

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

ALEX BRISCOE, Director



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

September 21, 2011

Ms. Olivia Skance
Chevron Environmental Management
6001 Bollinger Canyon Road
San Ramon, CA 94583-2324
(sent via electronic mail to
Olivia.Skance@chevron.com)

Mr. Denis Brown
Shell Oil Products US
20945 S Wilmington Ave
Carson, CA 90810-1039
(sent via electronic mail to
denis.l.brown@shell.com)

Ms Jennifer Sedlachek
Exxon Mobil
4096 Piedmont Ave #194
Oakland, CA 94611
(sent via electronic mail to
jennifer.c.sedlachek@exxonmobil.com)

Mr. Bradford Howard
Bradford Howard et al
516 Grand Avenue
Oakland, CA 94610-3515
(sent via electronic mail to
BHoward@howardtours.net)

Subject: Closure Transmittal; Fuel Leak Case No. RO0000391 (Global ID #T0600101355),
Chevron #21-1137, 500 Grand, Oakland, CA 94611

Dear Ms. Skance, Mr. Brown, Ms. Sedlachek, and Mr. Howard:

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

SITE INVESTIGATION AND CLEANUP SUMMARY

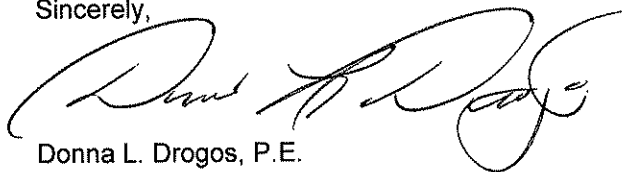
Please be advised that the following conditions exist at the site:

- Residual petroleum hydrocarbon pollution in soil, groundwater, and soil vapor remains in place at this site. The extent of removal excavations was limited to south by sidewalk and utilities, and to east by the foundation of the retaining wall; residually contaminated soil with elevated concentrations remains in place along those perimeters (in soil up to 3,800 mg/kg TPHg, up to 580 mg/kg TPHd, and up to 22 mg/kg benzene remain). The extent of elevated concentrations in soil extends at least to the location of well MW-8J in Grand Avenue. Residual concentrations do not appear to significantly impact groundwater; however, elevated soil vapor is present but does not appear to have a receptor as currently developed. Upon redevelopment this data and current conclusions are to be revisited.
- Case closure for this fuel leak site is granted for the commercial land use only. If a change in land use to any residential or other conservative land use scenario occurs at this site, ACEH must be notified as required by Government Code Section 65850.2.2. ACEH will re-evaluate the case upon receipt of approved development/construction plans.
- Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

- This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.

If you have any questions, please call Mark Detterman at (510) 567-6876. Thank you.

Sincerely,



Donna L. Drogos, P.E.
Division Chief

Enclosures: 1. Remedial Action Completion Certificate
 2. Case Closure Summary

cc: Ms. Cherie McCaulou (w/enc.), SF- Regional Water Quality Control Board, 1515 Clay Street,
 Suite 1400, Oakland, CA 94612, (sent via electronic mail to CMacaulou@waterboards.ca.gov)

 Leroy Griffin, Oakland Fire Department 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA
 94612-2032 (sent via electronic mail to lgriffin@oaklandnet.com)

 Donna Drogos, (sent via electronic mail to donna.drogos@acgov.org)

 Mark Detterman (sent via electronic mail to mark.detterman@acgov.org)

 Case eFile, GeoTracker



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REMEDIAL ACTION COMPLETION CERTIFICATE

Subject: Fuel Leak Case No. RO0000391 (Global ID #T0600101355), Chevron #21-1137, 500 Grand, Oakland, CA 94611

Dear Ms. Skance, Mr. Brown, Ms. Sedlachek, and Mr. Howard:

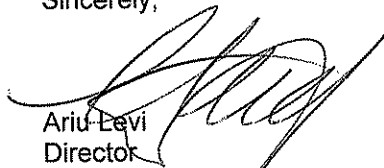
This letter confirms the completion of a site investigation and remedial action for the underground storage tank formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the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

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code.

Please contact our office if you have any questions regarding this matter.

Sincerely,


Ariu Levi
Director
Alameda County Environmental Health

**CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM**

I. AGENCY INFORMATION

Date: March 3, 2011

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567- 6876
Responsible Staff Person: Mark Detterman	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Chevron #21-1173 / Exxon #7-0237		
Site Facility Address: 500 Grand Avenue, Oakland, CA 94611		
RB Case No.: 01-1467	Local Case No.: STID: 1109	LOP Case No.: RO0000391
URF Filing Date: 2/3/1989	Geotracker ID: T0600101355	APN: 10-780-15-8
Responsible Parties	Addresses	Phone Numbers
Ms. Staci Frerichs	Chevron Environmental Management 6001 Bollinger Canyon Road, Rm 3596 PO Box 6012 San Ramon, CA 94583-2324	925.543.2377
Mr. Denis Brown	Shell Oil Products US 20945 S. Wilmington Ave Caron, CA 90810-1039	707.865.0251
Ms. Jennifer Sedlachek	Exxon Mobil 4096 Piedmont Avenue # 194 Oakland, CA 94611	510.547.8196
Mr. Brandford Howard	Branford Howard et al 516 Grand Avenue Oakland, CA 94610-3515	Unknown

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	10,000	Gasoline	Removed	April 14, 1992
2	10,000	Gasoline	Removed	April 14, 1992
3	10,000	Gasoline	Removed	April 14, 1992
4	550	Waste Oil	Removed	September 25, 1990
Piping			Removed	April 14, 1992

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. Waste oil tank reported intact at time of removal by inspector. No notes included in gasoline tank removal report or inspector notes.		
Site characterization complete? Yes	Date Approved By Oversight Agency: ----	
Monitoring wells installed? Yes	Number: 12	Proper screened interval? Yes*
Highest GW Depth Below Ground Surface: At ground surface / 5.43 **	Lowest Depth: 11.38 / 13.32 **	Flow Direction: Southwest
Most Sensitive Current Use: Potential drinking water source.		

