlorofluoromethane	75-69-4	ND	10	1.0
Vinyl chloride	75-01-4	ND	10	1.0

ND = Not detected at or above indicated Reporting Limit

CA DMS ELAP Accreditation/Registration Number 1222

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(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/29/97
Client ID No.: 45887 MH-1 15.0-16.0'

Lab Contact: Ray Osowski
Lab ID No.: N7676-27A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

45887 MH-1 15.0-16.0' (cont.)

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
cis-1,2-Dichloroethene	156-59-2	ND	5.0	1.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0	1.0
m/p-Xylenes	N/A	ND	5.0	1.0
o-Xylenes	95-47-6	ND	5.0	1.0
trans-1,2-Dichloroethene	156-60-5	ND	5.0	1.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0	1.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7676-29A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/29/97
Client ID No.: 45889 MH-2 9.5-10.5'

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	5000	102
Toluene-d8	N/A	5000	111
p-Bromofluorobenzene	460-00-4	5000	158(CI)

CI = Recovery data is outside standard QC limits due to coextracted interference. LCS recovery data validates methodology.

45889 MH-2 9.5-10.5'

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
1,1,1-Trichloroethane	71-55-6	ND	500	1.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	500	1.0
1,1,2-Trichloroethane	79-00-5	ND	500	1.0
1,1-Dichloroethane	75-34-3	ND	500	1.0
1,1-Dichloroethene	75-35-4	ND	500	1.0
1,2-Dichlorobenzene	95-50-1	ND	500	1.0
1,2-Dichloroethane	107-06-2	ND	500	1.0
1,2-Dichloropropane	78-87-5	ND	500	1.0
1,3-Dichlorobenzene	541-73-1	ND	500	1.0
1,4-Dichlorobenzene	106-46-7	ND	500	1.0
2-Butanone	78-93-3	ND	2500	1.0
2-Hexanone	591-78-6	ND	2500	1.0
4-Methyl-2-pentanone	108-10-1	ND	2500	1.0
Acetone	67-64-1	ND	2500	1.0
Benzene	71-43-2	ND	500	1.0
Bromodichloromethane	75-27-4	ND	500	1.0
Bromoform	75-25-2	ND	500	1.0
Bromomethane	74-83-9	ND	1000	1.0
Carbon disulfide	75-15-0	ND	500	1.0
Carbon tetrachloride	56-23-5	ND	500	1.0
Chlorobenzene	108-90-7	ND	500	1.0
Chloroethane	75-00-3	ND	1000	1.0
Chloroform	67-66-3	ND	500	1.0
Chloromethane	74-87-3	ND	1000	1.0
Dibromochloromethane	124-48-1	ND	500	1.0
Ethylbenzene	100-41-4	ND	500	1.0
Methylene chloride	75-09-2	ND	500	1.0
Styrene	100-42-5	ND	500	1.0
Tetrachloroethene	127-18-4	ND	500	1.0
Toluene	108-88-3	ND	500	1.0

ND = Not detected at or above indicated Reporting Limit

CA 0005 ELAP Accreditation/Registration Number 1239

3249 Fitzgerald Road
Rancho Cordova, CA 95742
(916) 638-7301
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3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/29/97
Client ID No.: 45889 MH-2 9.5-10.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-29A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

45889 MH-2 9.5-10.5' (cont.)

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Trichloroethene	79-01-6	ND	500	1.0
Trichlorofluoromethane	75-69-4	ND	1000	1.0
Vinyl chloride	75-01-4	ND	1000	1.0
cis-1,2-Dichloroethene	156-59-2	ND	500	1.0
cis-1,3-Dichloropropene	10061-01-5	ND	500	1.0
m/p-Xylenes	N/A	ND	500	1.0
o-Xylenes	95-47-6	ND	500	1.0
trans-1,2-Dichloroethene	156-60-5	ND	500	1.0
trans-1,3-Dichloropropene	10061-02-6	ND	500	1.0

ND = Not detected at or above indicated Reporting Limit

CA DONS ELAP Accreditation/Registration Number 1222

3249 Fitzgerald Road
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CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/29/97
Client ID No.: 45893 MH-3 14.5-15.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-33A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	109
Toluene-d8	N/A	50.0	99
p-Bromofluorobenzene	460-00-4	50.0	121

45893 MH-3 14.5-15.5'

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
1,1,1-Trichloroethane	71-55-6	ND	5.0	1.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0	1.0
1,1,2-Trichloroethane	79-00-5	ND	5.0	1.0
1,1-Dichloroethane	75-34-3	ND	5.0	1.0
1,1-Dichloroethene	75-35-4	ND	5.0	1.0
1,2-Dichlorobenzene	95-50-1	ND	5.0	1.0
1,2-Dichloroethane	107-06-2	ND	5.0	1.0
1,2-Dichloropropane	78-87-5	ND	5.0	1.0
1,3-Dichlorobenzene	541-73-1	ND	5.0	1.0
1,4-Dichlorobenzene	106-46-7	ND	5.0	1.0
2-Butanone	78-93-3	ND	25	1.0
2-Hexanone	591-78-6	ND	25	1.0
4-Methyl-2-pentanone	108-10-1	ND	25	1.0
Acetone	67-64-1	ND	25	1.0
Benzene	71-43-2	ND	5.0	1.0
Bromodichloromethane	75-27-4	ND	5.0	1.0
Bromoform	75-25-2	ND	5.0	1.0
Bromomethane	74-83-9	ND	10	1.0
Carbon disulfide	75-15-0	ND	5.0	1.0
Carbon tetrachloride	56-23-5	ND	5.0	1.0
Chlorobenzene	108-90-7	ND	5.0	1.0
Chloroethane	75-00-3	ND	10	1.0
Chloroform	67-66-3	ND	5.0	1.0
Chloromethane	74-87-3	ND	10	1.0
Dibromochloromethane	124-48-1	ND	5.0	1.0
Ethylbenzene	100-41-4	ND	5.0	1.0
Methylene chloride	75-09-2	ND	5.0	1.0
Styrene	100-42-5	ND	5.0	1.0
Tetrachloroethene	127-18-4	ND	5.0	1.0
Toluene	108-88-3	ND	5.0	1.0
Trichloroethene	79-01-6	ND	5.0	1.0
Trichlorofluoromethane	75-69-4	ND	10	1.0
Vinyl chloride	75-01-4	ND	10	1.0

ND = Not detected at or above indicated Reporting Limit

CA DQS ELAP Accreditation/Registration Number 1223

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Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Prepared: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/29/97
Client ID No.: 45893 MH-3 14.5-15.5'

Lab Contact: Ray Osowski
Lab ID No.: N7676-33A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

45893 MH-3 14.5-15.5' (cont.)

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
cis-1,2-Dichloroethene	156-59-2	ND	5.0	1.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0	1.0
m/p-Xylenes	N/A	ND	5.0	1.0
o-Xylenes	95-47-6	ND	5.0	1.0
trans-1,2-Dichloroethene	156-60-5	ND	5.0	1.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0	1.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: M7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

Date Prepared: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/29/97

METHOD BLANK

Analyte	CAS No.	Results (ug/kg)	Reporting Limit (ug/kg)
1,1,1-Trichloroethane	71-55-6	ND	5.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0
1,1,2-Trichloroethane	79-00-5	ND	5.0
1,1-Dichloroethane	75-34-3	ND	5.0
1,1-Dichloroethene	75-35-4	ND	5.0
1,2-Dichlorobenzene	95-50-1	ND	5.0
1,2-Dichloroethane	107-06-2	ND	5.0
1,2-Dichloroethene, total	540-59-0	ND	5.0
1,2-Dichloropropane	78-87-5	ND	5.0
1,3-Dichlorobenzene	541-73-1	ND	5.0
1,4-Dichlorobenzene	106-46-7	ND	5.0
2-Butanone	78-93-3	ND	25
2-Hexanone	591-78-6	ND	25
4-Methyl-2-pentanone	108-10-1	ND	25
Acetone	67-64-1	ND	25
Benzene	71-43-2	ND	5.0
Bromodichloromethane	75-27-4	ND	5.0
Bromoform	75-25-2	ND	5.0
Bromomethane	74-83-9	ND	10
Carbon disulfide	75-15-0	ND	5.0
Carbon tetrachloride	56-23-5	ND	5.0
Chlorobenzene	108-90-7	ND	5.0
Chloroethane	75-00-3	ND	10
Chloroform	67-66-3	ND	5.0
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5.0
Ethylbenzene	100-41-4	ND	5.0
Methylene chloride	75-09-2	ND	5.0
Styrene	100-42-5	ND	5.0
Tetrachloroethene	127-18-4	ND	5.0
Toluene	108-88-3	ND	5.0
Trichloroethene	79-01-6	ND	5.0
Trichlorofluoromethane	75-69-4	ND	10
Vinyl chloride	75-01-4	ND	10
cis-1,2-Dichloroethene	156-59-2	ND	5.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0
m/p-Xylenes	N/A	ND	5.0
o-Xylenes	95-47-6	ND	5.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
 1135 Atlantic Avenue
 Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

Date Prepared: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/29/97

LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	95
Toluene-d8	N/A	50.0	102
p-Bromofluorobenzene	460-00-4	50.0	100

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Recovery (percent)
1,1-Dichloroethene	75-35-4	50.0	87
Benzene	71-43-2	50.0	113
Chlorobenzene	108-90-7	50.0	119
Toluene	108-88-3	50.0	115
Trichloroethene	79-01-6	50.0	116

LCS DUPLICATE SURROGATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	94
Toluene-d8	N/A	50.0	100
p-Bromofluorobenzene	460-00-4	50.0	99

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Recovery (percent)
1,1-Dichloroethene	75-35-4	50.0	85
Benzene	71-43-2	50.0	104
Chlorobenzene	108-90-7	50.0	112
Toluene	108-88-3	50.0	106
Trichloroethene	79-01-6	50.0	109

CA 2096 ELAP Accreditation/Registration Number 1223

3249 Fitzgerald Road
 Rancho Cordova, CA 95742
 (916) 638-7301
 Fax (916) 638-4510

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 Rancho Cordova, CA 95670
 (916) 852-6600
 Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Prepared: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/29/97

Lab Contact: Ray Oslowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
1,1-Dichloroethene	75-35-4	2
Benzene	71-43-2	8
Chlorobenzene	108-90-7	6
Toluene	108-88-3	8
Trichloroethene	79-01-6	6

CA DHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road
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Rancho Cordova, CA 95670
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Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Prepared: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/29/97
Client ID No.: 519377-80 MH-6

Lab Contact: Ray Osowski
Lab ID No.: N7676-35A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51144
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	110
Toluene-d8	N/A	50.0	109
p-Bromofluorobenzene	460-00-4	50.0	636(CI)

CI = Recovery data is outside standard QC limits due to coextracted interference. LCS recovery data validates methodology.

519377-80 MH-6

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71-55-6	ND	5.0	1.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0	1.0
1,1,2-Trichloroethane	79-00-5	ND	5.0	1.0
1,1-Dichloroethane	75-34-3	ND	5.0	1.0
1,1-Dichloroethene	75-35-4	ND	5.0	1.0
1,2-Dichlorobenzene	95-50-1	ND	5.0	1.0
1,2-Dichloroethane	107-06-2	ND	5.0	1.0
1,2-Dichloropropane	78-87-5	ND	5.0	1.0
1,3-Dichlorobenzene	541-73-1	ND	5.0	1.0
1,4-Dichlorobenzene	106-46-7	ND	5.0	1.0
2-Butanone	78-93-3	ND	25	1.0
2-Hexanone	591-78-6	ND	25	1.0
4-Methyl-2-pentanone	108-10-1	ND	25	1.0
Acetone	67-64-1	ND	25	1.0
Benzene	71-43-2	ND	5.0	1.0
Bromodichloromethane	75-27-4	ND	5.0	1.0
Bromoform	75-25-2	ND	5.0	1.0
Bromomethane	74-83-9	ND	10	1.0
Carbon disulfide	75-15-0	ND	5.0	1.0
Carbon tetrachloride	56-23-5	ND	5.0	1.0
Chlorobenzene	108-90-7	ND	5.0	1.0
Chloroethane	75-00-3	ND	10	1.0
Chloroform	67-66-3	ND	5.0	1.0
Chloromethane	74-87-3	ND	10	1.0
Dibromochloromethane	124-48-1	ND	5.0	1.0
Ethylbenzene	100-41-4	ND	5.0	1.0
Methylene chloride	75-09-2	ND	5.0	1.0
Styrene	100-42-5	ND	5.0	1.0
Tetrachloroethene	127-18-4	ND	5.0	1.0
Toluene	108-88-3	ND	5.0	1.0

ND = Not detected at or above indicated Reporting Limit

CA DQMS ELAP Accreditation/Registration Number 1223

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Rancho Cordova, CA 95742
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Fax (916) 638-4510

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Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Prepared: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/29/97
Client ID No.: 519377-80 MH-6

Lab Contact: Ray Osowski
Lab ID No.: N7676-35A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51144
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

519377-80 MH-6 (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Trichloroethene	79-01-6	ND	5.0	1.0
Trichlorofluoromethane	75-69-4	ND	10	1.0
Vinyl chloride	75-01-4	ND	10	1.0
cis-1,2-Dichloroethene	156-59-2	ND	5.0	1.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0	1.0
m/p-Xylenes	N/A	ND	5.0	1.0
o-Xylenes	95-47-6	ND	5.0	1.0
trans-1,2-Dichloroethene	156-60-5	ND	5.0	1.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0	1.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7676-39A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51144
Instrument ID: MS05
Analyst ID: FRAGSG
Matrix: WATER

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Prepared: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/29/97
Client ID No.: 519386-88 MH-8

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	109
Toluene-d8	N/A	50.0	106
p-Bromofluorobenzene	460-00-4	50.0	123

519386-88 MH-8

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
1,1,1-Trichloroethane	71-55-6	ND	5.0	1.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0	1.0
1,1,2-Trichloroethane	79-00-5	ND	5.0	1.0
1,1-Dichloroethane	75-34-3	ND	5.0	1.0
1,1-Dichloroethene	75-35-4	ND	5.0	1.0
1,2-Dichlorobenzene	95-50-1	ND	5.0	1.0
1,2-Dichloroethane	107-06-2	ND	5.0	1.0
1,2-Dichloropropane	78-87-5	ND	5.0	1.0
1,3-Dichlorobenzene	541-73-1	ND	5.0	1.0
1,4-Dichlorobenzene	106-46-7	ND	5.0	1.0
2-Butanone	78-93-3	ND	25	1.0
2-Hexanone	591-78-6	ND	25	1.0
4-Methyl-2-pentanone	108-10-1	ND	25	1.0
Acetone	67-64-1	ND	25	1.0
Benzene	71-43-2	ND	5.0	1.0
Bromodichloromethane	75-27-4	ND	5.0	1.0
Bromoform	75-25-2	ND	5.0	1.0
Bromomethane	74-83-9	ND	10	1.0
Carbon disulfide	75-15-0	ND	5.0	1.0
Carbon tetrachloride	56-23-5	ND	5.0	1.0
Chlorobenzene	108-90-7	ND	5.0	1.0
Chloroethane	75-00-3	ND	10	1.0
Chloroform	67-66-3	ND	5.0	1.0
Chloromethane	74-87-3	ND	10	1.0
Dibromochloromethane	124-48-1	ND	5.0	1.0
Ethylbenzene	100-41-4	ND	5.0	1.0
Methylene chloride	75-09-2	ND	5.0	1.0
Styrene	100-42-5	ND	5.0	1.0
Tetrachloroethene	127-18-4	ND	5.0	1.0
Toluene	108-88-3	ND	5.0	1.0
Trichloroethene	79-01-6	ND	5.0	1.0
Trichlorofluoromethane	75-69-4	ND	10	1.0
Vinyl chloride	75-01-4	ND	10	1.0

ND = Not detected at or above indicated Reporting Limit

CA DMS ELAP Accreditation/Registration Number 1222

3249 Fitzgerald Road
Rancho Cordova, CA 95742
(916) 638-7301
Fax (916) 638-4510

3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7676-39A
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51144
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

Date Sampled: 05/21/97
Date Received: 05/23/97
Date Prepared: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/29/97
Client ID No.: 519386-88 MH-8

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
cis-1,2-Dichloroethene	156-59-2	ND	5.0	1.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0	1.0
m/p-Xylenes	N/A	ND	5.0	1.0
o-Xylenes	95-47-6	ND	5.0	1.0
trans-1,2-Dichloroethene	156-60-5	ND	5.0	1.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0	1.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51144
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

Date Prepared: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/29/97

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	97
Toluene-d8	N/A	50.0	100
p-Bromofluorobenzene	460-00-4	50.0	94

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Reporting Limit (ug/L)
1,1,1-Trichloroethane	71-55-6	ND	5.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0
1,1,2-Trichloroethane	79-00-5	ND	5.0
1,1-Dichloroethane	75-34-3	ND	5.0
1,1-Dichloroethene	75-35-4	ND	5.0
1,2-Dichlorobenzene	95-50-1	ND	5.0
1,2-Dichloroethane	107-06-2	ND	5.0
1,2-Dichloroethene, total	540-59-0	ND	5.0
1,2-Dichloropropane	78-87-5	ND	5.0
1,3-Dichlorobenzene	541-73-1	ND	5.0
1,4-Dichlorobenzene	106-46-7	ND	5.0
2-Butanone	78-93-3	ND	25
2-Hexanone	591-78-6	ND	25
4-Methyl-2-pentanone	108-10-1	ND	25
Acetone	67-64-1	ND	25
Benzene	71-43-2	ND	5.0
Bromodichloromethane	75-27-4	ND	5.0
Bromoform	75-25-2	ND	5.0
Bromomethane	74-83-9	ND	10
Carbon disulfide	75-15-0	ND	5.0
Carbon tetrachloride	56-23-5	ND	5.0
Chlorobenzene	108-90-7	ND	5.0
Chloroethane	75-00-3	ND	10
Chloroform	67-66-3	ND	5.0
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5.0
Ethylbenzene	100-41-4	ND	5.0
Methylene chloride	75-09-2	ND	5.0
Styrene	100-42-5	ND	5.0
Tetrachloroethene	127-18-4	ND	5.0

ND = Not detected at or above indicated Reporting Limit

CA DHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road
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(916) 638-7301
Fax (916) 638-4510

3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Prepared: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/29/97

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51144
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

METHOD BLANK(cont.)