* In general onsite wells MW-8K & MW-8L were submerged; offsite wells were generally appropriately screened. Previously decommissioned onsite wells MW-8A to MW-8E were not included in this analysis.

** Onsite well / Offsite well

Summary of Production Wells in Vicinity:	
There are no water supply wells within ¼-mile of the site. The closest water supply wells are located to the west in a cross- to upgradient direction at an approximate distance of 3,500 feet (0.66 miles). These two wells (1S4W26R3 & 1S4W35A2) are not expected to be receptors for this site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: Lake Merritt; 200 - 250 feet south
Off-Site Beneficial Use Impacts (Addresses/Locations): None Reported	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and City of Oakland Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	One: 550-gallon (Waste Oil) Three: 10,000-gallon (Gas)	Assumed Disposed; Destination Unreported	Unknown
Piping	Unknown	Assumed Disposed; Destination Unreported	Unknown
Free Product	Used oil; unknown	Disposed with groundwater; batch extraction	Fall 1990
Soil	Used oil UST Removal	Assumed Disposed; Destination unreported	1990
	Gasoline UST Removal	540 cubic yards; pea gravel; BFI Class III Landfill, Livermore, CA	May 1992
	Station Overexcavation: May 1992 January 1993	1,100 cubic yards; Destination unreported 828 cubic yards; Redwood Landfill, Novato	Mid 1992 February 1993
Groundwater	5,000 gallons	Destination unreported	December 1989
	5,000 gallons	Destination unreported	June 1990
	25,000 gallons	Destination unreported	April 1992
	5,000 gallons	Destination unreported	Mid 1992
	6,300 gallons	Gibson Environmental, Redwood City	January 1993

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
(Please see Attachments 1 through 6 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	3,800 ¹	3,800	56,000	53
TPH (Diesel)	580	580	31,000 ²	92
TPH (Motor Oil)	330	ND	100,000 ²	<500
Oil and Grease	6,900	<330	NA	NA
Benzene	7,700	22 ¹	20,000	2
Toluene	28	28	6,200	<0.5
Ethylbenzene	30	30	1,100	<0.5
Xylenes	100	100	4,900	<0.5
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	48 ³	48 ³	NA	NA
MTBE (EPA 8260) ⁴	<0.0005	<0.0005	4	1
Chlorinated Hydrocarbons (EPA 8010) Semi-Volatile Organics (EPA 8270)	<0.005 ⁵ ⁶	<0.005 ND (various)	<1 NA	<1 NA

NA Not analyzed

¹ South sidewall adjacent to sidewalk / street (Grand Avenue)

² Pit grab groundwater samples

³ B-13 @ 2.5 feet bgs: <0.05 Cd ppm; 26 ppm Cr; <0.05 Pb ppm; 41 ppm Zn; <0.5 ppm Cd; 48 ppm Cr; 4.4 ppm Pb; 65 ppm Ni; 61 ppm Zn collected on a remedial excavation stockpile.

⁴ MTBE only; TBA, TAME, ETBE, DIPE, EtOH, EDB, and EDC all not analyzed.

⁵ Exception: TCE 0.06 ppm

⁶ B-13 @ 2.5 feet bgs: 0.90 ppm naphthalene; 1.40 ppm 2 Methyl naphthalene; 0.260 ppm Bis (2-ethylhexyl) phthalate

Site History and Description of Corrective Actions:

May 1988 Sensitive Receptor Survey: In May 1988, HLA performed a sensitive receptor survey of the site vicinity. The survey indicated there were no public water supply wells within 2,500 feet of the site, no private water supply wells within 1,000 feet of the site, and no schools within 1,000 feet of the site.

June 1988 Well Installations: In June 1988, HLA installed four groundwater monitoring wells (MW-8A through MW-8D) at the site to depths of 15.5, 20, 24.5, and 5 feet below grade surface (bgs), respectively. Well MW-8D was designed to intercept perched water just below the ground surface. An additional boring (B-8A) was also drilled to 32 feet bgs that was supposed to be the location of well MW-8A; however, the boring extended through two water-bearing zones (clayey sand at 12 and 23 feet bgs and thus was decommissioned. Well MW-8A was placed adjacent to boring B-8A and constructed to intercept water in the upper water-bearing zone. A soil sample was collected at approximately 1.3 feet bgs from boring MW-8D and analyzed for total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX); TPHg, toluene, and xylenes were detected at concentrations of 10, 0.4, and 0.5 milligrams per kilogram (mg/kg), respectively. The initial groundwater samples collected from wells MW-8A, MW-8B, and MW-8C were analyzed for BTEX; well MW-8D was dry. Benzene (5.3 micrograms per liter [µg/L]) was only detected in well MW-8A. Concentrations of toluene, ethylbenzene, and xylenes (up to 13 µg/L) were detected in wells MW-8A and MW-8C. The results of the investigation were presented in HLA's *Subsurface Investigation* report dated July 20, 1988.

September 1988 Soil Gas Survey: In September 1988, HLA conducted a soil gas survey both on and offsite. A

total of 17 soil gas samples were collected from 16 locations at depths ranging from 2 to 6 feet bgs and analyzed for total hydrocarbons and BTEX using a gas chromatograph equipped with a flame ionization detector (FID). Elevated concentrations of total hydrocarbons (up to 360,000 µg/L) and benzene (up to 86,000 µg/L) were detected in two of the samples (SG-04 and SG-05) collected on the west side of the site. Elevated concentrations of total hydrocarbons (up to 1,400,000 µg/L) and benzene (up to 300,000 µg/L) were also detected in two of the samples (SG-12 and SG-15) collected to the south-southwest of the site. Groundwater samples collected from four observation wells (OB-1 through OB-4) located within the gasoline UST pit were also analyzed for total hydrocarbons and BTEX; total hydrocarbons (up to 32,000 µg/L) and benzene (up to 7,700 µg/L) were detected in all four of the samples. The results of the investigation were presented in HLA's *Quarterly Technical Report-First Quarter of 1989* dated May 31, 1989 and *Environmental Assessment Report* dated September 22, 1989.

October 1988 Subsurface Investigation and Well Installation: In October 1988, HLA drilled four exploratory borings (B-1 through B-4) to depths of 8 to 16.5 feet bgs in the vicinity of the gasoline USTs and dispensers. Well MW-8E was also installed adjacent to boring B-3. One soil sample was collected from borings B-1, B-3, B-4, and MW-8E (depths ranging from 3.5 to 6.5 feet bgs) and analyzed for TPHg and BTEX. TPHg (up to 750 mg/kg) was detected in several of the samples; concentrations of toluene, ethylbenzene, and xylenes (up to 26 mg/kg) were also detected. Benzene was only detected in the soil sample collected at 5.5 feet bgs from boring MW-8E (0.82 mg/kg). The initial groundwater sample collected from well MW-8E contained benzene at 1,400 µg/L. The results of the investigation were presented in HLA's *Quarterly Technical Report-First Quarter of 1989* dated May 31, 1989 and *Environmental Assessment Report* dated September 22, 1989.

March 1989 Subsurface Investigation, Well Destruction and Installations: In March 1989, HLA drilled an additional boring (B-5) on the west side of the site in the area where elevated hydrocarbon concentrations were previously detected in soil gas. Soil samples were collected from the boring at depths of 5.5, 10.5, and 16 feet bgs and analyzed for TPHg and BTEX, which were not detected. Well MW-8D was also decommissioned at this time due to a lack of water. Two offsite monitoring wells (MW-8F and MW-8G) were installed to 16.5 feet bgs across Grand Avenue to the south-southeast of the site. Soil samples were collected from boring MW-8F at 11 feet bgs and from boring MW-8G at 6 feet bgs and analyzed for TPHg and BTEX, which were not detected. BTEX were not detected in the initial groundwater samples collected from the wells. The results of the investigation were presented in HLA's *Quarterly Technical Report-First Quarter of 1989* dated May 31, 1989 and *Environmental Assessment Report* dated September 22, 1989.

Fourth Quarter 1989 Subsurface Investigation and Interim Remediation: During fourth quarter 1989, HLA drilled four additional onsite borings (B-6 through B-9) to depths of 3.5 to 5.5 feet bgs. A total of five soil samples were collected at various depths (ranging from 2 to 4.5 feet bgs) from the borings and analyzed for TPHg, BTEX, and TPH as diesel (TPHd). TPHg (up to 580 mg/kg) was only detected in the soil samples collected from borings B-7, B-8, and B-9; concentrations of one or more BTEX compounds (up to 50 mg/kg) were also detected. TPHd was only detected in the soil sample collected at 2.5 feet bgs from boring B-9 (460 mg/kg). Observation wells OB-3 and OB-4 were also re-sampled and elevated concentrations of TPHg (4,000 µg/L) and benzene (up to 500 µg/L) were detected. In December 1989, approximately 5,000 gallons of groundwater were pumped from the gasoline UST pit and disposed offsite as an interim remedial measure. This work was documented in HLA's *Quarterly Technical Report-Fourth Quarter of 1989* dated March 21, 1990.

First Quarter 1990 Subsurface Investigation and Well Installations: During first quarter 1990, HLA drilled seven additional borings. Four soil bores B-8K [offsite], and B-10 through B-12 [onsite] were installed to depths of 6 to 9.5 feet bgs. A total of 15 soil samples were collected at various depths (ranging from 1 to 8.5 feet bgs) from the borings and analyzed for TPHg, BTEX, and TPHd. Concentrations of TPHg (up to 84 mg/kg) and BTEX (up to 5.4 mg/kg) were detected in several of the soil samples. Elevated concentrations of TPHg were detected in the soil samples collected at 1.5 feet bgs from boring B-11 (2,900 mg/kg) and at 4.5 feet bgs from boring B-12 (1,200 mg/kg). TPHd (up to 94 mg/kg) was only detected in three of the samples. Three offsite monitoring wells (MW-8H, MW-8I, and MW-8J) were also installed. Four soil samples were collected at various depths from each well boring and analyzed for TPHg, BTEX, and TPHd. TPHg (up to 550 mg/kg) was detected in the majority of the soil samples. An elevated concentration of TPHg (2,100 mg/kg) was detected in the sample collected at 5.5 feet bgs from boring MW-8J. Concentrations of benzene and toluene were non-detectable in the sample from 5.5 feet, but ethylbenzene was present at 25 mg/kg in the sample. TPHd (up to 83 mg/kg) was only detected in three of the samples. TPHg was detected in the initial groundwater samples collected from wells MW-8H and MW-8I (460 µg/L and 580 µg/L, respectively). Benzene was detected in wells MW-8H, MW-8I, and MW-8J at 14.8 µg/L, 116 µg/L, and 2.7 µg/L, respectively. TPHd was only detected in well MW-8I (440 µg/L). This work was documented in HLA's *Quarterly Technical Report-First Quarter of 1990* dated June 13, 1990.

Second Quarter 1990 Subsurface Investigation: During second quarter 1990, HLA drilled two additional borings (B-13 and B-14) to depths of 4 and 4.5 feet bgs, respectively. The borings were located near the station building; boring B-14 was located adjacent to the waste oil UST. A total of five soil samples were collected at various depths from the borings and analyzed for TPHg, BTEX, TPHd, and TPH "other" (heavier-end hydrocarbons). The soil sample collected from boring B-13 at 2.5 feet bgs was also analyzed for halogenated volatile organic compounds (HVOCs), semi-VOCs, total oil and grease (TOG), and the metals cadmium, chromium, lead, and zinc. TPHg (up to 130 mg/kg) was detected in the majority of the soil samples. Concentrations of toluene, ethylbenzene, and xylenes (up to 5.4 mg/kg) were detected in a few of the samples. TPHd and benzene were not detected in any of the samples. Heavier-end petroleum hydrocarbons (constituents unknown) were detected in four of the samples at concentrations ranging from 62 to 1,000 mg/kg (B-13 at 2.5 feet bgs). The sample collected from boring B-13 at 2.5 feet bgs also contained the semi-VOCs naphthalene (0.9 mg/kg), 2-methylnaphthalene (1.4 mg/kg), and bis(2-ethylhexyl)phthalate (0.26 mg/kg); HVOCs were not detected with the exception of trichloroethane at 0.06 mg/kg; TOG was detected at 5,600 mg/kg; and the metals chromium and zinc were detected at 36 mg/kg and 41 mg/kg, respectively. In June 1990, during work on the waste oil UST, a layer of light non-aqueous phase liquid (LNAPL) was observed on the water in the backfill surrounding the tank. Exxon reportedly had the fluid in the excavation pumped out several times. This work was documented in HLA's *Quarterly Technical Report-Second Quarter of 1990* dated August 30, 1990.