Analyte	CAS No.	Results (ug/L)	Reporting Limit (ug/L)
Toluene	108-88-3	ND	5.0
Trichloroethene	79-01-6	ND	5.0
Trichlorofluoromethane	75-69-4	ND	10
Vinyl chloride	75-01-4	ND	10
cis-1,2-Dichloroethene	156-59-2	ND	5.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0
m/p-Xylenes	N/A	ND	5.0
o-Xylenes	95-47-6	ND	5.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
 1135 Atlantic Avenue
 Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Prepared: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/29/97

Lab Contact: Ray Osowski
Lab ID No.: N7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51144
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	103
Toluene-d8	N/A	50.0	105
p-Bromofluorobenzene	460-00-4	50.0	96

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
1,1-Dichloroethene	75-35-4	50.0	95
Benzene	71-43-2	50.0	113
Chlorobenzene	108-90-7	50.0	109
Toluene	108-88-3	50.0	104
Trichloroethene	79-01-6	50.0	106

LCS DUPLICATE SURROGATE

Analyte	CAS No.	LCSD Conc. (ug/L)	LCSD Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	50.0	106
Toluene-d8	N/A	50.0	109
p-Bromofluorobenzene	460-00-4	50.0	101

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (ug/L)	LCSD Recovery (percent)
1,1-Dichloroethene	75-35-4	50.0	86
Benzene	71-43-2	50.0	103
Chlorobenzene	108-90-7	50.0	104
Toluene	108-88-3	50.0	101
Trichloroethene	79-01-6	50.0	108

CA DMS ELAP Accreditation/Registration Number 1223

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 Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands

Date Prepared: 05/23/97
Date Analyzed: 05/23/97
Date Reported: 05/29/97

Lab Contact: Ray Osowski
Lab ID No.: W7676
Job No.: 807676
COC Log No.: NO NUMBER
Batch No.: 51144
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: WATER

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
1,1-Dichloroethene	75-35-4	10
Benzene	71-43-2	9
Chlorobenzene	108-90-7	5
Toluene	108-88-3	3
Trichloroethene	79-01-6	2

CA DMS ELAP Accreditation/Registration Number 1223

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Fax (916) 852-7292



N 7665

- 680 Cheapeake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
- 819 Strickland Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: M/IH Project Name: STANDARD BRANDS - EMERYVILLE

Address: 1135 ATLANTIC AVE Billing Address (if different):

City: ALAMEDA State: CA Zip Code: 94501

Telephone: (510) 521-5200 FAX #: P.O. #:

Report To: B. WRIGHT Sampler: N. KING QC Data: Level D (Standard) Level C Level B Level A

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours

Time: 7 Working Days 2 Working Days

5 Working Days 24 Hours

Analyses Requested

Drinking Water

Waste Water

Other

*8015M Field Analyte
Inc. - 3870
3240
HYDRAULIC CONDUCTIVITY
ORGANIC CARBON
CONTENT
DUAL DENSITY
POROSITY*

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested								Comments	
1. 45856	5-21-97 11:30	SOIL	1	ACETATE		X	X	X							MH-7 4.550
2. 45857	12:00					X	X								8-9
3. 45858	13:00					X	X								14.5-15.
4. 45859	14:00					X	X								18-19
5. 45860	15:30								X	X	X	X			HOLD-CALL 20:27. 2HR (AT)
6.															
7.															
8.															
9.															
10.															

Relinquished By: <u>Nathan King</u>	Date: <u>5-21-97</u>	Time: <u>1700</u>	Received By: <u>X PRESS IT</u>	Date: <u>5-21-97</u>	Time: <u>1700</u>
Relinquished By: <u>EXPRESS-IT</u>	Date:	Time:	Received By: <u>M</u>	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>Mark R. Qu...</u>	Date: <u>5/22/97</u>	Time: <u>0750</u>

Pink - Client
Yellow - Sequoia
White - Sequoia

CLS Labs

McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

05/30/97

Attention: Brad Wright

Reference: Analytical Results

Project Name: Standard Brands-Emeryville
Project No.:
Date Received: 05/22/97
Chain Of Custody: NO NUMBER

CLS ID No.: N7665
CLS Job No.: 807665

The following analyses were performed on the above referenced project:

<u>No. of Samples</u>	<u>Turnaround Time</u>	<u>Analysis Description</u>
1	3 Days	Hold for subsequent analyses
4	3 Days	TPH Fingerprint, EPA m-8015
1	3 Days	Volatile Organics by EPA Method 8240
4	3 Days	Semivolatile Organic Compounds by GC/MS

Although sample(s) 45856, 45857, 45858, and 45859 were found to contain compounds in the retention time range generally associated with paint thinner/mineral spirits, the chromatogram(s) for these sample(s) were not consistent with the expected chromatographic pattern or "fingerprint". However, the reported concentration(s) are based on paint thinner / mineral spirits calibration(s).

Sample "45856" was analyzed by mid-level protocol for EPA method 8240 due to significant levels of hydrocarbons in these samples.

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,


George Hampton
Laboratory Director

3249 Fitzgerald Road
Rancho Cordova, CA 95742
(916) 638-7301
Fax (916) 638-4510

3083 Gold Canal Drive
Rancho Cordova, CA 95670
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Fax (916) 852-7292

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands-Emeryville

Date Sampled: 05/21/97
Date Received: 05/22/97
Date Extracted: 05/22/97
Date Analyzed: 05/23/97
Date Reported: 05/29/97
Client ID No.: 45856

Lab Contact: Ray Osowski
Lab ID No.: N7665-1A
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51112
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

45856

MH-7 4.5-5.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	520	100	100

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands-Emeryville

Date Sampled: 05/21/97
Date Received: 05/22/97
Date Extracted: 05/22/97
Date Analyzed: 05/23/97
Date Reported: 05/29/97
Client ID No.: 45857

Lab Contact: Ray Osowski
Lab ID No.: N7665-2A
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51112
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

45857

MH-7 8-9'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	43	10	10

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands-Emeryville

Date Sampled: 05/21/97
Date Received: 05/22/97
Date Extracted: 05/22/97
Date Analyzed: 05/24/97
Date Reported: 05/29/97
Client ID No.: 45858

Lab Contact: Ray Osowski
Lab ID No.: N7665-3A
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51112
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

45858

MH-7

14.5-15.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	12	5.0	5.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands-Emeryville

Date Sampled: 05/21/97
Date Received: 05/22/97
Date Extracted: 05/22/97
Date Analyzed: 05/28/97
Date Reported: 05/29/97
Client ID No.: 45859

Lab Contact: Ray Osowski
Lab ID No.: N7665-4A
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51112
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

45859

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	50	10	10

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands-Emeryville

Date Extracted: 05/22/97
Date Analyzed: 05/22/97
Date Reported: 05/29/97

Lab Contact: Ray Osowski
Lab ID No.: N7665
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51112
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Reporting Limit (mg/kg)
Petroleum Hydrocarbons (C7-C32)	N/A	ND	0.050

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands-Emeryville

Date Extracted: 05/22/97
Date Analyzed: 05/22/97
Date Reported: 05/29/97

Lab Contact: Ray Osowski
Lab ID No.: N7665
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51112
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Diesel (C12-C22)	N/A	5.00	108

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCSD Recovery (percent)
Diesel (C12-C22)	N/A	5.00	115

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Diesel (C12-C22)	N/A	6

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CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands-Emeryville

Date Sampled: 05/21/97
Date Received: 05/22/97
Date Extracted: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/28/97
Client ID No.: 45856

Lab Contact: Ray Osowski
Lab ID No.: N7665-1A
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	5000	102
Toluene-d8	N/A	5000	106
p-Bromofluorobenzene	460-00-4	5000	163(CI)

CI = Recovery data is outside standard QC limits due to coextracted interference. LCS recovery data validates methodology.

45856

M4-7 4.5-5.5

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
1,1,1-Trichloroethane	71-55-6	ND	500
1,1,2,2-Tetrachloroethane	79-34-5	ND	500
1,1,2-Trichloroethane	79-00-5	ND	500
1,1-Dichloroethane	75-34-3	ND	500
1,1-Dichloroethene	75-35-4	ND	500
1,2-Dichlorobenzene	95-50-1	ND	500
1,2-Dichloroethane	107-06-2	ND	500
1,2-Dichloropropane	78-87-5	ND	500
1,3-Dichlorobenzene	541-73-1	ND	500
1,4-Dichlorobenzene	106-46-7	ND	500
2-Butanone	78-93-3	ND	2500
2-Hexanone	591-78-6	ND	2500
4-Methyl-2-pentanone	108-10-1	ND	2500
Acetone	67-64-1	ND	2500
Benzene	71-43-2	ND	500
Bromodichloromethane	75-27-4	ND	500
Bromoform	75-25-2	ND	500
Bromomethane	74-83-9	ND	1000
Carbon disulfide	75-15-0	ND	500
Carbon tetrachloride	56-23-5	ND	500
Chlorobenzene	108-90-7	ND	500
Chloroethane	75-00-3	ND	1000
Chloroform	67-66-3	ND	500
Chloromethane	74-87-3	ND	1000
Dibromochloromethane	124-48-1	ND	500
Ethylbenzene	100-41-4	ND	500
Methylene chloride	75-09-2	ND	500
Styrene	100-42-5	ND	500

ND = Not detected at or above indicated Reporting Limit

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Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands-Emeryville

Date Sampled: 05/21/97
Date Received: 05/22/97
Date Extracted: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/28/97
Client ID No.: 45856

Lab Contact: Ray Osowski
Lab ID No.: N7665-1A
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

45856(cont.)

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Tetrachloroethene	127-18-4	ND	500
Toluene	108-88-3	ND	500
Trichloroethene	79-01-6	ND	500
Trichlorofluoromethane	75-69-4	ND	1000
Vinyl chloride	75-01-4	ND	1000
cis-1,2-Dichloroethene	156-59-2	ND	500
cis-1,3-Dichloropropene	10061-01-5	ND	500
m/p-Xylenes	N/A	ND	500
o-Xylenes	95-47-6	ND	500
trans-1,2-Dichloroethene	156-60-5	ND	500
trans-1,3-Dichloropropene	10061-02-6	ND	500

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands-Emeryville

Date Extracted: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/28/97

Lab Contact: Ray Osowski
Lab ID No.: N7665
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	MB Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	5000	105
Toluene-d8	N/A	5000	114
p-Bromofluorobenzene	460-00-4	5000	95

METHOD BLANK

Analyte	CAS No.	Results (ug/kg)	Reporting Limit (ug/kg)
1,1,1-Trichloroethane	71-55-6	ND	500
1,1,2,2-Tetrachloroethane	79-34-5	ND	500
1,1,2-Trichloroethane	79-00-5	ND	500
1,1-Dichloroethane	75-34-3	ND	500
1,1-Dichloroethene	75-35-4	ND	500
1,2-Dichlorobenzene	95-50-1	ND	500
1,2-Dichloroethane	107-06-2	ND	500
1,2-Dichloroethene, total	540-59-0	ND	500
1,2-Dichloropropane	78-87-5	ND	500
1,3-Dichlorobenzene	541-73-1	ND	500
1,4-Dichlorobenzene	106-46-7	ND	500
2-Butanone	78-93-3	ND	2500
2-Hexanone	591-78-6	ND	2500
4-Methyl-2-pentanone	108-10-1	ND	2500
Acetone	67-64-1	ND	2500
Benzene	71-43-2	ND	500
Bromodichloromethane	75-27-4	ND	500
Bromoform	75-25-2	ND	500
Bromomethane	74-83-9	ND	1000
Carbon disulfide	75-15-0	ND	500
Carbon tetrachloride	56-23-5	ND	500
Chlorobenzene	108-90-7	ND	500
Chloroethane	75-00-3	ND	1000
Chloroform	67-66-3	ND	500
Chloromethane	74-87-3	ND	1000
Dibromochloromethane	124-48-1	ND	500
Ethylbenzene	100-41-4	ND	500
Methylene chloride	75-09-2	ND	500

ND = Not detected at or above indicated Reporting Limit

CA DHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands-Emeryville

Lab Contact: Ray Oslowski
Lab ID No.: N7665
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

Date Extracted: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/28/97

METHOD BLANK(cont.)

Analyte	CAS No.	Results (ug/kg)	Reporting Limit (ug/kg)
Styrene	100-42-5	ND	500
Tetrachloroethene	127-18-4	ND	500
Toluene	108-88-3	ND	500
Trichloroethene	79-01-6	ND	500
Trichlorofluoromethane	75-69-4	ND	1000
Vinyl chloride	75-01-4	ND	1000
cis-1,2-Dichloroethene	156-59-2	ND	500
cis-1,3-Dichloropropene	10061-01-5	ND	500
m/p-Xylenes	N/A	ND	500
o-Xylenes	95-47-6	ND	500
trans-1,3-Dichloropropene	10061-02-6	ND	500

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands-Emeryville

Date Extracted: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/28/97

Lab Contact: Ray Osowski
Lab ID No.: N7665
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	5000	103
Toluene-d8	N/A	5000	111
p-Bromofluorobenzene	460-00-4	5000	96

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Recovery (percent)
1,1-Dichloroethene	75-35-4	5000	83
Benzene	71-43-2	5000	93
Chlorobenzene	108-90-7	5000	95
Toluene	108-88-3	5000	94
Trichloroethene	79-01-6	5000	92

LCS DUPLICATE SURROGATE

Analyte	CAS No.	LCSD Conc. (ug/kg)	LCSD Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	5000	101
Toluene-d8	N/A	5000	110
p-Bromofluorobenzene	460-00-4	5000	101

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCSD Recovery (percent)
1,1-Dichloroethene	75-35-4	5000	87
Benzene	71-43-2	5000	97
Chlorobenzene	108-90-7	5000	97
Toluene	108-88-3	5000	94
Trichloroethene	79-01-6	5000	97

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Fax (916) 852-7292

CLS Labs

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands-Emeryville

Date Extracted: 05/27/97
Date Analyzed: 05/27/97
Date Reported: 05/28/97

Lab Contact: Ray Osowski
Lab ID No.: N7665
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51142
Instrument ID: MS05
Analyst ID: PRAGSG
Matrix: SOIL

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
1,1-Dichloroethene	75-35-4	5
Benzene	71-43-2	4
Chlorobenzene	108-90-7	2
Toluene	108-88-3	0
Trichloroethene	79-01-6	5

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands-Emeryville

Date Sampled: 05/21/97
Date Received: 05/22/97
Date Extracted: 05/22/97
Date Analyzed: 05/22/97
Date Reported: 05/27/97
Client ID No.: 45856

Lab Contact: Ray Osowski
Lab ID No.: N7665-1A
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51111
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	66
2-Fluorophenol	367-12-4	2500	54
2,4,6-Tribromophenol	118-79-6	2500	66
Nitrobenzene-d5	4665-60-0	1670	65
2-Fluorobiphenyl	321-60-8	1670	76
Terphenyl-d14	98904-43-9	1670	78

45856

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1,2,3-c,d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	2900	660	2.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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Fax (916) 852-7292

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands-Emeryville

Date Sampled: 05/21/97
Date Received: 05/22/97
Date Extracted: 05/22/97
Date Analyzed: 05/22/97
Date Reported: 05/27/97
Client ID No.: 45857

Lab Contact: Ray Oslowski
Lab ID No.: N7665-2A
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51111
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	78
2-Fluorophenol	367-12-4	2500	77
2,4,6-Tribromophenol	118-79-6	2500	71
Nitrobenzene-d5	4665-60-0	1670	69
2-Fluorobiphenyl	321-60-8	1670	80
Terphenyl-d14	98904-43-9	1670	93

45857

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands-Emeryville

Date Sampled: 05/21/97
Date Received: 05/22/97
Date Extracted: 05/22/97
Date Analyzed: 05/22/97
Date Reported: 05/27/97
Client ID No.: 45858

Lab Contact: Ray Oslowski
Lab ID No.: N7665-3A
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51111
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	54
2-Fluorophenol	367-12-4	2500	58
2,4,6-Tribromophenol	118-79-6	2500	60
Nitrobenzene-d5	4665-60-0	1670	52
2-Fluorobiphenyl	321-60-8	1670	55
Terphenyl-d14	98904-43-9	1670	82

45858

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
 Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
 1135 Atlantic Avenue
 Alameda, CA 94501

Project No.:
 Contact: Brad Wright
 Phone: (510) 521-5200

Project: Standard Brands-Emeryville

Date Sampled: 05/21/97
 Date Received: 05/22/97
 Date Extracted: 05/22/97
 Date Analyzed: 05/22/97
 Date Reported: 05/27/97
 Client ID No.: 45859

Lab Contact: Ray Osowski
 Lab ID No.: N7665-4A
 Job No.: 807665
 COC Log No.: NO NUMBER
 Batch No.: 51111
 Instrument ID: MS01
 Analyst ID: MARKW
 Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	48
2-Fluorophenol	367-12-4	2500	48
2,4,6-Tribromophenol	118-79-6	2500	44
Nitrobenzene-d5	4665-60-0	1670	47
2-Fluorobiphenyl	321-60-8	1670	44
Terphenyl-d14	98904-43-9	1670	57