September-October 1990 Waste Oil-UST Removal and Over-Excavation: In September 1990, the 500-gallon, single-walled fiberglass waste oil UST was removed from the site. No apparent holes or cracks were observed in the tank. The excavation was approximately 7.5 feet by 9.5 feet by 8 feet deep. Approximately 1/8 inch of LNAPL was observed on the water in the excavation. A water sample (WOT #1) was collected prior to pumping the water out of the excavation; the sample contained TPHg at 1,900 µg/L, TPHd at 1,400 µg/L, benzene at 320 µg/L, and TOG at 70 µg/L; HVOCs were not detected. Four soil samples (WO#2 through WO#5) were collected at 1.5 feet bgs from the sidewalls of the excavation and analyzed for TPHg, BTEX, TPHd, TOG, and HVOCs. Concentrations of TPHg (up to 15 mg/kg), TPHd (up to 20 mg/kg), and BTEX (benzene up to 0.054 mg/kg, ethylbenzene up to 0.75 mg/kg, and xylenes up to 1.5 mg/kg) were detected in several of the samples. TOG was detected in all four of the samples at concentrations ranging from 100 to 2,600 mg/kg. HVOCs were not detected in any of the samples.

In October 1990, over-excavation of impacted soil was conducted in the area of the soil sample with the highest TOG concentration (WO#3; western sidewall). The upper 3 feet of this sidewall was excavated laterally to the west an additional 3 feet. Additional soil samples were collected at 1.5 (WO#7) and 2 feet bgs (WO#6) from the new western sidewall, and from the bottom of the original excavation on the south side (WO#8). Samples WO#6 and WO#7 contained TOG at 100 mg/kg and 850 mg/kg, respectively. Sample WO#8 was analyzed for TPHg, BTEX, TPHd, and TOG; which were not detected except toluene at 0.016 mg/kg. Two clay pipes were encountered at approximately 1.5 feet bgs in the northwest and northeast corners of the excavation. The excavation was backfilled several days later. This work was documented in HLA's *Soil and Groundwater Sampling During Waste Oil Tank Removal* dated November 8, 1990.

January 1991 Clay Pipe Excavation: In January 1991, the clay pipes were removed. The excavation trench was located on the western side of the former waste oil UST and was approximately 15 feet long, 2.5 feet wide, and 4.5 feet deep. Two water samples (EP-01 and WP-01) were collected from the trench and analyzed for TPHg, TPHd, BTEX, and TPH as motor oil (TPHmo). TPHg (5,200 µg/L and 3,900 µg/L), TPHd (31,000 µg/L and 13,000 µg/L), benzene (280 µg/L and 320 µg/L), and TPHmo (100,000 µg/L and 17,000 µg/L) were detected in both samples. The water sample collected nearest the former UST contained the higher TPH concentrations. Four soil samples were also collected from the sidewalls and bottom of the trench (depths ranging from 1.5 to 4.5 feet bgs) and analyzed for TPHg, BTEX, TOG, and TPHd; three of the samples were also analyzed for TPHmo and HVOCs. Concentrations of TPHg (up to 100 mg/kg), TPHd (up to 190 mg/kg), and BTEX (up to 0.63 mg/kg) were detected in several of the samples. TOG was detected in all four of the samples at concentrations up to 630 mg/kg. TPHmo was detected in the three soil samples analyzed at concentrations up to 330 mg/kg. HVOCs were not detected in the three soil samples analyzed. A small excavation was also made on the east side of the UST excavation and an additional soil sample was collected at 1.5 feet bgs; this sample contained TPHg (1.1 mg/kg), TPHd (110 mg/kg), and TOG (780 mg/kg); BTEX were not detected. The excavation trench was continued to the door of the first service bay. An unknown volume of water was removed from the trench. This work was documented in HLA's *Results of Pipe Excavation and Recent Groundwater Analyses* dated February 12, 1991.

April - May 1992 Station Demolition, Gasoline UST Removal, and Overexcavation: In April 1992, the station was demolished and three 10,000-gallon, fiberglass gasoline USTs, two dispenser islands, and associated piping were removed from the site. No cracks or holes were observed in any of the tanks. During tank removal activities, approximately 25,000 gallons of impacted groundwater was pumped from the excavation and disposed offsite. Nine confirmation soil samples were collected from the bottom (10 feet bgs) and sidewalls (5 feet bgs) of the UST

excavation and analyzed for TPHg and BTEX. Concentrations of TPHg (up to 130 mg/kg) and BTEX (benzene up to 0.2 mg/kg, ethylbenzene up to 0.17 mg/kg, and xylenes up to 1.4 mg/kg) were detected in several of the samples. Three soil samples were also collected beneath the dispensers and one soil sample was collected beneath the product piping at depths of 5 or 6 feet bgs and analyzed for TPHg, BTEX, and TOG. TPHg and benzene were detected in the four samples at concentrations ranging from 7.8 to 2,100 mg/kg and 0.019 to 11 mg/kg, respectively. TOG was also detected in the four samples at concentrations ranging from 30 to 6,900 mg/kg. Approximately 540 cubic yards of impacted pea gravel was disposed offsite. Clean, imported fill material was then used to backfill the excavation. This work was documented in HLA's *Underground Storage Tank Removal* report dated June 8, 1992.

In May 1992, additional excavation was performed in the area of the former dispenser islands. The excavation was approximately 55 feet wide, 60 feet long, and 7 to 9 feet deep. Nine soil samples (BE-1, BE-2, and BE-4 through BE-10) were collected from the bottom of the excavation at depths of 4.5 to 9 feet bgs and analyzed for TPHg and BTEX. TPHg was only detected in one of the samples (1.1 mg/kg), and toluene, ethylbenzene, and xylenes generally were not detected in any of the samples with the exception of ethylbenzene in one sample (0.058 mg/kg). Concentrations of benzene (up to 0.043 mg/kg) were detected in several of the samples. Four soil samples (WS-2 through WS-5) were also collected at depths of 5 or 7.5 feet bgs from the western and southern sidewalls of the excavation. TPHg and BTEX were not detected in the sample (WS-3) collected from the western sidewall. TPHg (ranging from 72 to 1,000 mg/kg) and BTEX (benzene ranging from 1.1 to 22 mg/kg) were detected in the three samples collected from the southern sidewall. The excavation could not be extended further to the south without undermining the Grand Avenue sidewalk. A small area was also excavated under a former service bay near a former hydraulic hoist and sump. Soil samples were collected from the bottom (BE-3 at 4 feet bgs) and the western sidewall (WS-1 at 3 feet bgs) of this excavation; TPHg and BTEX were not detected in either of the samples. Approximately 1,100 cubic yards of soil were removed and disposed offsite. Clean, imported fill material was then used to backfill the excavations. This work was documented in HLA's *Quarterly Technical Report-Second Quarter of 1992* dated September 10, 1992.

August 1992 Well Destructions: In August 1992, onsite wells MW-8A and MW-8E were decommissioned by over-drilling. This work was documented in a HLA *Well Destruction Reports* letter dated August 14, 1992.

January 1993 Additional Over-Excavation: In January 1993, Converse Environmental West (Converse) supervised the removal of additional soil from the northern portion of the site. Ten soil samples (B-1 through B-10) were collected from the bottom of the excavation, and seven soil samples (SW-1 through SW-7) were collected from the western, northern, and eastern sidewalls of the excavation and analyzed for TPHg and BTEX; which were not detected in any of the soil samples. Approximately 828 cubic yards of impacted soil were removed, and approximately 6,300 gallons of water were pumped from the excavation and disposed offsite during the work. Clean, imported fill was used to backfill the excavation. This work was documented in Converse's *Soil Excavation and Soil Sampling Report* dated March 26, 1993.

April 1993 Well Destructions: In April 1993, onsite wells MW-8B and MW-8C were decommissioned by over-drilling. This work was documented in a letter by Pacific Environmental Group, Inc. (PEG) dated May 6, 1993.

May 1993 Well Installations: In May 1993, PEG installed two wells onsite (MW-8K and MW-8L) to 18 feet bgs. Well MW-8K was installed adjacent to former well MW-8E which historically contained the highest concentrations. No soil samples were collected for laboratory analysis from the well borings; however, organic vapor concentrations greater than 100 parts per million by volume (ppmv) were not observed. This work was documented in PEG's untitled letter report dated July 30, 1993.

1996-2000 Groundwater Oxygenation: In December 1996, socks containing ORC were placed in wells MW-8F, MW-8G, and MW-8I in an attempt to enhance biodegradation of petroleum hydrocarbons in groundwater. The socks were periodically replaced and were permanently removed from the wells in March 2000.

2001 Well Survey: In early 2001, KHM requested information from the Alameda County Public Works Agency (ACPWA) regarding the presence of wells within ½ mile of the site. No wells were identified within the search radius and no visual evidence of wells was observed within 1,000 feet of the site. The two nearest water supply wells identified were irrigation wells located approximately 3,500 feet west (crossgradient) and southwest (crossgradient) of the site.

November 2006 Subsurface Investigation: In November 2006, Cambria Environmental Technology, Inc. (Cambria [now CRA]) advanced borings S-1 through S-3 to approximately 4 feet bgs along the southern edge of the site. Boring S-3 was advanced into the excavation backfill. A soil sample was collected from each boring at 4 feet bgs and analyzed for TPHg, BTEX, TPHd, and TOG. TPHg was detected in the soil samples collected from borings S-1 and S-2 at concentrations of 390 mg/kg and 3,800 mg/kg, respectively. Benzene was only detected in the soil

sample collected from boring S-2 (0.41 mg/kg) immediately adjacent to the Grand Avenue sidewalk. Toluene, ethylbenzene, and xylenes (up to 170 mg/kg) were also detected in the soil samples collected from borings S-1 and S-2. TPHd was detected in the soil samples collected from borings S-1, S-2, and S-3 at 15 mg/kg, 580 mg/kg, and 11 mg/kg, respectively. TOG was not detected in any of the soil samples.

Soil vapor samples (SV-1 and SV-2) were also collected adjacent to the borings and analyzed for TPHg and BTEX. An additional sample (SV-3) was not analyzed due to inadequate sample volume. TPHg was detected in samples SV-1 and SV-2 at concentrations of 60,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) and $2 \times 10^6 \mu\text{g}/\text{m}^3$, respectively. Benzene was detected in samples SV-1 and SV-2 at concentrations of $3,400 \mu\text{g}/\text{m}^3$ and $34,000 \mu\text{g}/\text{m}^3$, respectively. Toluene ($330 \mu\text{g}/\text{m}^3$ and $160,000 \mu\text{g}/\text{m}^3$, respectively), ethylbenzene ($2,600 \mu\text{g}/\text{m}^3$ and $64,000 \mu\text{g}/\text{m}^3$, respectively), and xylenes ($380 \mu\text{g}/\text{m}^3$ and $280,000 \mu\text{g}/\text{m}^3$, respectively) were also detected in samples SV-1 and SV-2. A field duplicate sample collected from SV-2 contained lower concentrations of TPHg ($720,000 \mu\text{g}/\text{m}^3$), benzene ($14,000 \mu\text{g}/\text{m}^3$), toluene ($69,000 \mu\text{g}/\text{m}^3$), ethylbenzene ($27,000 \mu\text{g}/\text{m}^3$), and xylenes ($110,000 \mu\text{g}/\text{m}^3$). This work was documented in Cambria's *Subsurface Investigation Report* dated February 28, 2007.