45859

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Acenaphthene	83-32-9	ND	330	1.0
Acenaphthylene	208-96-8	ND	330	1.0
Anthracene	120-12-7	ND	330	1.0
Benzo (a) anthracene	56-55-3	ND	330	1.0
Benzo (b) fluoranthene	205-99-2	ND	330	1.0
Benzo (k) fluoranthene	207-08-9	ND	330	1.0
Benzo (g, h, i) perylene	191-24-2	ND	330	1.0
Benzo (a) pyrene	50-32-8	ND	330	1.0
Chrysene	218-01-9	ND	330	1.0
Dibenzo (a, h) anthracene	53-70-3	ND	330	1.0
Dibenzofuran	132-64-9	ND	330	1.0
Fluoranthene	206-44-0	ND	330	1.0
Fluorene	86-73-7	ND	330	1.0
Indeno (1,2,3-c, d) pyrene	193-39-5	ND	330	1.0
2-Methylnaphthalene	91-57-6	ND	330	1.0
Naphthalene	91-20-3	ND	330	1.0
Phenanthrene	85-01-8	ND	330	1.0
Pyrene	129-00-0	ND	330	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands-Emeryville

Lab Contact: Ray Osowski
Lab ID No.: N7665
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51111
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

Date Extracted: 05/22/97
Date Analyzed: 05/22/97
Date Reported: 05/27/97

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	MB Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	80
2-Fluorophenol	367-12-4	2500	85
2,4,6-Tribromophenol	118-79-6	2500	70
Nitrobenzene-d5	4665-60-0	1670	73
2-Fluorobiphenyl	321-60-8	1670	79
Terphenyl-d14	98904-43-9	1670	85

METHOD BLANK

Analyte	CAS No.	Results (ug/kg)	Reporting Limit (ug/kg)
Acenaphthene	83-32-9	ND	330
Acenaphthylene	208-96-8	ND	330
Anthracene	120-12-7	ND	330
Benzo (a) anthracene	56-55-3	ND	330
Benzo (b) fluoranthene	205-99-2	ND	330
Benzo (k) fluoranthene	207-08-9	ND	330
Benzo (g, h, i) perylene	191-24-2	ND	330
Benzo (a) pyrene	50-32-8	ND	330
Chrysene	218-01-9	ND	330
Dibenzo (a, h) anthracene	53-70-3	ND	330
Dibenzofuran	132-64-9	ND	330
Fluoranthene	206-44-0	ND	330
Fluorene	86-73-7	ND	330
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	330
2-Methylnaphthalene	91-57-6	ND	330
Naphthalene	91-20-3	ND	330
Phenanthrene	85-01-8	ND	330
Pyrene	129-00-0	ND	330

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510)521-5200

Project: Standard Brands-Emeryville

Date Extracted: 05/22/97
Date Analyzed: 05/22/97
Date Reported: 05/27/97

Lab Contact: Ray Osowski
Lab ID No.: N7665
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51111
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	73
2-Fluorophenol	367-12-4	2500	73
2,4,6-Tribromophenol	118-79-6	2500	88
Nitrobenzene-d5	4665-60-0	1670	74
2-Fluorobiphenyl	321-60-8	1670	79
Terphenyl-d14	98904-43-9	1670	88

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Recovery (percent)
1,2,4-Trichlorobenzene	120-82-1	1670	77
Acenaphthene	83-32-9	1670	86
2,4-DNT (2,4-Dinitrotoluene)	121-14-2	1670	67
Pyrene	129-00-0	1670	105
N-Nitroso-di-n-propylamine	621-64-7	1670	56
1,4-Dichlorobenzene	106-46-7	1670	77
Pentachlorophenol	87-86-5	2500	89
Phenol	108-95-2	2500	74
2-Chlorophenol	95-57-8	2500	75
4-Chloro-3-methylphenol	59-50-7	2500	85
4-Nitrophenol	100-02-7	2500	71

LCS DUPLICATE SURROGATE

Analyte	CAS No.	LCSD Conc. (ug/kg)	LCSD Surrogate Recovery (percent)
Phenol-d5	4165-62-2	2500	74
2-Fluorophenol	367-12-4	2500	73
2,4,6-Tribromophenol	118-79-6	2500	62
Nitrobenzene-d5	4665-60-0	1670	68
2-Fluorobiphenyl	321-60-8	1670	74
Terphenyl-d14	98904-43-9	1670	80

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands-Emeryville

Date Extracted: 05/22/97
Date Analyzed: 05/22/97
Date Reported: 05/27/97

Lab Contact: Ray Osowski
Lab ID No.: N7665
Job No.: 807665
COC Log No.: NO NUMBER
Batch No.: 51111
Instrument ID: MS01
Analyst ID: MARKW
Matrix: SOIL

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCSD Recovery (percent)
1,2,4-Trichlorobenzene	120-82-1	1670	69
Acenaphthene	83-32-9	1670	80
24DNT (2,4-Dinitrotoluene)	121-14-2	1670	67
Pyrene	129-00-0	1670	98
N-Nitroso-di-n-propylamine	621-64-7	1670	61
1,4-Dichlorobenzene	106-46-7	1670	83
Pentachlorophenol	87-86-5	2500	82
Phenol	108-95-2	2500	78
2-Chlorophenol	95-57-8	2500	81
4-Chloro-3-methylphenol	59-50-7	2500	79
4-Nitrophenol	100-02-7	2500	69

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
1,2,4-Trichlorobenzene	120-82-1	11
Acenaphthene	83-32-9	7
24DNT (2,4-Dinitrotoluene)	121-14-2	0
Pyrene	129-00-0	7
N-Nitroso-di-n-propylamine	621-64-7	9
1,4-Dichlorobenzene	106-46-7	8
Pentachlorophenol	87-86-5	8
Phenol	108-95-2	5
2-Chlorophenol	95-57-8	8
4-Chloro-3-methylphenol	59-50-7	7
4-Nitrophenol	100-02-7	3

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CLS Labs

McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

06/09/97

Attention: Nathan King

Reference: Analytical Results

Project Name: Standard Brands
Project No.:
Date Received: 05/31/97
Chain Of Custody: 03129

CLS ID No.: N7787
CLS Job No.: 807787

The following analyses were performed on the above referenced project:

<u>No. of Samples</u>	<u>Turnaround Time</u>	<u>Analysis Description</u>
2	3 Days	Hold for subsequent analyses
2	3 Days	TPH Fingerprint, EPA m-8015
1	3 Days	TPH Fingerprint, EPA m-8015

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

EPA 8015 Modified Fuel Fingerprinting (Soil):
Although Samples 46151 MH-10 @ 5.5-6' and MH-10 @ 9.5-10' were found to contain compounds in the retention time range generally associated with paint thinner/mineral spirits, the chromatograms for these samples were not consistent with the expected chromatographic pattern or "fingerprint." However, the reported concentrations are based on paint thinner/mineral spirits calibration.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,


George Hampton
Laboratory Director

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Sampled: 05/30/97
Date Received: 05/31/97
Date Extracted: 06/02/97
Date Analyzed: 06/04/97
Date Reported: 06/05/97
Client ID No.: 46151 MH-10 @ 5.5-6'

Lab Contact: Ray Osowski
Lab ID No.: N7787-1A
Job No.: 807787
COC Log No.: 03129
Batch No.: 51163
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

46151 MH-10 @ 5.5-6'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Diesel	N/A	120	100	100
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	100	100	100

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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Fax (916) 852-7292

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Sampled: 05/30/97
Date Received: 05/31/97
Date Extracted: 06/02/97
Date Analyzed: 06/04/97
Date Reported: 06/05/97
Client ID No.: 46152 MH-10 @ 9.5-10'

Lab Contact: Ray Osowski
Lab ID No.: N7787-2A
Job No.: 807787
COC Log No.: 03129
Batch No.: 51163
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

46152 MH-10 @ 9.5-10'

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Diesel	N/A	1300	1000	1000
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	4900	1000	1000

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Extracted: 06/02/97
Date Analyzed: 06/03/97
Date Reported: 06/05/97

Lab Contact: Ray Oslowski
Lab ID No.: N7787
Job No.: 807787
COC Log No.: 03129
Batch No.: 51163
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Reporting Limit (mg/kg)
Petroleum Hydrocarbons (C7-C32)	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified .
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Extracted: 06/02/97
Date Analyzed: 06/03/97
Date Reported: 06/05/97

Lab Contact: Ray Osowski
Lab ID No.: N7787
Job No.: 807787
COC Log No.: 03129
Batch No.: 51163
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Diesel (C12-C22)	N/A	5.00	95

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCSD Recovery (percent)
Diesel (C12-C22)	N/A	5.00	96

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Diesel (C12-C22)	N/A	1

CA DOHS ELAP Accreditation/Registration Number 1233

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(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Sampled: 05/30/97
Date Received: 05/31/97
Date Extracted: 06/02/97
Date Analyzed: 06/04/97
Date Reported: 06/05/97
Client ID No.: 518355 MH-10

Lab Contact: Ray Osowski
Lab ID No.: N7787-5A
Job No.: 807787
COC Log No.: 03129
Batch No.: 51162
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

518355 MH-10

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
Diesel	N/A	40	20	400
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	180	20	400

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7787
Job No.: 807787
COC Log No.: 03129
Batch No.: 51162
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

Date Extracted: 06/02/97
Date Analyzed: 06/04/97
Date Reported: 06/05/97

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Reporting Limit (mg/L)
Petroleum Hydrocarbons (C7-C32)	N/A	ND	0.050

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Extracted: 06/02/97
Date Analyzed: 06/03/97
Date Reported: 06/05/97

Lab Contact: Ray Osowski
Lab ID No.: N7787
Job No.: 807787
COC Log No.: 03129
Batch No.: 51162
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Diesel (C12-C22)	N/A	0.500	79

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/L)	LCSD Recovery (percent)
Diesel (C12-C22)	N/A	0.500	82

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Diesel (C12-C22)	N/A	4

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California Laboratory Services

Environmental Laboratory Information System

This report was sent automatically. In the event of an incomplete transmittance, 5 attempts will be made to send the complete number of pages for this report. If you have any questions, please call (916)638-7301 for assistance.

To: Nathan King

Date:6-12-97

From: California Laboratory Services

Page 001 of 003

***** This report is also available via E-MAIL. *****
* You may request individual or all reports also be sent to you *
* via e-mail directly to your desk. You may also request that *
* you would like both fax and e-mail reports be sent. For more *
* information, send an e-mail request to adme@clselis.com. *

The following facsimile report is of a FINAL nature and as such does not include data that will be forthcoming in the complete report package. Interpretation of the report results should be made only after the complete report package has been delivered.

JUN 12 '97 14:28

1-916-638-4510

PAGE.001

ANALYTICAL RESULTS SUMMARY

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Lab Contact: Ray Osowski

Date Received: 05/31/97

Lab ID No.: N7787A

Date Reported: 06/12/97

Job No.: 807787

COC Log No.: 03129

ALL RESULTS

Sample I.D. Client	Lab Analyte	Method I.D.	Results	Rep. Limit
518351-54 MH-10 4A	1,1,1-Trichloroethane	E8240W	ND	250 ug/L
	1,1,2, 2-Tetrachloroethane		ND	250 ug/L
	1,1,2-Trichloroethane		ND	250 ug/L
	1,1-Dichloroethane		ND	250 ug/L
	1,1-Dichloroethene		ND	250 ug/L
	1,2-Dichlorobenzene		ND	250 ug/L
	1,2-Dichloroethane		ND	250 ug/L
	1,2-Dichloropropane		ND	250 ug/L
	1,3-Dichlorobenzene		ND	250 ug/L
	1,4-Dichlorobenzene		ND	250 ug/L
	2-Butanone		ND	1200ug/L
	2-Hexanone		ND	1200ug/L
	4-Methyl-2-pentanone		ND	1200ug/L
	Acetone		ND	1200ug/L
	Benzene		ND	250 ug/L
	Bromodichloromethane		ND	250 ug/L
	Bromoform		ND	250 ug/L
	Bromomethane		ND	500 ug/L
	Carbon disulfide		ND	250 ug/L
	Carbon tetrachloride		ND	250 ug/L
	Chlorobenzene		ND	250 ug/L
	Chloroethane		ND	500 ug/L
	Chloroform		ND	250 ug/L
	Chloromethane		ND	500 ug/L
	Dibromochloromethane		ND	250 ug/L
	Ethylbenzene		ND	250 ug/L
	Methylene chloride		ND	250 ug/L
	Styrene		ND	250 ug/L
	Tetrachloroethene		ND	250 ug/L
	Toluene		ND	250 ug/L

CA DOHS ELAP Accreditation/Registration Number 1233

JUN 12 '97 14:28

1-916-638-4510

PAGE.002

ANALYTICAL RESULTS SUMMARY

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7787A
Job No.: 807787
COC Log No.: 03129

Date Received: 05/31/97
Date Reported: 06/12/97

ALL RESULTS(cont.)

Sample I.D. Client	Lab Analyte	Method I.D.	Results	Rep. Limit
	Trichloroethene		ND	250 ug/L
	Trichlorofluoromethane		ND	500 ug/L
	Vinyl chloride		ND	500 ug/L
	cis-1,2-Dichloroethene		ND	250 ug/L
	cis-1, 3-Dichloropropene		ND	250 ug/L
	m/p-Xylenes		ND	250 ug/L
	o-Xylenes		ND	250 ug/L
	trans-1, 2-Dichloroethene		ND	250 ug/L
	trans-1, 3-Dichloropropene		ND	250 ug/L

CLS Labs

McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

06/10/97

Attention: Nathan King

Reference: Analytical Results

Project Name: Standard Brands
Project No.:
Date Received: 06/03/97
Chain Of Custody: AA 2927,28

CLS ID No.: N7811
CLS Job No.: 807811

The following analyses were performed on the above referenced project:

<u>No. of Samples</u>	<u>Turnaround Time</u>	<u>Analysis Description</u>
6	2 Days	Hold for subsequent analyses
10	2 Days	TPH Fingerprint, EPA m-8015
2	2 Days	TPH Fingerprint, EPA m-8015
1	2 Days	Semivolatile Organic Compounds by GC/MS

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

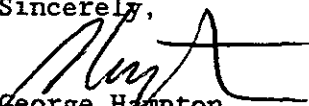
Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

EPA 8015 Modified (Soil):

The chromatographic pattern of early eluting hydrocarbons in Samples 46'54 MH-13 @ (4.5-5), 46'56 MH-13 @ (9-9.5), and 46'57 MH-13 (14.5-15.5) (Lab IDs N7811-1A, -3A, and -4A) is similar to paint thinner/mineral spirits chromatographic pattern although the match is not exact.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,


George Hampton
Laboratory Director

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Lab Contact: Ray Oslowski
Lab ID No.: N7811-1A
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51171
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

Date Sampled: 06/02/97
Date Received: 06/03/97
Date Extracted: 06/03/97
Date Analyzed: 06/05/97
Date Reported: 06/10/97
Client ID No.: 46154 MH-13 @ (4.5-5)

46154 MH-13 @ (4.5-5)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	97	10	10

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Sampled: 06/02/97
Date Received: 06/03/97
Date Extracted: 06/03/97
Date Analyzed: 06/04/97
Date Reported: 06/10/97
Client ID No.: 46156 MH-13 @ (9-9.5)

Lab Contact: Ray Osowski
Lab ID No.: N7811-3A
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51171
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

46156 MH-13 @ (9-9.5)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	32	10	10

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Sampled: 06/02/97
Date Received: 06/03/97
Date Extracted: 06/03/97
Date Analyzed: 06/05/97
Date Reported: 06/10/97
Client ID No.: 46157 MH-13 @ (14.5-15.5)

Lab Contact: Ray Osowski
Lab ID No.: N7811-4A
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51171
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

46157 MH-13 @ (14.5-15.5)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	48	20	20
Diesel	N/A	2.6	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Sampled: 06/02/97
Date Received: 06/03/97
Date Extracted: 06/03/97
Date Analyzed: 06/04/97
Date Reported: 06/10/97
Client ID No.: 46158 MH-14 @ (4.5-5.5)

Lab Contact: Ray Osowski
Lab ID No.: N7811-5A
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51171
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

46158 MH-14 @ (4.5-5.5)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	2.4	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

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Fax (916) 852-7292

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Sampled: 06/02/97
Date Received: 06/03/97
Date Extracted: 06/03/97
Date Analyzed: 06/04/97
Date Reported: 06/10/97
Client ID No.: 46159 MH-14 @ (9.5-10)

Lab Contact: Ray Osowski
Lab ID No.: N7811-6A
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51171
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

46159 MH-14 @ (9.5-10)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	8.0	1.0	1.0

ND - Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7811-8A
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51171
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

Date Sampled: 06/02/97
Date Received: 06/03/97
Date Extracted: 06/03/97
Date Analyzed: 06/04/97
Date Reported: 06/10/97
Client ID No.: 46161 MH-15 @ (4.5-5')

46161 MH-15 @ (4.5-5')

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	4.7	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Sampled: 06/02/97
Date Received: 06/03/97
Date Extracted: 06/03/97
Date Analyzed: 06/05/97
Date Reported: 06/10/97
Client ID No.: 46163 MH-16 @ (4.5-5')

Lab Contact: Ray Osowski
Lab ID No.: N7811-10A
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51171
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

46163 MH-16 @ (4.5-5')

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	1800	200	200

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Sampled: 06/02/97
Date Received: 06/03/97
Date Extracted: 06/03/97
Date Analyzed: 06/04/97
Date Reported: 06/10/97
Client ID No.: 46165 MH-16 @ (9.5-10.5)

Lab Contact: Ray Osowski
Lab ID No.: N7811-12A
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51171
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

46165 MH-16 @ (9.5-10.5)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	200	20	20

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5847

Project: Standard Brands

Date Sampled: 06/02/97
Date Received: 06/03/97
Date Extracted: 06/03/97
Date Analyzed: 06/05/97
Date Reported: 06/10/97
Client ID No.: 46167 MH-17 @ (10-10.5)

Lab Contact: Ray Osowski
Lab ID No.: N7811-14A
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51171
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