March 2008 Subsurface Investigation: In March 2008, CRA advanced five borings (SV-4 through SV-8) to depths of 3 to 6 feet bgs along the southern and eastern sides of the site. Groundwater was encountered in the borings at depths of 2 to 6 feet bgs. Borings SV-4 through SV-6 were advanced into the excavation backfill. One or two soil samples were collected at depths of 2 or 5 feet bgs from borings SV-5, SV-7, and SV-8 and analyzed for TPHg, BTEX, and methyl tertiary butyl ether (MTBE). TPHg was detected in the soil samples collected at 2 feet bgs (16 mg/kg) and 5 feet bgs (1,400 mg/kg) from boring SV-7; BTEX (benzene up to 0.11 mg/kg, ethylbenzene up to 15, and xylenes up to 19 mg/kg) were also detected in these two samples. MTBE was not detected in any of the soil samples. A grab groundwater sample was also collected from each of the five borings and analyzed for TPHg, BTEX, and MTBE. TPHg ($6,200 \mu\text{g}/\text{L}$) and benzene ($200 \mu\text{g}/\text{L}$) were detected in the groundwater sample collected from boring SV-7 in close proximity to the retaining wall on the east side of the site. Concentrations of MTBE were detected in the groundwater samples collected from borings SV-4 ($1 \mu\text{g}/\text{L}$), SV-7 ($0.7 \mu\text{g}/\text{L}$), and SV-8 ($2 \mu\text{g}/\text{L}$). The borings were intended to be completed as soil vapor wells; however, due to the shallow groundwater encountered, the wells were not installed. This work was documented in CRA's *Subsurface Investigation Report* dated August 14, 2008.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
<p>Site Management Requirements:</p> <p>Case closure for this fuel leak site is granted for the commercial land use only. If a change in land use to any residential or other conservative land use scenario occurs at this site, ACEH must be notified as required by Government Code Section 65850.2.2. ACEH will re-evaluate the case upon receipt of approved development/construction plans.</p> <p>Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.</p> <p>This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.</p>		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? No		Date Recorded: ----
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 6
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		


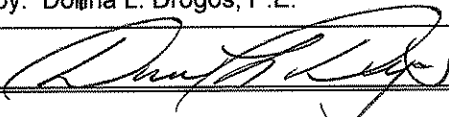
V. ADDITIONAL COMMENTS, DATA, ETC.

<p>Considerations and/or Variances:</p> <ul style="list-style-type: none"> • Disposal destinations for all USTs, piping, soil, limited free phase, and groundwater are not fully reported. • Residual petroleum hydrocarbon pollution in soil, groundwater, and soil vapor remains in place at this site. The extent of removal excavations was limited to south by sidewalk and utilities, and to east by the foundation of the retaining wall; residually contaminated soil with elevated concentrations remains in place along those perimeters (in soil up to 3,800 mg/kg TPHg, up to 580 mg/kg TPHd, and up to 22 mg/kg benzene remain). The extent of elevated concentrations in soil extends at least to the location of well MW-8J in Grand Avenue. Residual concentrations do not appear to significantly impact groundwater; however, elevated soil vapor is present but does not appear to have a receptor as currently developed. Upon redevelopment this data and current conclusions are to be revisited. • Only MTBE has been analyzed for at the site; the maximum detected concentration was 4.0 µg/l and reduced to 1.0 µg/l. MTBE was not detected in soil. TBA, TAME, ETBE, DIPE, EtOH, EDB, and EDC all were not analyzed at the site. • Grab groundwater samples collected at SV-4, SV-5, and SV-6 (non-detectable for TPHg, BTEX, and up to 1.0 µg/l MTBE) were used to confirm and validate non-detectable (for these analytes) groundwater results from generally submerged wells MW-8K and MW-8L.

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment under the a commercial land use scenario based upon the information available in our files to date. No further investigation or cleanup for the fuel leak case is necessary unless a change in land use to any residential or other conservative land use scenario; or construction or excavation activities occurs at the site. ACEH staff recommend case closure for this fuel leak site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

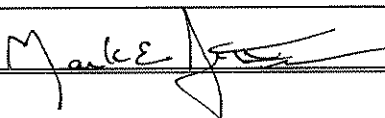
Prepared by: Mark Detterman	Title: Hazardous Materials Specialist
Signature: 	Date: 3/3/11
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: 	Date: 03/04/11

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: 3/11/11	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 4/27/11	Date of Well Decommissioning Report: 9/6/11	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 6	Number Retained: 0
Reason Wells Retained: None Retained		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: 	Date: 9/21/11	

Attachments:

1. Site Vicinity Map (1 pp)
2. Site Plans (4 pp)
3. Soil Analytical Data (7 pp)
4. Grab Groundwater Analytical Data (1 pp)
5. Soil Vapor Analytical Data (2 pp)
6. Groundwater Analytical Data (15 pp)
7. Boring Logs (34 pp)
8. Cross Sections (3 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

Detterman, Mark, Env. Health

From: Cherie McCaulou [CMccaulou@waterboards.ca.gov]
Sent: Tuesday, March 29, 2011 10:36 AM
To: Detterman, Mark, Env. Health
Cc: Drogos, Donna, Env. Health
Subject: Re: RO0000391; Closure Summary for Chevron #21-1173

Mark - Thanks for the notification. We have no objection to ACEH's recommendation for case closure of RO0000391, for the UST releases at 500 Grand Avenue, Oakland.

Sincerely,

Cherie McCaulou
Engineering Geologist
San Francisco Bay Regional Water Quality Control Board
cmccaulou@waterboards.ca.gov
510-622-2342

>>> "Detterman, Mark, Env. Health" <Mark.Detterman@acgov.org> 3/11/2011 4:31 PM >>>
Hi Cherie,

Attached is a closure summary for RO0000391; Chevron #21-1173, located at 500 Grand in Oakland, in order to comply with the RWQCB's 30-day review period. If no comments from the RWQCB are received within the 30-day review period, ACEH's will proceed with case closure.

This is an older site with an extensive history. Residual contamination will be left in place and the site will be placed in the Oakland permit tracking system. Twelve wells are installed; well destruction is pending RWQCB concurrence.

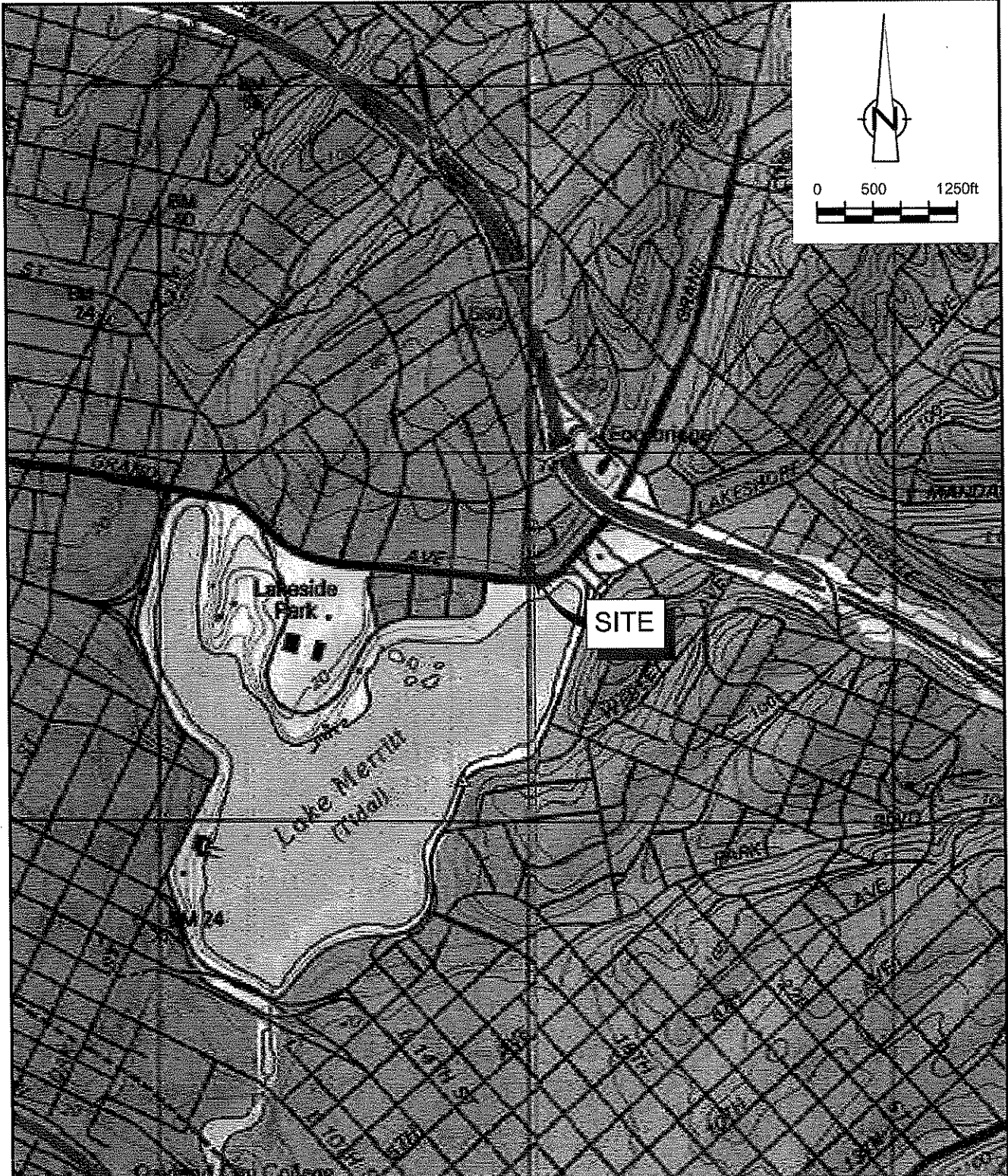
Should you have questions, please let me know.
Best,

*Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org*

PDF copies of case files can be downloaded at:

<http://www.acgov.org/aceh/lop/ust.htm>

ATTACHMENT 1















SOURCE: TOPOI MAPS.

figure 1

VICINITY MAP
FORMER TEXACO SERVICE STATION 21-1173
500 GRAND AVENUE
Oakland, California



LEGEND

-  Monitoring Well
-  Observation Well
-  Soil Boring
-  Decommissioned Monitoring Well
-  Ground-Water flow direction
-  Bench Mark (HLA datum el. = 100 Feet)
-  Area of clay pipe excavation
-  Soil samples collected from trench
-  Clay pipe (abandoned sewer line?)
-  Air
-  Water
-  Electrical