46167 MH-17 @ (10-10.5)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	5.3	5.0	5.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Sampled: 06/02/97
Date Received: 06/03/97
Date Extracted: 06/03/97
Date Analyzed: 06/05/97
Date Reported: 06/10/97
Client ID No.: 46169 MH-18 @ (10.5-11.5)

Lab Contact: Ray Osowski
Lab ID No.: N7811-20A
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51171
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

46169 MH-18 @ (10.5-11.5)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
Motor Oil (C22-C32)	N/A	1.6	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Extracted: 06/03/97
Date Analyzed: 06/06/97
Date Reported: 06/10/97

Lab Contact: Ray Osowski
Lab ID No.: N7811
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51171
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Reporting Limit (mg/kg)
Petroleum Hydrocarbons (C7-C32)	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Sonication, EPA Method 3550

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Extracted: 06/03/97
Date Analyzed: 06/05/97
Date Reported: 06/10/97

Lab Contact: Ray Osowski
Lab ID No.: N7811
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51171
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: SOIL

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Diesel (C12-C22)	N/A	5.00	91

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Diesel (C12-C22)	N/A	5.00	93

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Diesel (C12-C22)	N/A	2

CA DORS ELAP Accreditation/Registration Number 1222

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Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Sampled: 06/02/97
Date Received: 06/03/97
Date Extracted: 06/03/97
Date Analyzed: 06/06/97
Date Reported: 06/10/97
Client ID No.: 518356 MH-15

Lab Contact: Ray Osowski
Lab ID No.: N7811-16A
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51168
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

518356 MH-15

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	2.6	0.50	5.0

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Sampled: 06/02/97
Date Received: 06/03/97
Date Extracted: 06/03/97
Date Analyzed: 06/06/97
Date Reported: 06/10/97
Client ID No.: 518357 MH-14

Lab Contact: Ray Osowski
Lab ID No.: N7811-17A
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51168
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

518357 MH-14

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	12	2.0	40

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Lab Contact: Ray Osowski

Date Extracted: 06/03/97

Lab ID No.: N7811

Date Analyzed: 06/06/97

Job No.: 807811

Date Reported: 06/10/97

COC Log No.: AA 2927,28

Batch No.: 51168

Instrument ID: PGC06

Analyst ID: SEPIDEHS

Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Reporting Limit (mg/L)
Petroleum Hydrocarbons (C7-C32)	N/A	ND	0.050

ND = Not detected at or above indicated Reporting Limit

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Lab Contact: Ray Osowski
Lab ID No.: N7811
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51168
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

Date Extracted: 06/03/97
Date Analyzed: 06/06/97
Date Reported: 06/10/97

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Diesel (C12-C22)	N/A	0.500	70

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/L)	LCSD Recovery (percent)
Diesel (C12-C22)	N/A	0.500	71

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Diesel (C12-C22)	N/A	1

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CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS, EPA Method 8270
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Sampled: 06/02/97
Date Received: 06/03/97
Date Extracted: 06/03/97
Date Analyzed: 06/04/97
Date Reported: 06/05/97
Client ID No.: 518358 MH-14

Lab Contact: Ray Osowski
Lab ID No.: N7811-18A
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51170
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: WATER

SURROGATE

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

SD = Surrogate standard recovery data could not be generated due to sample dilution during analysis.

518358 MH-14

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Acenaphthene	83-32-9	ND	1000 (AI)	100
Acenaphthylene	208-96-8	ND	1000	100
Anthracene	120-12-7	ND	1000	100
Benzo(a)anthracene	56-55-3	ND	1000	100
Benzo(b)fluoranthene	205-99-2	ND	1000	100
Benzo(k)fluoranthene	207-08-9	ND	1000	100
Benzo(g,h,i)perylene	191-24-2	ND	1000	100
Benzo(a)pyrene	50-32-8	ND	1000	100
Benzyl alcohol	100-51-6	ND	1000	100
Bis(2-chloroethoxy)methane	111-91-1	ND	1000	100
Bis(2-chloroethyl)ether	111-44-4	ND	1000	100
Bis(2-chloroisopropyl)ether	108-60-1	ND	1000	100
Bis(2-ethylhexyl)phthalate	117-81-7	ND	1000	100
4-Bromophenyl phenyl ether	101-55-3	ND	1000	100
Butylbenzyl phthalate	85-68-7	ND	1000	100
4-Chloroaniline	106-47-8	ND	1000	100
2-Chloronaphthalene	91-58-7	ND	1000	100
4-Chlorophenyl phenyl ether	7005-72-3	ND	1000	100
Chrysene	218-01-9	ND	1000	100
Dibenzo(a,h)anthracene	53-70-3	ND	1000	100
Dibenzofuran	132-64-9	ND	1000	100
Di-n-butylphthalate	84-74-2	ND	1000	100
1,2-Dichlorobenzene	95-50-1	ND	1000	100
1,3-Dichlorobenzene	541-73-1	ND	1000	100
1,4-Dichlorobenzene	106-46-7	ND	1000	100
3,3'-Dichlorobenzidine	91-94-1	ND	2000	100

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road
Rancho Cordova, CA 95742
(916) 638-7301
Fax (916) 638-4510

3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS, EPA Method 8270
 Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
 1135 Atlantic Avenue
 Alameda, CA 94501

Project No.:
 Contact: Nathan King
 Phone: (510)748-5647

Project: Standard Brands

Lab Contact: Ray Osowski
 Lab ID No.: N7811-18A
 Job No.: 807811
 COC Log No.: AA 2927,28
 Batch No.: 51170
 Instrument ID: MS001
 Analyst ID: KALVINL
 Matrix: WATER

Date Sampled: 06/02/97
 Date Received: 06/03/97
 Date Extracted: 06/03/97
 Date Analyzed: 06/04/97
 Date Reported: 06/05/97
 Client ID No.: 518358 MH-14

518358 MH-14 (cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Diethylphthalate	84-66-2	ND	1000	100
Dimethylphthalate	131-11-3	ND	1000	100
24DNT (2,4-Dinitrotoluene)	121-14-2	ND	1000	100
26DNT (2,6-Dinitrotoluene)	606-20-2	ND	1000	100
Di-n-octylphthalate	117-84-0	ND	1000	100
Fluoranthene	206-44-0	ND	1000	100
Fluorene	86-73-7	ND	1000	100
Hexachlorobenzene	118-74-1	ND	1000	100
Hexachlorobutadiene	87-68-3	ND	1000	100
Hexachlorocyclopentadiene	77-47-4	ND	1000	100
Hexachloroethane	67-72-1	ND	1000	100
Indeno (1,2,3-c,d) pyrene	193-39-5	ND	1000	100
Isophorone	78-59-1	ND	1000	100
2-Methylnaphthalene	91-57-6	ND	1000	100
Naphthalene	91-20-3	1300	1000	100
2-Nitroaniline	88-74-4	ND	2500	100
3-Nitroaniline	99-09-2	ND	2500	100
4-Nitroaniline	100-01-6	ND	2500	100
NB (Nitrobenzene)	98-95-3	ND	1000	100
N-Nitrosodiphenylamine	86-30-6	ND	1000	100
N-Nitroso-di-n-propylamine	621-64-7	ND	1000	100
Phenanthrene	85-01-8	ND	1000	100
Pyrene	129-00-0	ND	1000	100
1,2,4-Trichlorobenzene	120-82-1	ND	1000	100
Benzoic Acid	65-85-0	ND	2500	100
4-Chloro-3-methylphenol	59-50-7	ND	1000	100
2-Chlorophenol	95-57-8	ND	1000	100
2,4-Dichlorophenol	120-83-2	ND	1000	100
2,4-Dimethylphenol	105-67-9	ND	1000	100
2,4-Dinitrophenol	51-28-5	ND	2500	100
2-Methyl-4,6-dinitrophenol	534-52-1	ND	2500	100
2-Methylphenol	95-48-7	ND	1000	100
3/4-Methylphenol	N/A	ND	1000	100
2-Nitrophenol	88-75-5	ND	1000	100
4-Nitrophenol	100-02-7	ND	2500	100
Pentachlorophenol	87-86-5	ND	2500	100
Phenol	108-95-2	ND	1000	100
2,4,5-Trichlorophenol	95-95-4	ND	1000	100
2,4,6-Trichlorophenol	88-06-2	ND	1000	100

AI = All report limits have been elevated due to matrix interference.

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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3083 Gold Canal Drive
 Rancho Cordova, CA 95670
 (916) 852-6600
 Fax (916) 852-7292

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS, EPA Method 8270
 Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
 1135 Atlantic Avenue
 Alameda, CA 94501

Project No.:
 Contact: Nathan King
 Phone: (510)748-5647

Project: Standard Brands

Date Extracted: 06/03/97
 Date Analyzed: 06/04/97
 Date Reported: 06/05/97

Lab Contact: Ray Osowski
 Lab ID No.: N7811
 Job No.: 807811
 COC Log No.: AA 2927,28
 Batch No.: 51170
 Instrument ID: MS001
 Analyst ID: KALVINL
 Matrix: WATER

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
Phenol-d5	4165-62-2	75.0	22
2-Fluorophenol	367-12-4	75.0	39
2,4,6-Tribromophenol	118-79-6	75.0	60
Nitrobenzene-d5	4665-60-0	50.0	67
2-Fluorobiphenyl	321-60-8	50.0	74
Terphenyl-d14	98904-43-9	50.0	86

METHOD BLANK

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

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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3083 Gold Canal Drive
 Rancho Cordova, CA 95670
 (916) 852-6600
 Fax (916) 852-7292

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS, EPA Method 8270
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510) 748-5647

Project: Standard Brands

Date Extracted: 06/03/97
Date Analyzed: 06/04/97
Date Reported: 06/05/97

Lab Contact: Ray Osowski
Lab ID No.: N7811
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51170
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: WATER

METHOD BLANK (cont.)

Analyte	CAS No.	Results (ug/L)	Reporting Limit (ug/L)
Diethylphthalate	84-66-2	ND	10
Dimethylphthalate	131-11-3	ND	10
24DNT (2,4-Dinitrotoluene)	121-14-2	ND	10
26DNT (2,6-Dinitrotoluene)	606-20-2	ND	10
Di-n-octylphthalate	117-84-0	ND	10
Fluoranthene	206-44-0	ND	10
Fluorene	86-73-7	ND	10
Hexachlorobenzene	118-74-1	ND	10
Hexachlorobutadiene	87-68-3	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	10
Hexachloroethane	67-72-1	ND	10
Indeno (1,2,3-c,d) pyrene	193-39-5	ND	10
Isophorone	78-59-1	ND	10
2-Methylnaphthalene	91-57-6	ND	10
Naphthalene	91-20-3	ND	10
2-Nitroaniline	88-74-4	ND	25
3-Nitroaniline	99-09-2	ND	25
4-Nitroaniline	100-01-6	ND	25
NB (Nitrobenzene)	98-95-3	ND	10
N-Nitrosodiphenylamine	86-30-6	ND	10
N-Nitroso-di-n-propylamine	621-64-7	ND	10
Phenanthrene	85-01-8	ND	10
Pyrene	129-00-0	ND	10
1,2,4-Trichlorobenzene	120-82-1	ND	10
Benzoic Acid	65-85-0	ND	25
4-Chloro-3-methylphenol	59-50-7	ND	10
2-Chlorophenol	95-57-8	ND	10
2,4-Dichlorophenol	120-83-2	ND	10
2,4-Dimethylphenol	105-67-9	ND	10
2,4-Dinitrophenol	51-28-5	ND	25
2-Methyl-4,6-dinitrophenol	534-52-1	ND	25
2-Methylphenol	95-48-7	ND	10
3/4-Methylphenol	N/A	ND	10
2-Nitrophenol	88-75-5	ND	10
4-Nitrophenol	100-02-7	ND	25
Pentachlorophenol	87-86-5	ND	25
Phenol	108-95-2	ND	10
2,4,5-Trichlorophenol	95-95-4	ND	10
2,4,6-Trichlorophenol	88-06-2	ND	10

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS, EPA Method 8270
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Extracted: 06/03/97
Date Analyzed: 06/04/97
Date Reported: 06/05/97

Lab Contact: Ray Osowski
Lab ID No.: N7811
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51170
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: WATER

LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Surrogate Recovery (percent)
Phenol-d5	4165-62-2	75.0	24
2-Fluorophenol	367-12-4	75.0	42
2,4,6-Tribromophenol	118-79-6	75.0	83
Nitrobenzene-d5	4665-60-0	50.0	78
2-Fluorobiphenyl	321-60-8	50.0	77
Terphenyl-d14	98904-43-9	50.0	86

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
1,2,4-Trichlorobenzene	120-82-1	50.0	60
Acenaphthene	83-32-9	50.0	77
2,4-DNT (2,4-Dinitrotoluene)	121-14-2	50.0	67
Pyrene	129-00-0	50.0	85
N-Nitroso-di-n-propylamine	621-64-7	50.0	67
1,4-Dichlorobenzene	106-46-7	50.0	55
Pentachlorophenol	87-86-5	75.0	78
Phenol	108-95-2	75.0	27
2-Chlorophenol	95-57-8	75.0	72
4-Chloro-3-methylphenol	59-50-7	75.0	76
4-Nitrophenol	100-02-7	75.0	22

LCS DUPLICATE SURROGATE

Analyte	CAS No.	LCSD Conc. (ug/L)	LCSD Surrogate Recovery (percent)
Phenol-d5	4165-62-2	75.0	25
2-Fluorophenol	367-12-4	75.0	44
2,4,6-Tribromophenol	118-79-6	75.0	82
Nitrobenzene-d5	4665-60-0	50.0	79
2-Fluorobiphenyl	321-60-8	50.0	79
Terphenyl-d14	98904-43-9	50.0	103

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road
Rancho Cordova, CA 95742
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Fax (916) 638-4510

3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

CLS Labs

Analysis Report: Semivolatile Organic Compounds by GC/MS, EPA Method 8270
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Extracted: 06/03/97
Date Analyzed: 06/04/97
Date Reported: 06/05/97

Lab Contact: Ray Osowski
Lab ID No.: N7811
Job No.: 807811
COC Log No.: AA 2927,28
Batch No.: 51170
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: WATER

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (ug/L)	LCSD Recovery (percent)
1,2,4-Trichlorobenzene	120-82-1	50.0	67
Acenaphthene	83-32-9	50.0	82
24DNT (2,4-Dinitrotoluene)	121-14-2	50.0	70
Pyrene	129-00-0	50.0	99
N-Nitroso-di-n-propylamine	621-64-7	50.0	71
1,4-Dichlorobenzene	106-46-7	50.0	62
Pentachlorophenol	87-86-5	75.0	81
Phenol	108-95-2	75.0	29
2-Chlorophenol	95-57-8	75.0	76
4-Chloro-3-methylphenol	59-50-7	75.0	79
4-Nitrophenol	100-02-7	75.0	24

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
1,2,4-Trichlorobenzene	120-82-1	11
Acenaphthene	83-32-9	6
24DNT (2,4-Dinitrotoluene)	121-14-2	4
Pyrene	129-00-0	15
N-Nitroso-di-n-propylamine	621-64-7	6
1,4-Dichlorobenzene	106-46-7	12
Pentachlorophenol	87-86-5	4
Phenol	108-95-2	7
2-Chlorophenol	95-57-8	5
4-Chloro-3-methylphenol	59-50-7	4
4-Nitrophenol	100-02-7	9

CA DOHS ELAP Accreditation/Registration Number 1233

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Rancho Cordova, CA 95670
(916) 852-6600
Fax (916) 852-7292

REPORT TO:
ADDRESS: M/H - ALAMEDA
PROJECT MANAGER: NATHAN KING / ALAMEDA
PROJECT NAME: STANDARD BRANDS
SAMPLED BY: C GIUNTOLI
JOB DESCRIPTION:
SITE LOCATION: EMERYVILLE

CLIENT JOB NUMBER: 030602368001001
DESTINATION LABORATORY:
 CLS (916) 638-7301
 3249 FITZGERALD RD.
 RANCHO CORDOVA, CA 95742
 OTHER

ANALYSIS REQUESTED

PRESERVATIVES

8240
8270

FIELD CONDITIONS:
COMPOSITE:
TURN AROUND TIME:
SPECIAL INSTRUCTIONS:

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER		PRESERVATIVE	X	8240	8270	1 DAY	2 DAY	5 DAY	10 DAY	SPECIAL INSTRUCTIONS
				NO.	TYPE									
4/11/97	910	MH-21 521322-25	H ₂ O	4	V	HCl	X							ANALYZE SAME DAY/TAT ASAP. FAX RESULTS TO PM
	955	MH-22 521326-27					X							
6/11/97	1005	MH-5 521330		1	A	NP		X						3-DAY TAT

SUSPECTED CONSTITUENTS: _____ **SAMPLE RETENTION TIME:** _____ **PRESERVATIVES:** (1) HCL (2) HNO₃ (3) = GOLD (4)

RELINQUISHED BY (SIGN): *[Signature]* **PRINT NAME / COMPANY:** CHRIS GIUNTOLI / M/H **DATE / TIME:** 4/11/97 1113 **RECEIVED BY (SIGN):** *[Signature]* **PRINT NAME / COMPANY:** MARK SMITH / CLS

REC'D AT LAB BY: _____ **DATE / TIME:** _____ **CONDITIONS / COMMENTS:** _____

SHIPPED VIA: FED X UPS OTHER _____ **AIR BILL #:** _____

To: Nathan King

Date: 6-16-97

From: California Laboratory Services

Page 001 of 004

***** This report is also available via E-MAIL. *****
* You may request individual or all reports also be sent to you *
* via e-mail directly to your desk. You may also request that *
* you would like both fax and e-mail reports be sent. For more *
* information, send an e-mail request to admc@clselis.com. *

The following facsimile report is of a final nature. Interpretation of the report results should be made only after the complete report package has been delivered.

JUN 16 '97 09:34

1-916-638-4510

PAGE.001

California Laboratory Services

Environmental Laboratory Information System

This report was sent automatically. In the event of an incomplete transmittance, 5 attempts will be made to send the complete number of pages for this report. If you have any questions, please call (916)638-7301 for assistance.

To: Nathan King

Date:6-12-97

From: California Laboratory Services

Page 001 of 004

***** This report is also available via E-MAIL. *****
* You may request individual or all reports also be sent to you *
* via e-mail directly to your desk. You may also request that *
* you would like both fax and e-mail reports be sent. For more *
* information, send an e-mail request to adme@clselis.com. *

The following facsimile report is of a FINAL nature and as such does not include data that will be forthcoming in the complete report package. Interpretation of the report results should be made only after the complete report package has been delivered.

JUN 12 '97 14:32

1-916-638-4510

PAGE.001

ANALYTICAL RESULTS SUMMARY

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.: 030602368.001.001
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Lab Contact: Ray Oslowski

Date Received: 06/11/97

Lab ID No.: N7932

Date Reported: 06/12/97

Job No.: 807932

COC Log No.: 28554

ALL RESULTS

of 004

Client	Sample I.D. Lab Analyte	Method I.D.	Results	Rep. Limit	
MH-21	521322-25 1A	1,1,1-Trichloroethane	E8240W	ND	5.0 ug/L
	1,1,2,	2-Tetrachloroethane		ND	5.0 ug/L
	1,1,2-Trichloroethane		ND	5.0 ug/L	
	1,1-Dichloroethane		ND	5.0 ug/L	
	1,1-Dichloroethene		ND	5.0 ug/L	
	1,2-Dichlorobenzene		ND	5.0 ug/L	
	1,2-Dichloroethane		ND	5.0 ug/L	
	1,2-Dichloropropane		ND	5.0 ug/L	
	1,3-Dichlorobenzene		ND	5.0 ug/L	
	1,4-Dichlorobenzene		ND	5.0 ug/L	
	2-Butanone		ND	25 ug/L	
	2-Hexanone		ND	25 ug/L	
	4-Methyl-2-pentanone		ND	25 ug/L	
	Acetone		ND	25 ug/L	
	Benzene		ND	5.0 ug/L	
	Bromodichloromethane		ND	5.0 ug/L	
	Bromoform		ND	5.0 ug/L	
	Bromomethane		ND	10 ug/L	
	Carbon disulfide		ND	5.0 ug/L	
	Carbon tetrachloride		ND	5.0 ug/L	
	Chlorobenzene		ND	5.0 ug/L	
	Chloroethane		ND	10 ug/L	
	Chloroform		ND	5.0 ug/L	
	Chloromethane		ND	10 ug/L	
	Dibromochloromethane		ND	5.0 ug/L	
	Ethylbenzene		ND	5.0 ug/L	
	Methylene chloride		ND	5.0 ug/L	
	Styrene		ND	5.0 ug/L	
	Tetrachloroethene		ND	5.0 ug/L	
	Toluene		ND	5.0 ug/L	

CA DOHS ELAP Accreditation/Registration Number 1233

JUN 12 '97 14:32

1-916-638-4510

PAGE.002

ANALYTICAL RESULTS SUMMARY

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.: 030602368.001.001
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Lab Contact: Ray Osowski

Date Received: 06/11/97

Lab ID No.: N7932

Date Reported: 06/12/97

Job No.: 807932

COC Log No.: 28554

ALL RESULTS(cont.)

Client	Sample I.D. Lab Analyte	Method I.D.	Results	Rep. Limit
	Trichloroethene		27	5.0 ug/L
	Trichlorofluoromethane		ND	10 ug/L
	Vinyl chloride		ND	10 ug/L
	cis-1,2-Dichloroethene		81	5.0 ug/L
	cis-1, 3-Dichloropropene		ND	5.0 ug/L
	m/p-Xylenes		7.5	5.0 ug/L
	o-Xylenes		ND	5.0 ug/L
	trans-1, 2-Dichloroethene		ND	5.0 ug/L
	trans-1, 3-Dichloropropene		ND	5.0 ug/L
MH-22 521326-29 2A	1,1,1-Trichloroethane	E8240W	ND	5.0 ug/L
	1,1,2, 2-Tetrachloroethane		ND	5.0 ug/L
	1,1,2-Trichloroethane		ND	5.0 ug/L
	1,1-Dichloroethane		ND	5.0 ug/L
	1,1-Dichloroethene		ND	5.0 ug/L
	1,2-Dichlorobenzene		ND	5.0 ug/L
	1,2-Dichloroethane		ND	5.0 ug/L
	1,2-Dichloropropane		ND	5.0 ug/L
	1,3-Dichlorobenzene		ND	5.0 ug/L
	1,4-Dichlorobenzene		ND	5.0 ug/L
	2-Butanone		ND	25 ug/L
	2-Hexanone		ND	25 ug/L
	4-Methyl-2-pentanone		ND	25 ug/L
	Acetone		ND	25 ug/L
	Benzene		ND	5.0 ug/L
	Bromodichloromethane		ND	5.0 ug/L
	Bromoform		ND	5.0 ug/L

ANALYTICAL RESULTS SUMMARY

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.: 030602368.001.001
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Lab Contact: Ray Osowski

Date Received: 06/11/97

Lab ID No.: N7932

Date Reported: 06/12/97

Job No.: 807932

COC Log No.: 20554

ALL RESULTS(cont.)

Client	Sample I.D. Lab Analyte	Method I.D.	Results	Rep. Limit
	Bromomethane		ND	10 ug/L
	Carbon disulfide		ND	5.0 ug/L
	Carbon tetrachloride		ND	5.0 ug/L
	Chlorobenzene		ND	5.0 ug/L
	Chloroethane		ND	10 ug/L
	Chloroform		ND	5.0 ug/L
	Chloromethane		ND	10 ug/L
	Dibromochloromethane		ND	5.0 ug/L
	Ethylbenzene		ND	5.0 ug/L
	Methylene chloride		ND	5.0 ug/L
	Styrene		ND	5.0 ug/L
	Tetrachloroethene		ND	5.0 ug/L
	Toluene		ND	5.0 ug/L
	Trichloroethene		ND	5.0 ug/L
	Trichlorofluoromethane		ND	10 ug/L
	Vinyl chloride		ND	10 ug/L
	cis-1,2-Dichloroethene		ND	5.0 ug/L
	cis-1, 3-Dichloropropene		ND	5.0 ug/L
	m/p-Xylenes		ND	5.0 ug/L
	o-Xylenes		ND	5.0 ug/L
	trans-1, 2-Dichloroethene		ND	5.0 ug/L
	trans-1, 3-Dichloropropene		ND	5.0 ug/L

Analysis Report: Semivolatile Organic Compounds by GC/MS, EPA Method 8270
Continuous Liquid-Liquid, EPA Method 3520

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.: 030602368.001.001
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Date Sampled: 06/11/97
Date Received: 06/11/97
Date Extracted: 06/11/97
Date Analyzed: 06/13/97
Date Reported: 06/16/97
Client ID No.: MH-5 521330

Lab Contact: Ray Oslowski
Lab ID No.: N7932-3A
Job No.: 807932
COC Log No.: 28554
Batch No.: 51206
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: WATER

MH-5 521330

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	ND	10	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

ND = Not detected at or above indicated Reporting Limit

**Analysis Report: Semivolatile Organic Compounds by GC/MS, EPA Method 8270
Continuous Liquid-Liquid, EPA Method 3520**

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.: 030602368.001.001
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Lab Contact: Ray Oslowski

Lab ID No.: N7932-3A

Job No.: 807932

CDC Log No.: 28554

Batch No.: 51206

Instrument ID: MS001

Analyst ID: KALVINL

Matrix: WATER

Date Sampled: 06/11/97
Date Received: 06/11/97
Date Extracted: 06/11/97
Date Analyzed: 06/13/97
Date Reported: 06/16/97
Client ID No.: MH-5 521330

MH-5 521330(cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
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
4-DNT (2,4-Dinitrotoluene)	121-14-2	ND	10	1.0
6-DNT (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

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233E

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PAGE.003

**Analysis Report: Semivolatile Organic Compounds by GC/MS, EPA Method 8270
Continuous Liquid-Liquid, EPA Method 3520**

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.: 030602368.001.001
Contact: Nathan King
Phone: (510)748-5647

Project: Standard Brands

Lab Contact: Ray Oslowski
Lab ID No.: N7932-3A
Job No.: 807932
CDC Log No.: 28554
Batch No.: 51206
Instrument ID: MS001
Analyst ID: KALVINL
Matrix: WATER

Date Sampled: 06/11/97
Date Received: 06/11/97
Date Extracted: 06/11/97
Date Analyzed: 06/13/97
Date Reported: 06/16/97
Client ID No.: MH-5 521330

004

MH-5 521330(cont.)

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
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	10	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

CLS Labs

McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

05/30/97

Attention: Brad Wright

Reference: Analytical Results

Project Name: Standard Brands
Project No.:
Date Received: 05/23/97
Chain Of Custody: NO NUMBER

CLS ID No.: N7677
CLS Job No.: 807677

The following analyses were performed on the above referenced project:

<u>No. of Samples</u>	<u>Turnaround Time</u>	<u>Analysis Description</u>
3	3 Days	TPH Fingerprint, EPA m-8015
4	3 Days	Purgeable Aromatics by 8020 (water)

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,


George Hampton
Laboratory Director

3249 Fitzgerald Road
Rancho Cordova, CA 95742
(916) 638-7301
Fax (916) 638-4510

3083 Gold Canal Drive
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Fax (916) 852-7292

CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 519829 MW-2

Lab Contact: Ray Osowski
Lab ID No.: N7677-5A
Job No.: 807677
COC Log No.: NO NUMBER
Batch No.: 51127
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

519829 MW-2

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
Petroleum Hydrocarbons (C7-C32)	N/A	ND	0.050	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 519834 MW-1

Lab Contact: Ray Osowski
Lab ID No.: N7677-6A
Job No.: 807677
COC Log No.: NO NUMBER
Batch No.: 51127
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

519834 MW-1

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
Petroleum Hydrocarbons (C7-C32)	N/A	ND	0.050	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97
Client ID No.: 519839 MW-3

Lab Contact: Ray Osowski
Lab ID No.: N7677-7A
Job No.: 807677
COC Log No.: NO NUMBER
Batch No.: 51127
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

519839 MW-3

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Dilution (factor)
Paint Thinner/Mineral Spirits (C8-C14)	8032-32-4	0.83	0.050	1.0
Diesel	N/A	0.21	0.050	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7677
Job No.: 807677
COC Log No.: NO NUMBER
Batch No.: 51127
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Reporting Limit (mg/L)
Petroleum Hydrocarbons (C7-C32)	N/A	ND	0.050

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Fuel Fingerprinting, EPA 8015 Modified.
Separatory Funnel, EPA Method 3510

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: 05/23/97
Date Analyzed: 05/28/97
Date Reported: 05/30/97

Lab Contact: Ray Osowski
Lab ID No.: N7677
Job No.: 807677
COC Log No.: NO NUMBER
Batch No.: 51127
Instrument ID: PGC06
Analyst ID: SEPIDEHS
Matrix: WATER

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Diesel (C12-C22)	N/A	0.500	84

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/L)	LCSD Recovery (percent)
Diesel (C12-C22)	N/A	0.500	84

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Diesel (C12-C22)	N/A	0

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Analysis Report: Aromatic Volatile Organics, EPA Method 602

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: N/A
Date Analyzed: 05/28/97
Date Reported: 05/29/97
Client ID No.: 519830-33 MW-2

Lab Contact: Ray Osowski
Lab ID No.: N7677-1A
Job No.: 807677
COC Log No.: NO NUMBER
Batch No.: 51148
Instrument ID: VGC04
Analyst ID: LIWEIL
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	8.00	116

519830-33 MW-2

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Benzene	71-43-2	ND	0.50	1.0
Chlorobenzene	108-90-7	ND	0.50	1.0
1,2-Dichlorobenzene	95-50-1	ND	0.50	1.0
1,3-Dichlorobenzene	541-73-1	ND	0.50	1.0
1,4-Dichlorobenzene	106-46-7	ND	0.50	1.0
Ethylbenzene	100-41-4	ND	0.50	1.0
Toluene	108-88-3	ND	0.50	1.0
Xylenes, total	1330-20-7	ND	1.5	1.0
Methyl t-butyl ether	1634-04-4	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Aromatic Volatile Organics, EPA Method 602

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: N/A
Date Analyzed: 05/28/97
Date Reported: 05/29/97
Client ID No.: 519835-38 MW-1

Lab Contact: Ray Osowski
Lab ID No.: N7677-2A
Job No.: 807677
COC Log No.: NO NUMBER
Batch No.: 51148
Instrument ID: VGC04
Analyst ID: LIWEIL
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	8.00	116
519835-38 MW-1			

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Benzene	71-43-2	ND	0.50	1.0
Chlorobenzene	108-90-7	ND	0.50	1.0
1,2-Dichlorobenzene	95-50-1	ND	0.50	1.0
1,3-Dichlorobenzene	541-73-1	ND	0.50	1.0
1,4-Dichlorobenzene	106-46-7	ND	0.50	1.0
Ethylbenzene	100-41-4	ND	0.50	1.0
Toluene	108-88-3	ND	0.50	1.0
Xylenes, total	1330-20-7	ND	1.5	1.0
Methyl t-butyl ether	1634-04-4	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

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CLS Labs

Analysis Report: Aromatic Volatile Organics, EPA Method 602

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: N/A
Date Analyzed: 05/28/97
Date Reported: 05/29/97
Client ID No.: 519840-43 MW-3

Lab Contact: Ray Osowski
Lab ID No.: N7677-3A
Job No.: 807677
COC Log No.: NO NUMBER
Batch No.: 51148
Instrument ID: VGC04
Analyst ID: LIWEIL
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	8.00	126

519840-43 MW-3

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Benzene	71-43-2	ND	0.50	1.0
Chlorobenzene	108-90-7	ND	0.50	1.0
1,2-Dichlorobenzene	95-50-1	ND	0.50	1.0
1,3-Dichlorobenzene	541-73-1	ND	0.50	1.0
1,4-Dichlorobenzene	106-46-7	ND	0.50	1.0
Ethylbenzene	100-41-4	ND	0.50	1.0
Toluene	108-88-3	ND	0.50	1.0
Xylenes, total	1330-20-7	ND	1.5	1.0
Methyl t-butyl ether	1634-04-4	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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CLS Labs

Analysis Report: Aromatic Volatile Organics, EPA Method 602

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Sampled: 05/22/97
Date Received: 05/23/97
Date Extracted: N/A
Date Analyzed: 05/28/97
Date Reported: 05/29/97
Client ID No.: 519825-28 Trip Blank

Lab Contact: Ray Osowski
Lab ID No.: N7677-4A
Job No.: 807677
COC Log No.: NO NUMBER
Batch No.: 51148
Instrument ID: VGC04
Analyst ID: LIWEIL
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	8.00	113
519825-28 TRIP BLANK			

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Benzene	71-43-2	ND	0.50	1.0
Chlorobenzene	108-90-7	ND	0.50	1.0
1,2-Dichlorobenzene	95-50-1	ND	0.50	1.0
1,3-Dichlorobenzene	541-73-1	ND	0.50	1.0
1,4-Dichlorobenzene	106-46-7	ND	0.50	1.0
Ethylbenzene	100-41-4	ND	0.50	1.0
Toluene	108-88-3	ND	0.50	1.0
Xylenes, total	1330-20-7	ND	1.5	1.0
Methyl t-butyl ether	1634-04-4	ND	2.0	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road
Rancho Cordova, CA 95742
(916) 638-7301
Fax (916) 638-4510

3083 Gold Canal Drive
Rancho Cordova, CA 95670
(916) 852-6600
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CLS Labs

Analysis Report: Aromatic Volatile Organics, EPA Method 602

Client: McLaren/Hart-Alameda
1135 Atlantic Avenue
Alameda, CA 94501

Project No.:
Contact: Brad Wright
Phone: (510) 521-5200

Project: Standard Brands

Date Extracted: N/A
Date Analyzed: 05/27/97
Date Reported: 05/29/97

Lab Contact: Ray Osowski
Lab ID No.: N7677
Job No.: 807677
COC Log No.: NO NUMBER
Batch No.: 51148
Instrument ID: VGC04
Analyst ID: LIWEIL
Matrix: WATER

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	8.00	113

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Reporting Limit (ug/L)
Benzene	71-43-2	ND	0.50
Chlorobenzene	108-90-7	ND	0.50
1,2-Dichlorobenzene	95-50-1	ND	0.50
1,3-Dichlorobenzene	541-73-1	ND	0.50
1,4-Dichlorobenzene	106-46-7	ND	0.50
Ethylbenzene	100-41-4	ND	0.50
Toluene	108-88-3	ND	0.50
Xylenes, total	1330-20-7	ND	1.5
Methyl t-butyl ether	1634-04-4	ND	2.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

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Matrix: WATER

LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	8.00	113

LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Benzene	71-43-2	10.0	105
Toluene	108-88-3	10.0	94

LCS DUPLICATE SURROGATE

Analyte	CAS No.	LCSD Conc. (ug/L)	LCSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	8.00	111

LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (ug/L)	LCSD Recovery (percent)
Toluene	108-88-3	10.0	110
Benzene	71-43-2	10.0	100

LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Toluene	108-88-3	16
Benzene	71-43-2	5

CA DOHS ELAP Accreditation/Registration Number 1233

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FRIEDMAN AND BRUYA
CERTIFIED ANALYTICAL REPORTS

0617TCL.RPT

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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June 2, 1997

Clif Davenport, Project Manager
McLaren/Hart
1135 Atlantic Avenue
Alameda, CA 94501

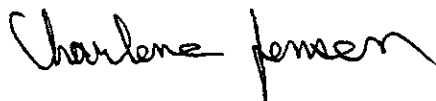
Dear Mr. Davenport:

Included are the results from the testing of material submitted on May 24, 1997 from your N7679 project. The HFS analysis for sample #MH-1 was run using the extract from the 8270 analysis. The surrogates for the 8270 analysis appear in the chromatographs. The surrogates normally used for HFS analysis are not present.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Jensen
Chemist

keh
Enclosures
MH10602R.DOC

Date of Report: June 2, 1997
Date Received: May 24, 1997
Project: N7679
Date Samples Extracted: May 28, 1997
Date Extracts Analyzed: May 28, 1997

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR FINGERPRINT CHARACTERIZATION
BY CAPILLARY GAS CHROMATOGRAPHY
USING A FLAME IONIZATION DETECTOR (FID)
AND ELECTRON CAPTURE DETECTOR (ECD)**

Sample ID

GC Characterization

MH-1

The GC trace using the flame ionization detector (FID) showed the presence of high boiling compounds. The patterns displayed by these peaks are indicative of lubricating oil.

The high boiling compounds appeared as a broad hump of an unresolved pattern of peaks eluting from approximately $n\text{-C}_{14}$ to $n\text{-C}_{32}$ showing a maximum near $n\text{-C}_{22}$.

Date of Report: June 2, 1997
Date Received: May 24, 1997
Project: N7679
Date Samples Extracted: May 25 and 28, 1997
Date Extracts Analyzed: May 25 and 28, 1997

**RESULTS FROM THE ANALYSIS OF PRODUCT SAMPLES
FOR FINGERPRINT CHARACTERIZATION
BY CAPILLARY GAS CHROMATOGRAPHY
USING A FLAME IONIZATION DETECTOR (FID)
AND ELECTRON CAPTURE DETECTOR (ECD)**

Sample ID

GC Characterization

MH-4

The GC trace using the flame ionization detector (FID) showed the presence of medium to high boiling compounds. The patterns displayed by these peaks are indicative of crude oil.

The medium to high boiling compounds appeared as a pattern of peaks eluting from approximately *n*-C₉ to beyond *n*-C₃₂ showing a maximum near *n*-C₁₈. A dominant pattern of *n*-alkanes was not seen for this material.

The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis. There is a second surrogate present that is seen on the GC/ECD trace at about 26 minutes which is dibutyl chlorendate.

MH-4 (emulsion)

The GC trace using the flame ionization detector (FID) showed the presence of medium to high boiling compounds. The patterns displayed by these peaks are indicative of crude oil.

The medium to high boiling compounds appeared as a pattern of peaks eluting from approximately *n*-C₉ to beyond *n*-C₃₂ showing a maximum near *n*-C₁₈. A dominant pattern of *n*-alkanes was not seen for this material.

The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis. There is a second surrogate present that is seen on the GC/ECD trace at about 26 minutes which is dibutyl chlorendate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By 8270 SIM Method

Client Sample ID:	MH-1	Client:	McLaren/Hart
Date Received:	05/24/97	Project:	N7679
Date Extracted:	05/27/97	Lab ID:	78381 1:10
Date Analyzed:	05/31/97	Data File:	053112.D
Matrix:	Water	Instrument:	GCMS#2
Units:	ug/L (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Decafluorobiphenyl	105	50	150

Compounds:	Concentration ug/L (ppb)
Naphthalene	<1
Acenaphthylene	<1
Acenaphthene	<1
Fluorene	<1
Phenanthrene	<1
Anthracene	<1
Fluoranthene	<1
Pyrene	2
Benzo[a]anthracene	1
Chrysene	<1
Benzo(a)pyrene	<1
Benzo(b)fluoranthene	<1
Benzo(k)fluoranthene	<1
Indeno(1,2,3-cd)pyrene	<1
Dibenz(a,h)anthracene	<1
Benzo(g,h,i)perylene	<1

The sample was diluted due to high levels of material. Detection limits are raised due to dilution.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By 8270 SIM Method

Client Sample ID:	MH-4	Client:	McLaren/Hart
Date Received:	05/24/97	Project:	N7679
Date Extracted:	05/27/97	Lab ID:	78382 1:10
Date Analyzed:	06/02/97	Data File:	060204.D
Matrix:	Water	Instrument:	GCMS#2
Units:	ug/L (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Decafluorobiphenyl	70	50	150

Compounds:	Concentration ug/L (ppb)
Naphthalene	2
Acenaphthylene	3
Acenaphthene	4
Fluorene	12
Phenanthrene	19
Anthracene	13
Fluoranthene	7
Pyrene	36
Benzo[a]anthracene	15
Chrysene	33
Benzo(a)pyrene	9
Benzo(b)fluoranthene	6
Benzo(k)fluoranthene	<1
Indeno(1,2,3-cd)pyrene	<1
Dibenz(a,h)anthracene	<1
Benzo(g,h,i)perylene	2

The sample was diluted due to high levels of material. Detection limits are raised due to dilution.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By 8270 SIM Method

Client Sample ID:	Method Blank	Client:	McLaren/Hart
Date Received:	05/24/97	Project:	N7679
Date Extracted:	05/27/97	Lab ID:	mb 07-302
Date Analyzed:	05/31/97	Data File:	053107.D
Matrix:	Water	Instrument:	GCMS#2
Units:	ug/L (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Decafluorobiphenyl	102	50	150

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	<0.1
Benzo[a]anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: June 2, 1997

Date Received: May 24, 1997

Project: N7679

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8270**

Laboratory Code: Spike Blank

Analyte	Reporting Units	Spike Level	% Recovery MS	% Recovery MSD	Acceptance Criteria	Relative Percent Difference
Acenaphthene	µg/L (ppb)	10	96	100	46-118	4
Pyrene	µg/L (ppb)	10	97	102	23-127	5

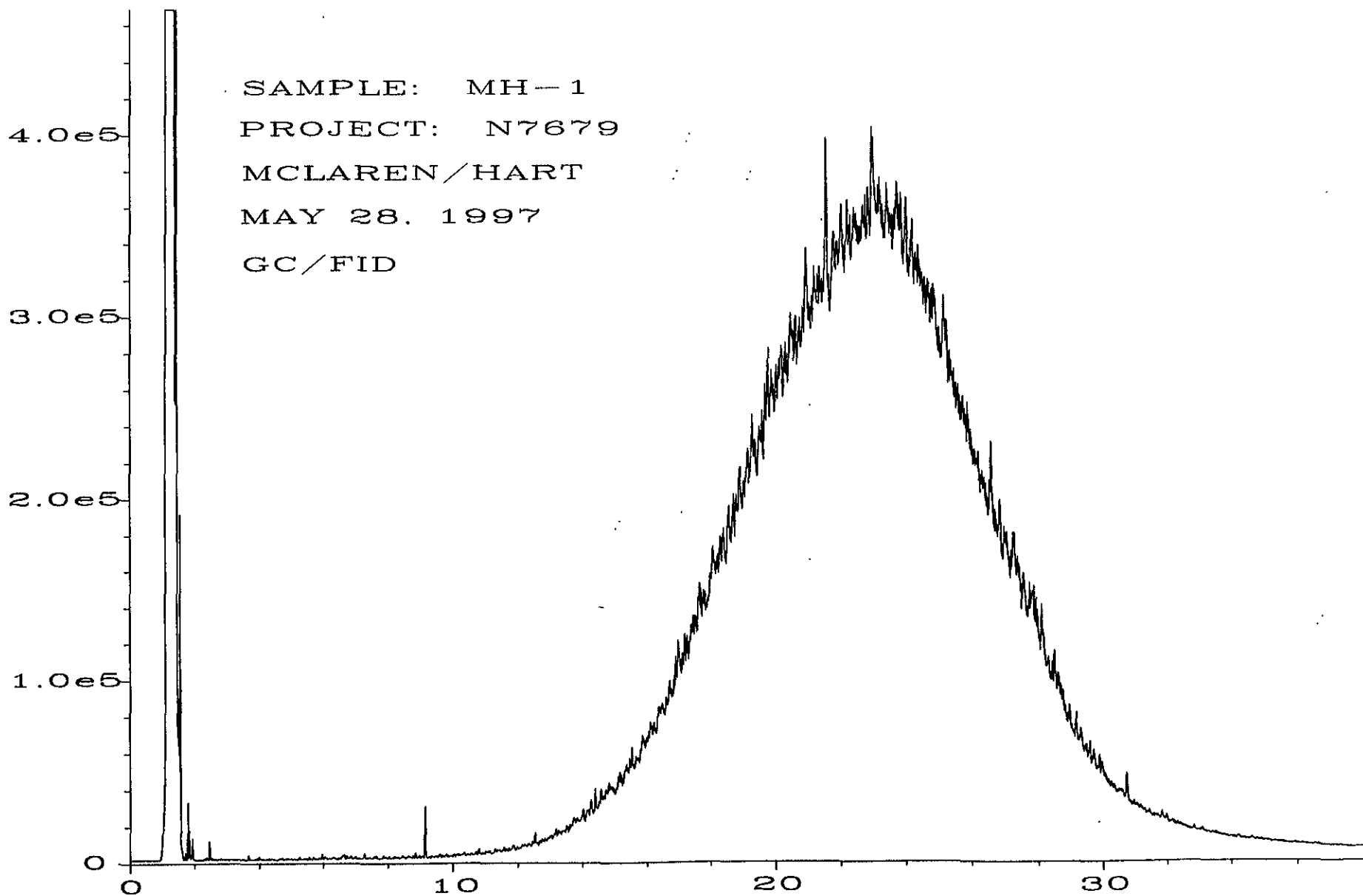


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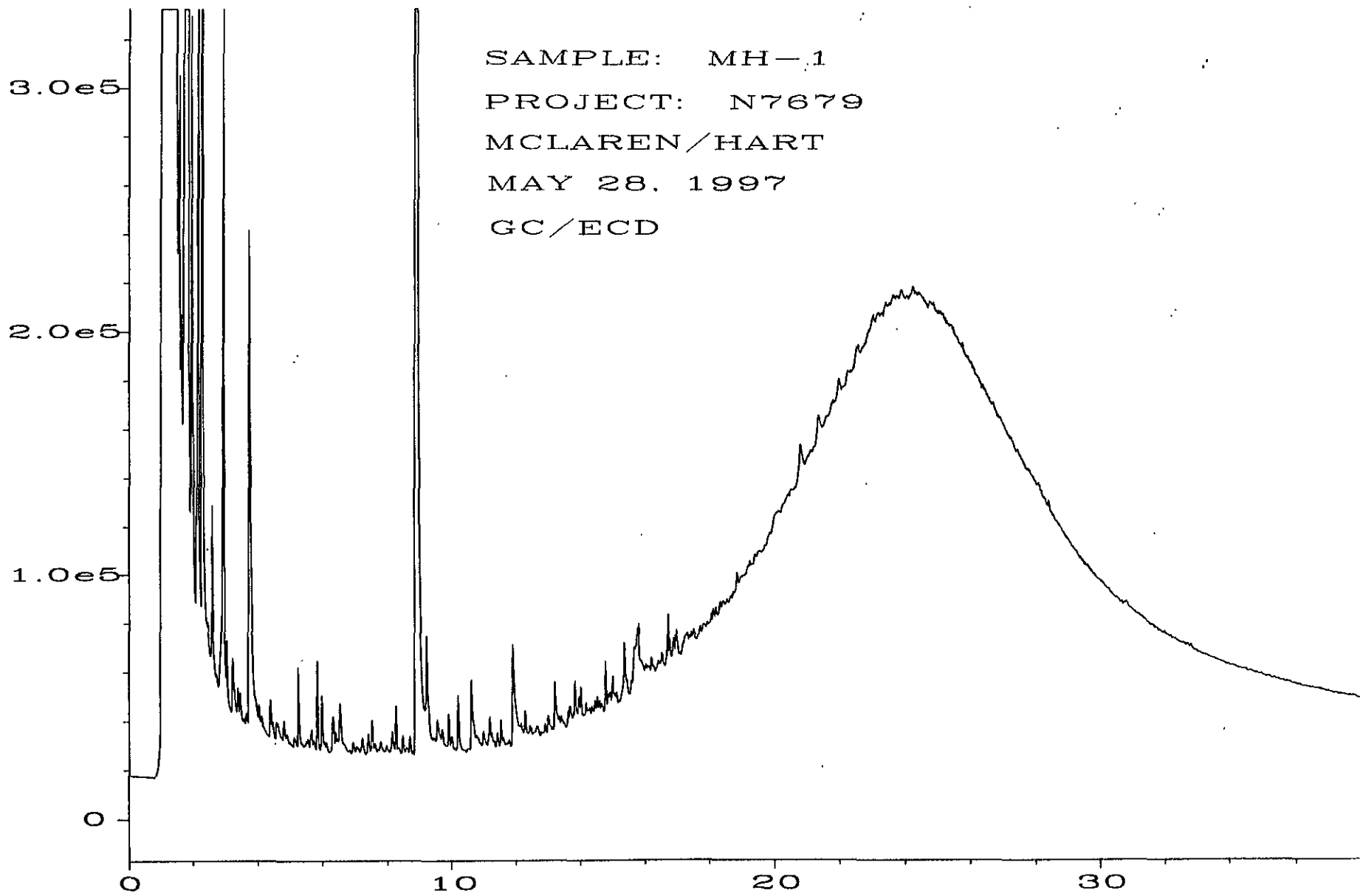


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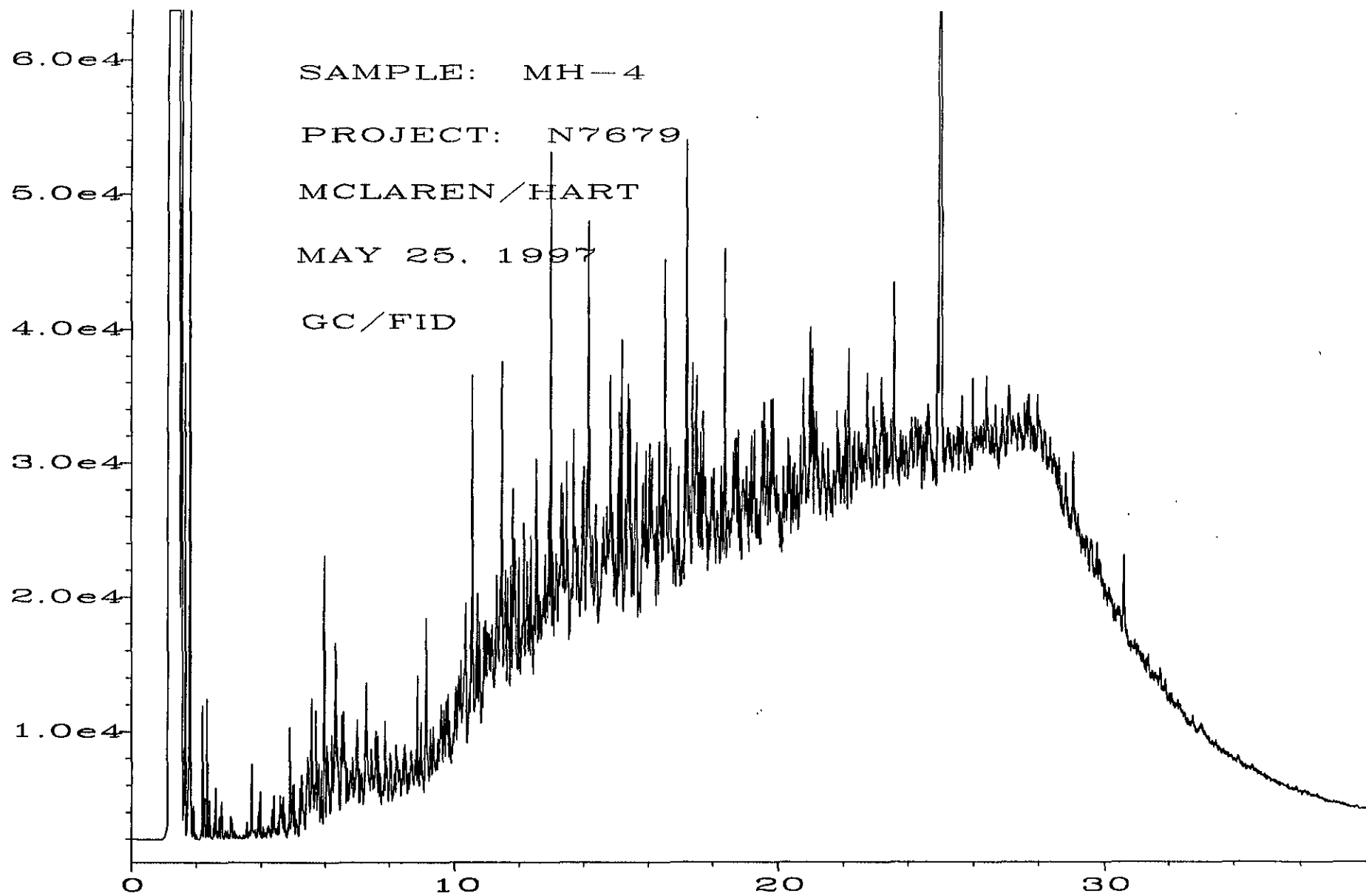


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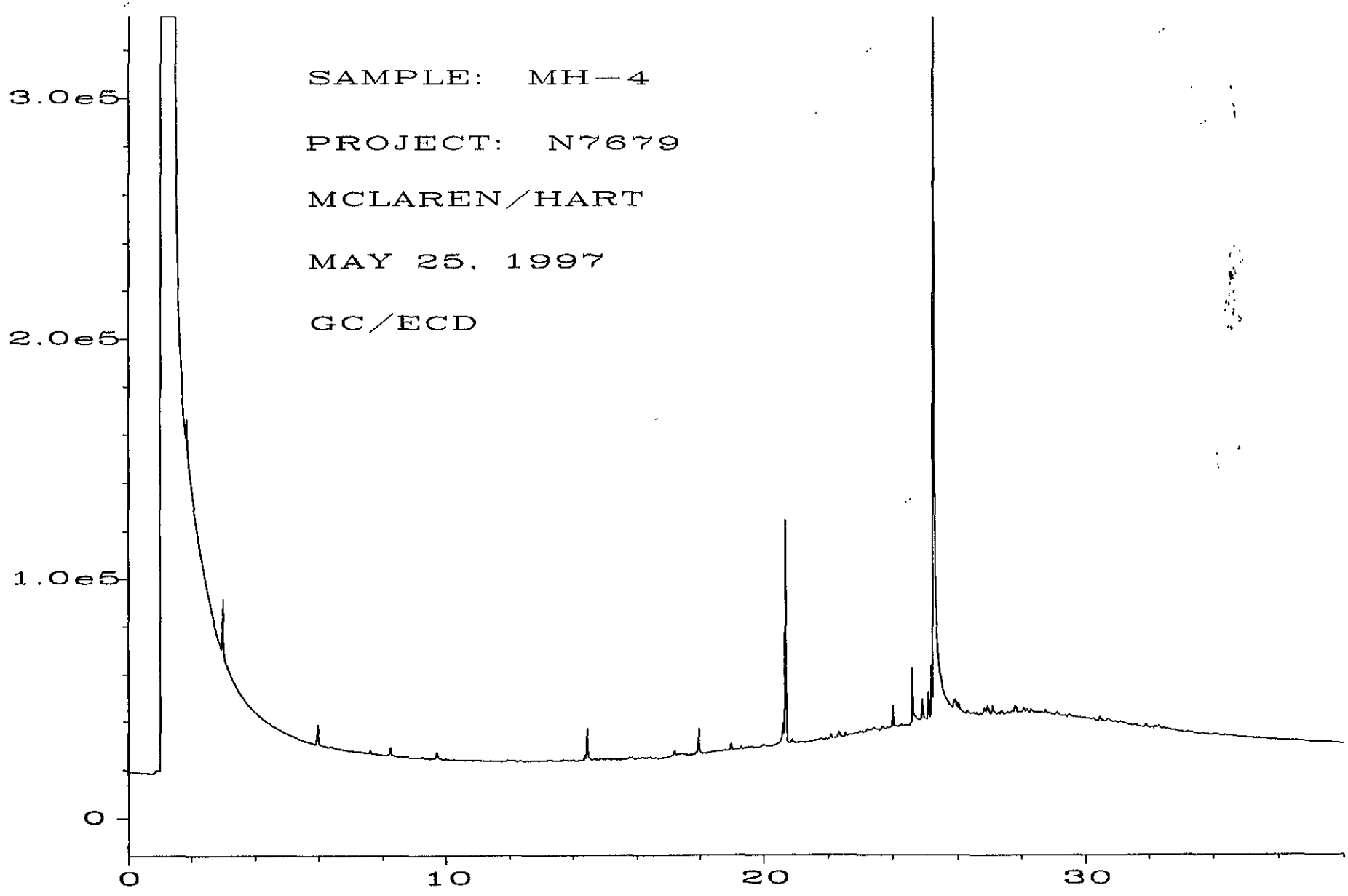


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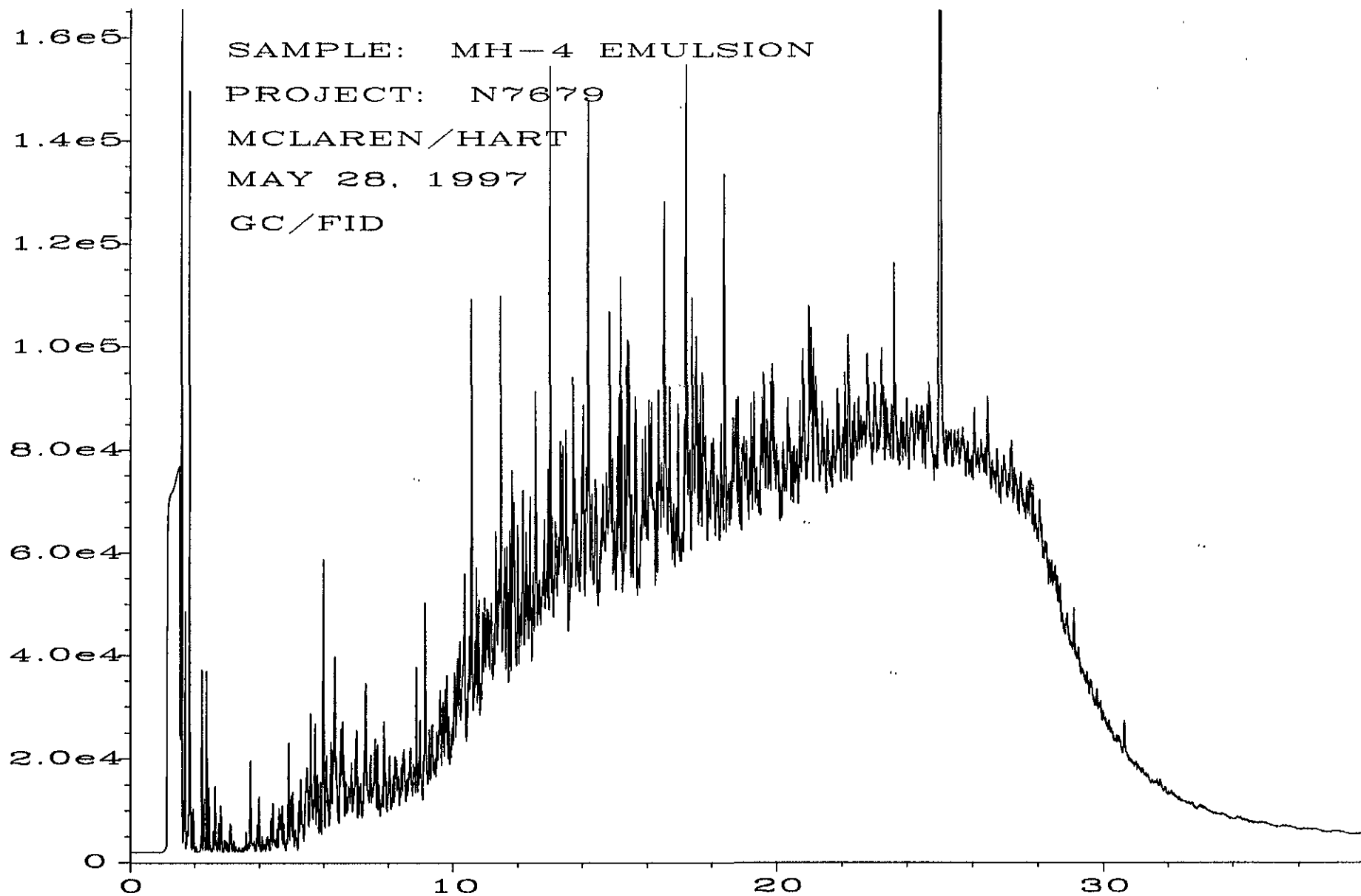


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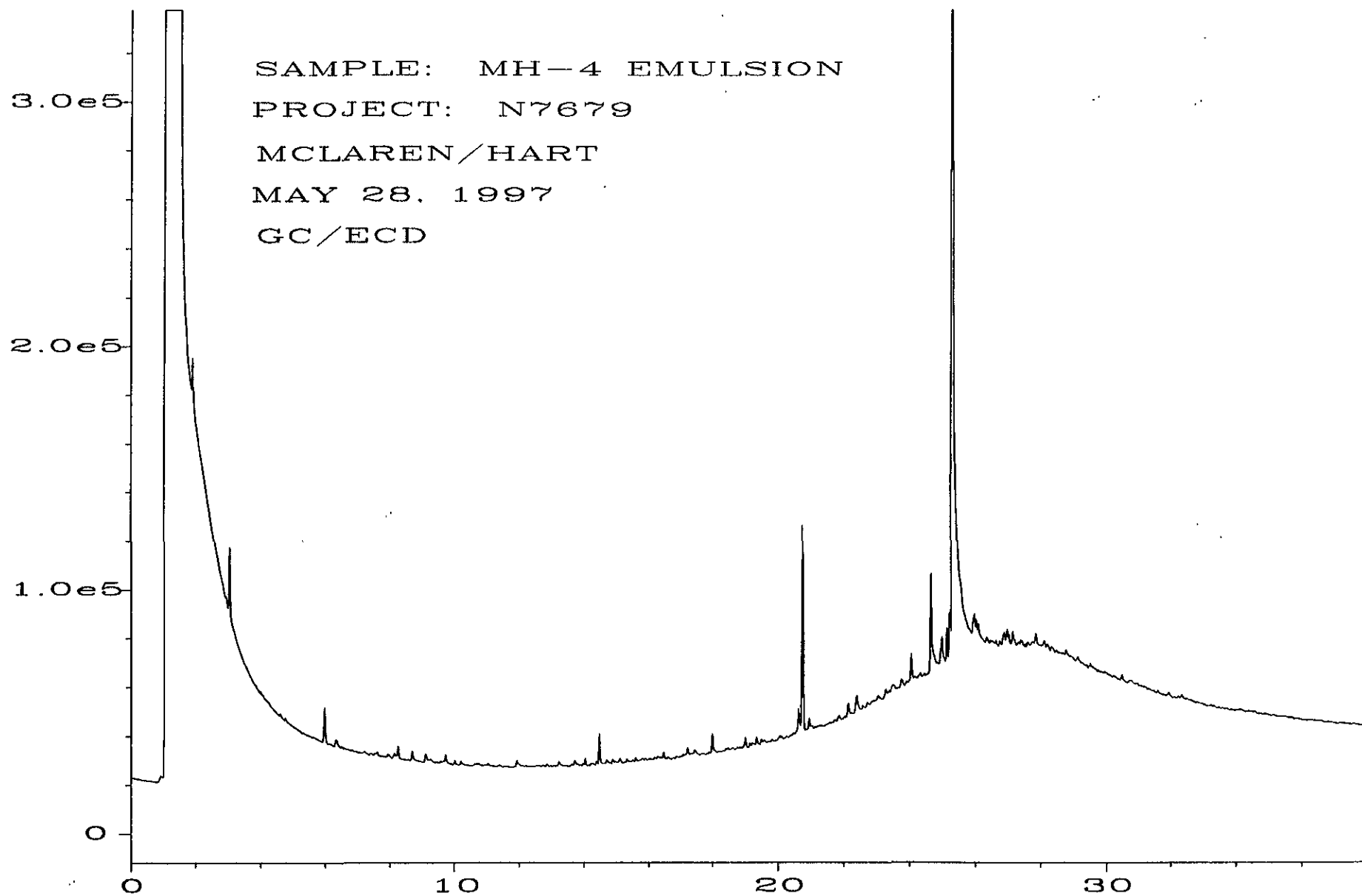


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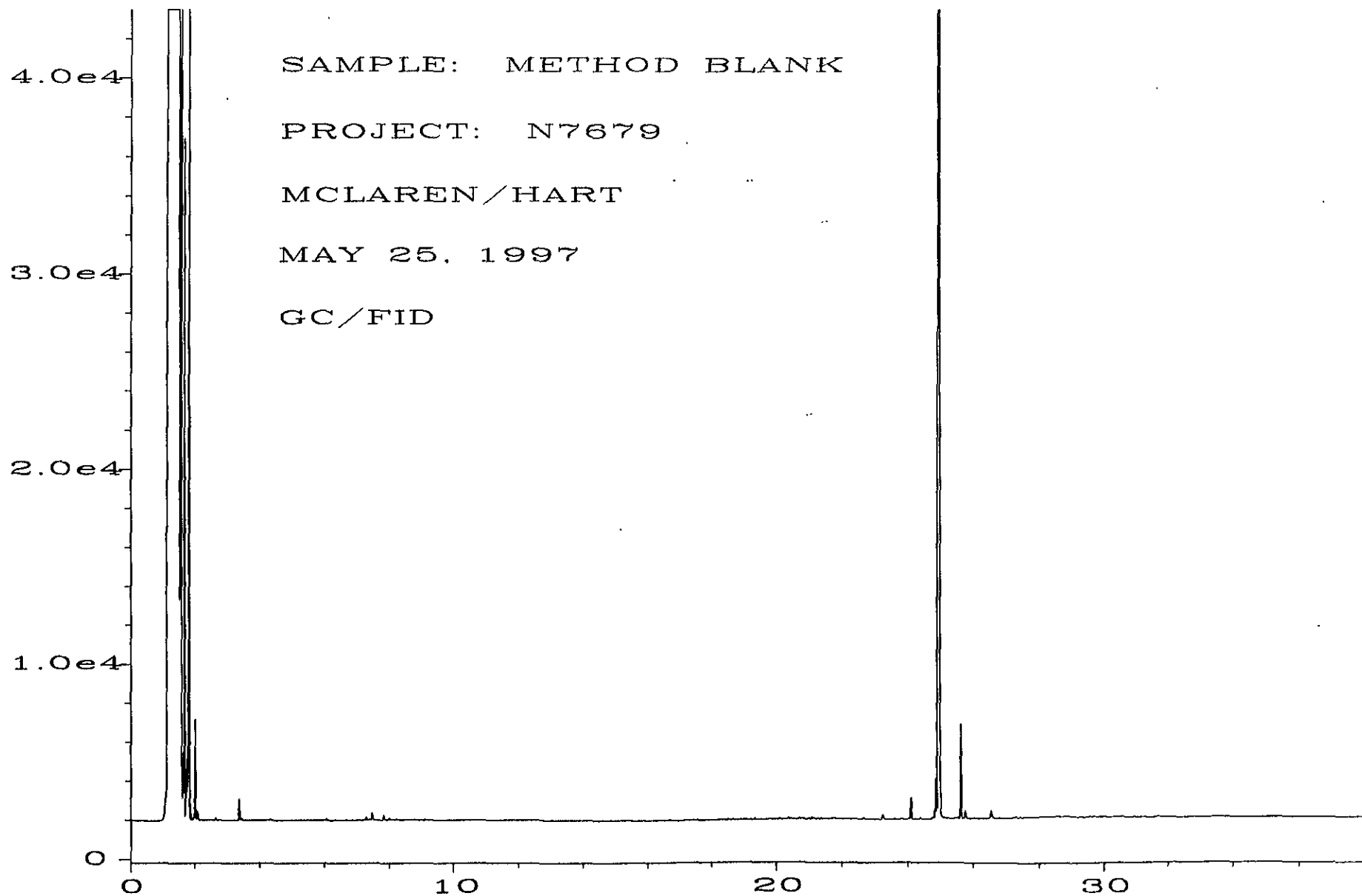


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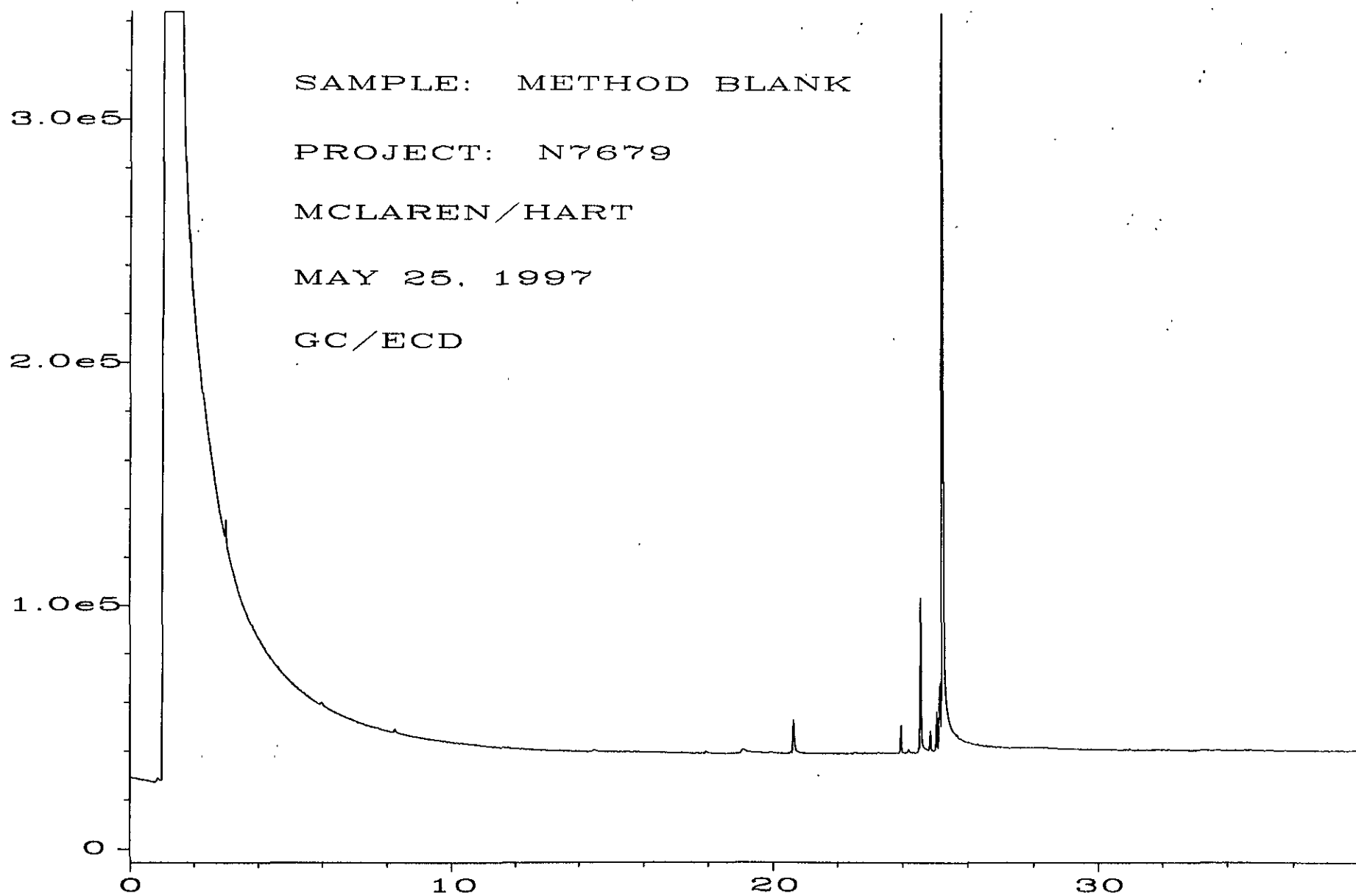


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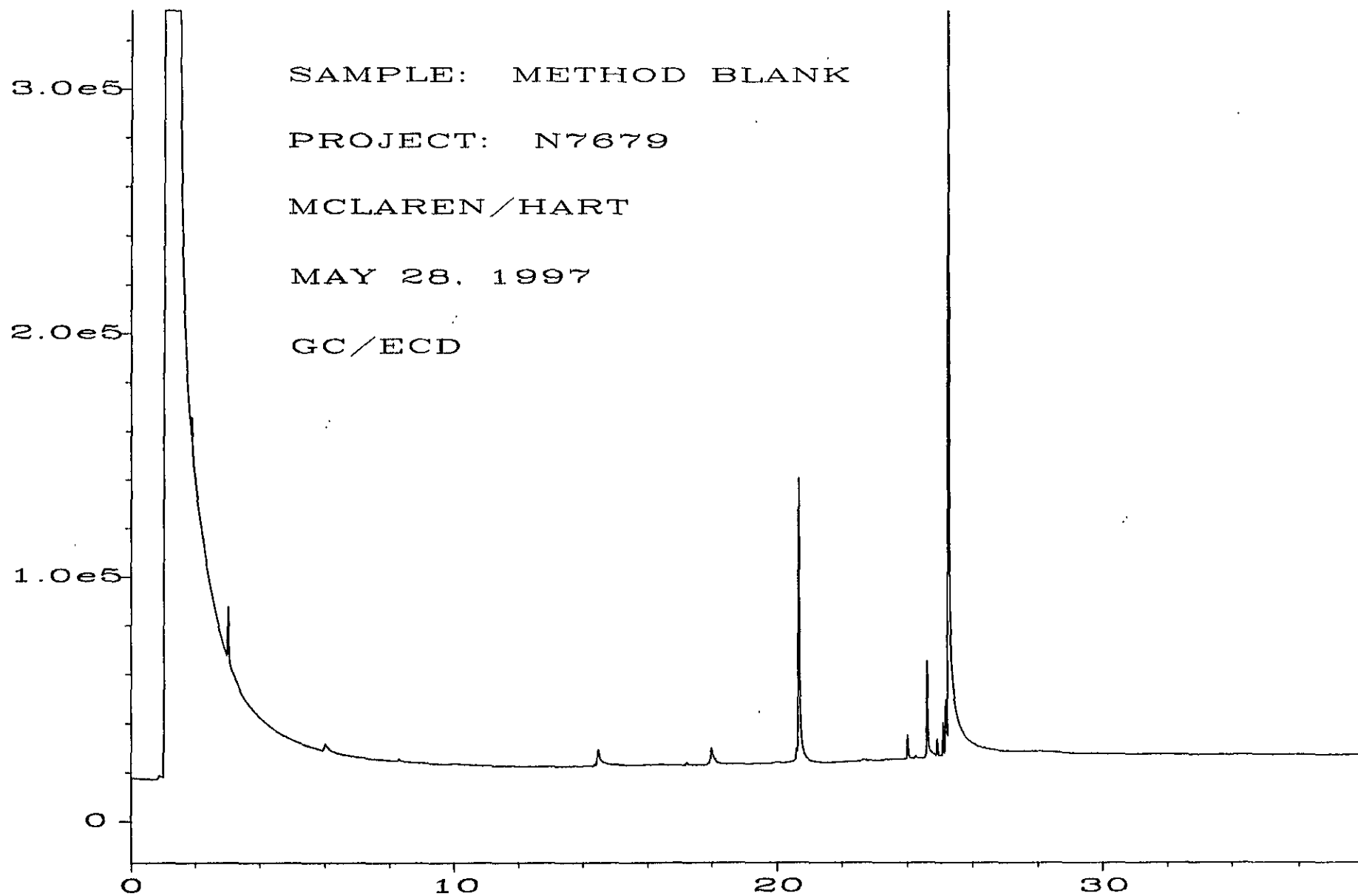


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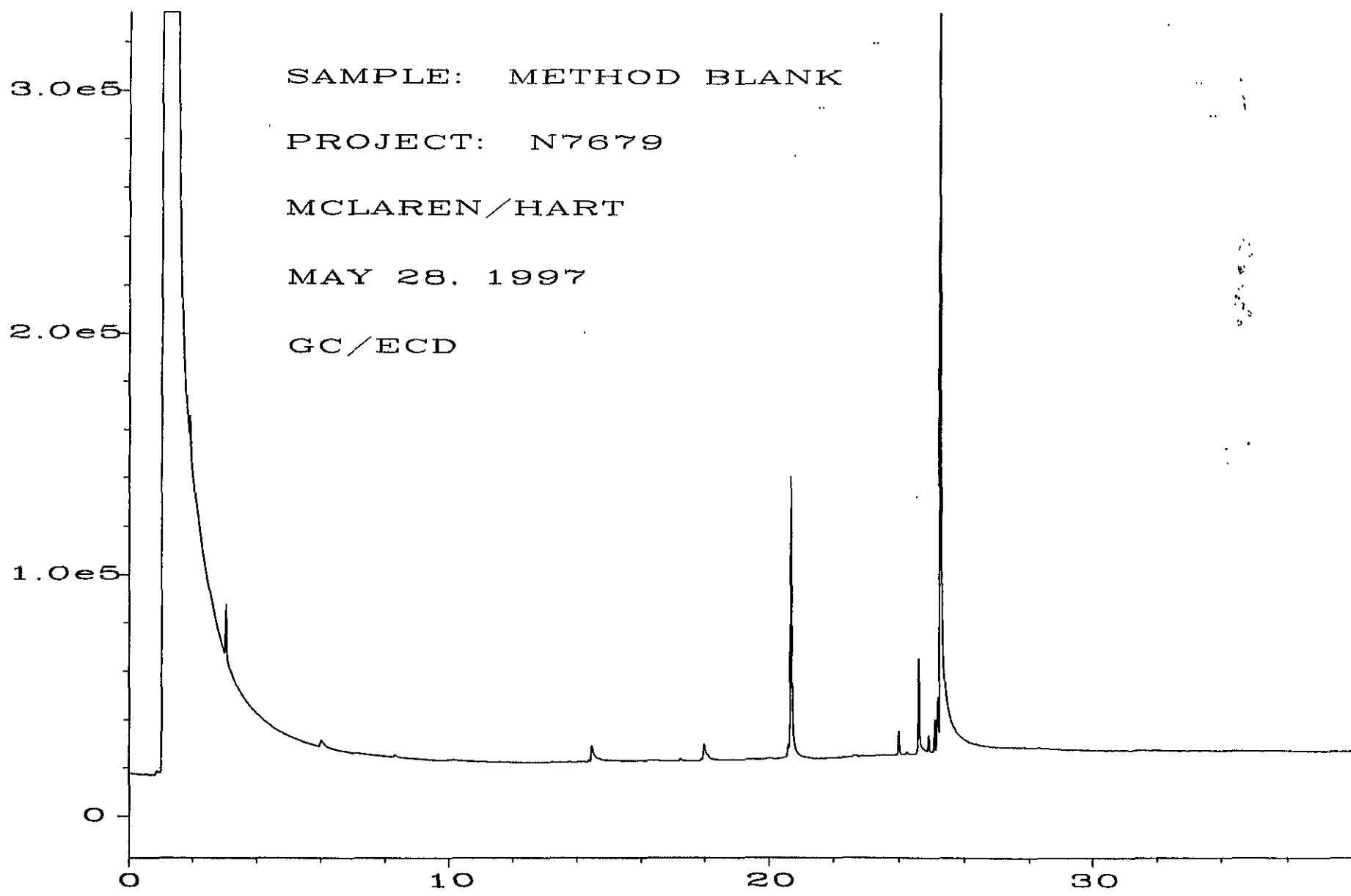


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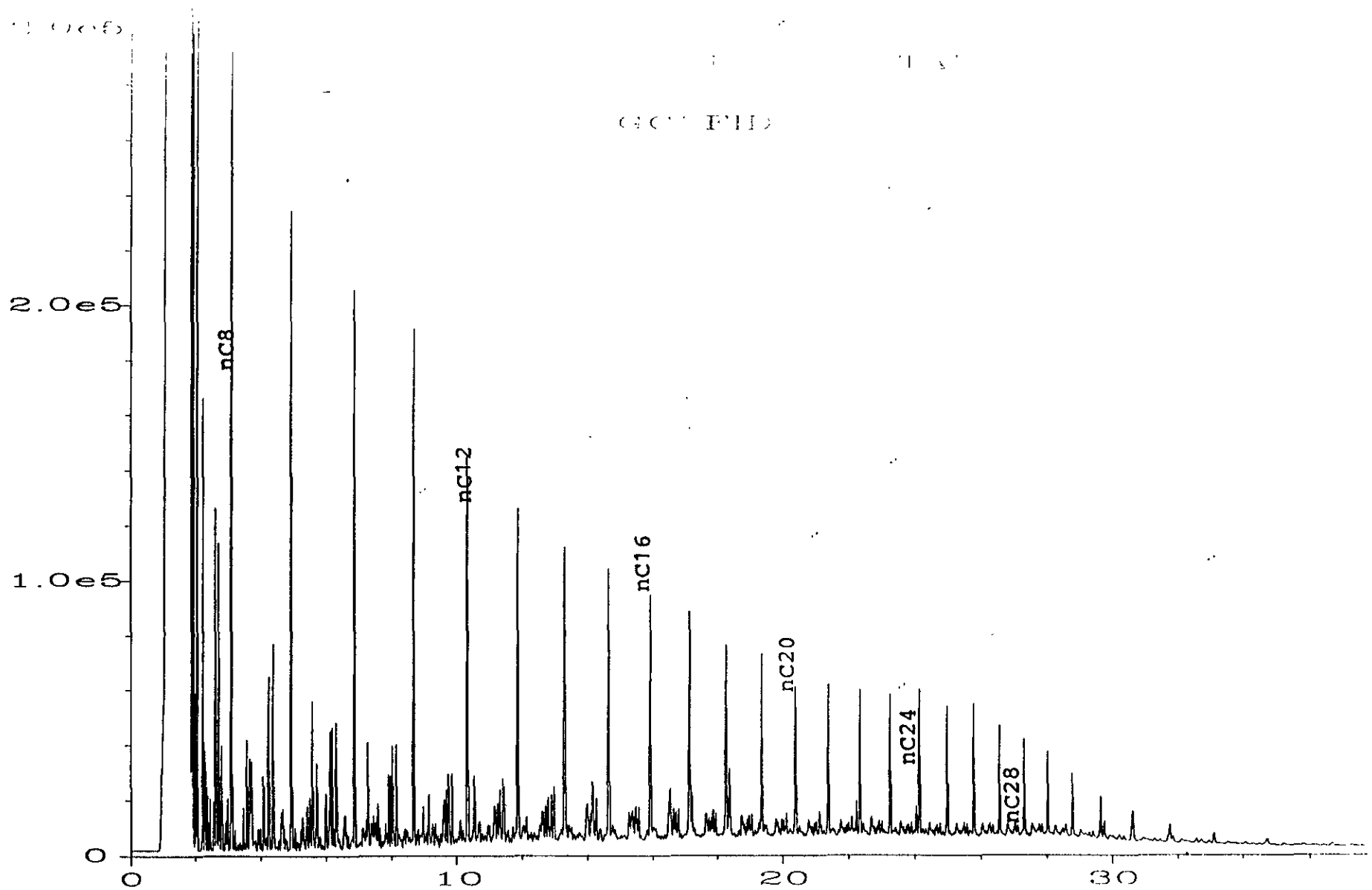


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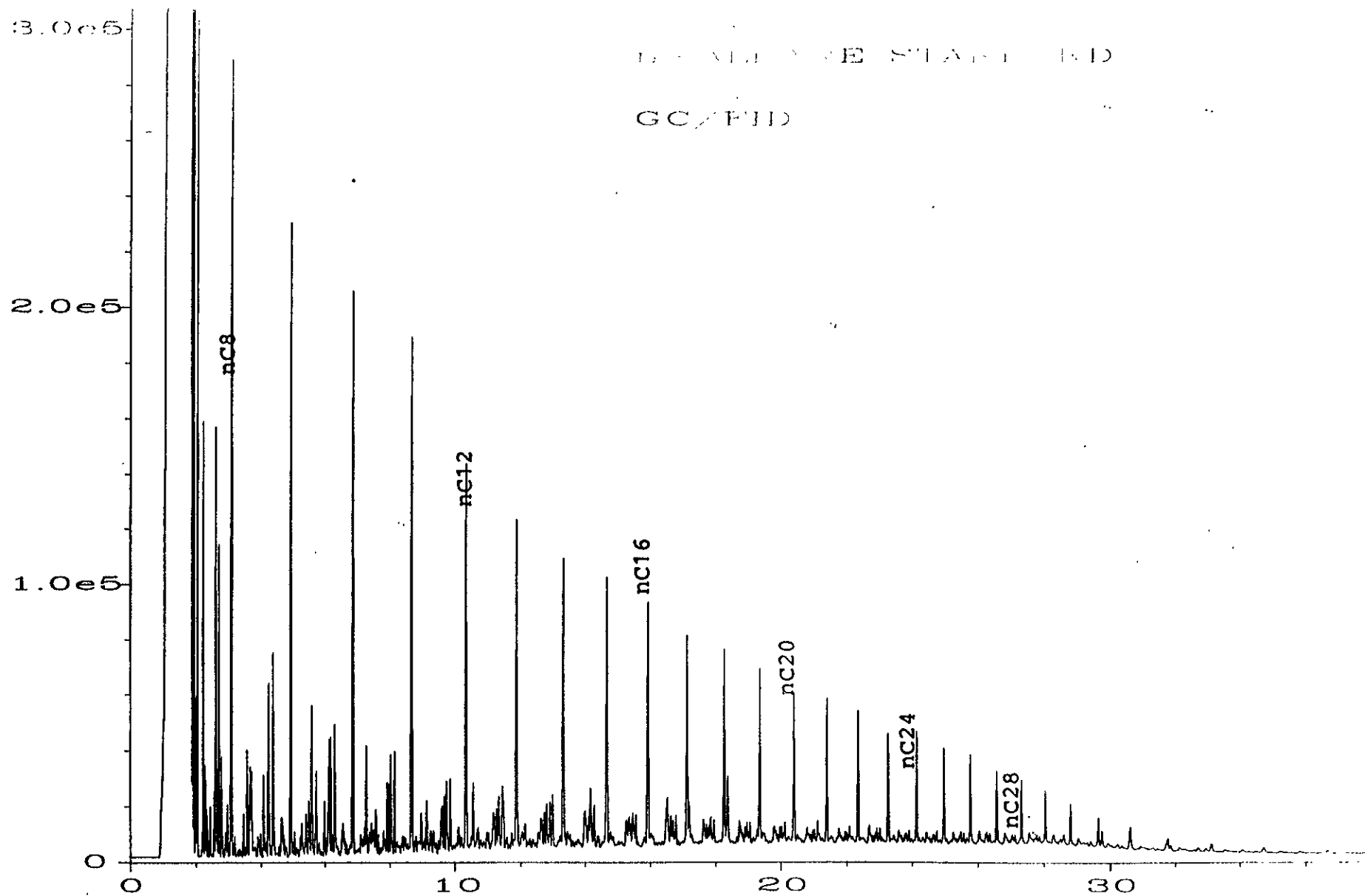


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SIERRA TESTING LABORATORIES
CERTIFIED ANALYTICAL REPORTS

0617TC1.RPT



Project No. 97-179
30 May 1997

CLS
3249 Fitzgerald Road
Rancho Cordova, California 95742

Attention: Mr. Ray Osowski

Subject: **CLS Project No. N7676**
LABORATORY TEST RESULTS

Dear Ray:

As requested, Sierra Testing Laboratories, Inc. has performed laboratory testing on nine undisturbed samples of material from the subject site. The samples were identified as 45869-MH5, 45871-MH5, 45874-MH5, 45876-MH8, 45878-MH8, 45880-MH8, 45882-MH1, 45884-MH1, and 45886-MH1. The samples were received by our laboratory on 23 May 1997. The test performed on the submitted samples was as follows:

- 1) Porosity by Phase Relation

The results of the Porosity determinations are presented on Table 1, attached.

We appreciate the opportunity to be of service to you on this project and look forward to providing additional service, as needed, in the future.

Should you have any questions or require additional information, please contact our office at your convenience.

Very truly yours,
Sierra Testing Laboratories, Inc.

Michael P. Walker
Project Manager

copies: 2 to CLS, Mr. Ray Osowski
enclosure: Table 1.

Table 1
CLS Project # N7676

Sample I.D.	Description	Specific Gravity	Dry Unit Weight (pcf)	Water Content (%)	Porosity (%)
45869 MH5	Brown clayey SAND with gravel	2.68	116.2	5.9	30.6
45871 MH5	Dark brown fine sandy CLAY	2.56	107.0	20.6	33.1
45874 MH5	Blue gray SILT	2.57	108.2	17.8	32.5
45876 MH8	Black sandy CLAY with gravel	2.51	105.2	19.4	32.9
45878 MH8	Blue gray clayey fine SAND	2.60	104.2	19.9	35.9
45880 MH8	Blue gray clayey fine SAND	2.57	107.7	21.0	33.00
45882 MH1	Dark gray gravelly SAND & Black sandy CLAY	2.57	111.8	10.6	30.3
45884 MH1	Gray brown sandy CLAY	2.56	111.1	17.3	30.5
45886 MH1	Yellow brown/ gray CLAY	2.52	108.1	21.5	31.3