620 Groundwater concentrations of TPH as motor oil in parts per billion. Samples collected 1/8/91

MW-8F
620

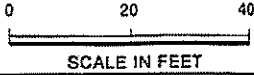
MW-8H
89

MW-8I
210

MW-8J
69

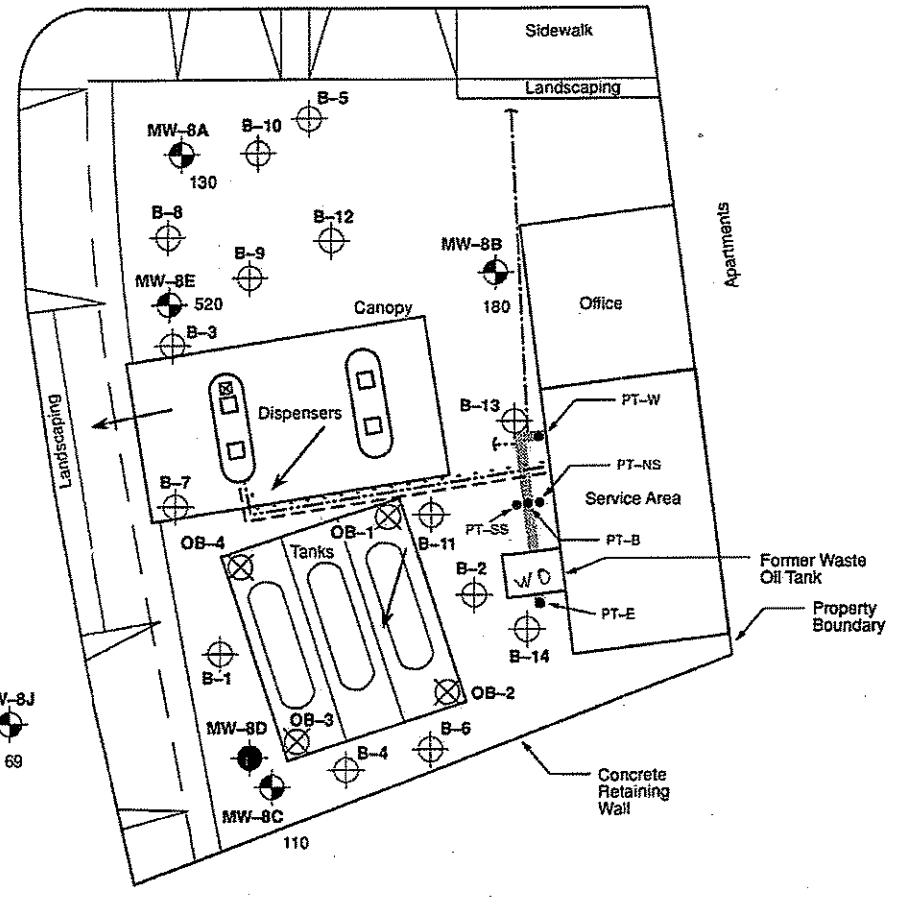
MW-8G
260

B-8K



EUCLID AVENUE

GRAND AVENUE



Harding Lawson Associates
Engineering and
Environmental Services

DRAWN S. Patel
JOB NUMBER 2251,114.03

Site Plan Showing TPH as Motor Oil
Concentrations in Groundwater
Former Texaco Station
500 Grand Avenue
Oakland, California

APPROVED JSH

DATE 11/09/90
REVISED DATE 01/30/91

PLATE
1

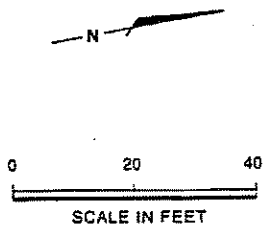
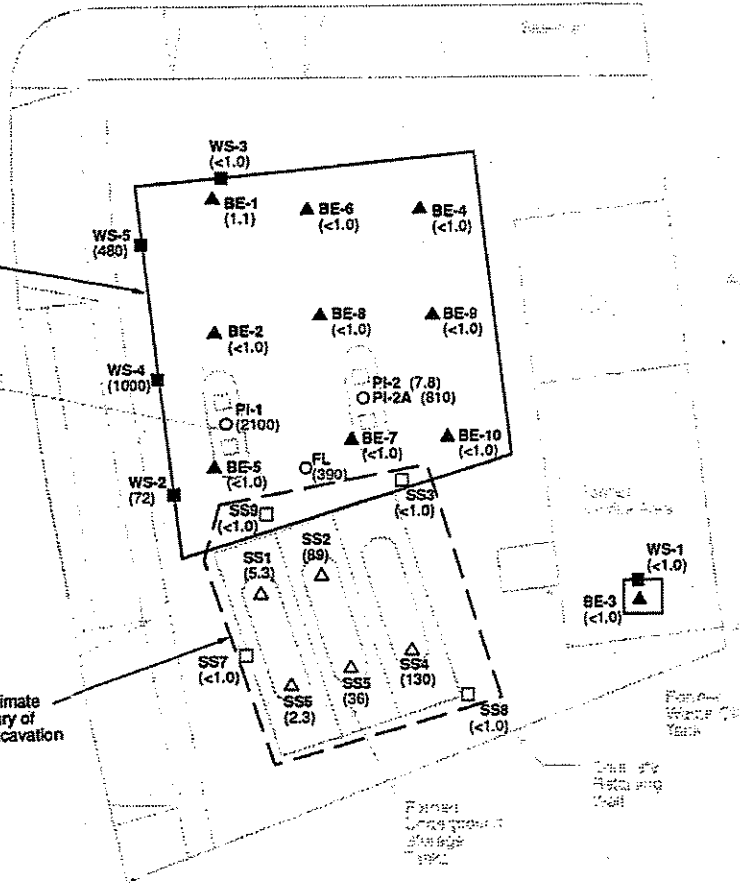
EXPLANATION

- Approximate boundary of excavation at the time of tank removal (April 14 and 15, 1992)
- △ Soil sample (SS) from bottom of tank excavation (approximately 10 feet below grade)
- Soil sample (SS) from wall of tank excavation (5 to 10 feet below grade)
- Approximate boundary of soil excavation (May 5 and 6, 1992)
- Soil sample from pump island (PI) of fuel line (FL) prior to excavation (5 to 6 feet below grade)
- ▲ Soil sample (BE) from bottom of excavation (4.5 to 9 feet below grade)
- Soil sample (WS) from wall of excavation (5 to 7.5 feet below grade)
- (2.3) Total petroleum hydrocarbons as gasoline, in mg/kg (ppm)

DRAINAGE CANALS

Approximate boundary of additional soil excavation

Approximate boundary of tank excavation



	Harding Lawson Associates Engineering and Environmental Services	Locations Sampled During Excavation Operations Former Service Station 500 Grand Avenue Oakland, California	PLATE 6
	DRAWN SRG	JOB NUMBER 10262.169	APPROVED



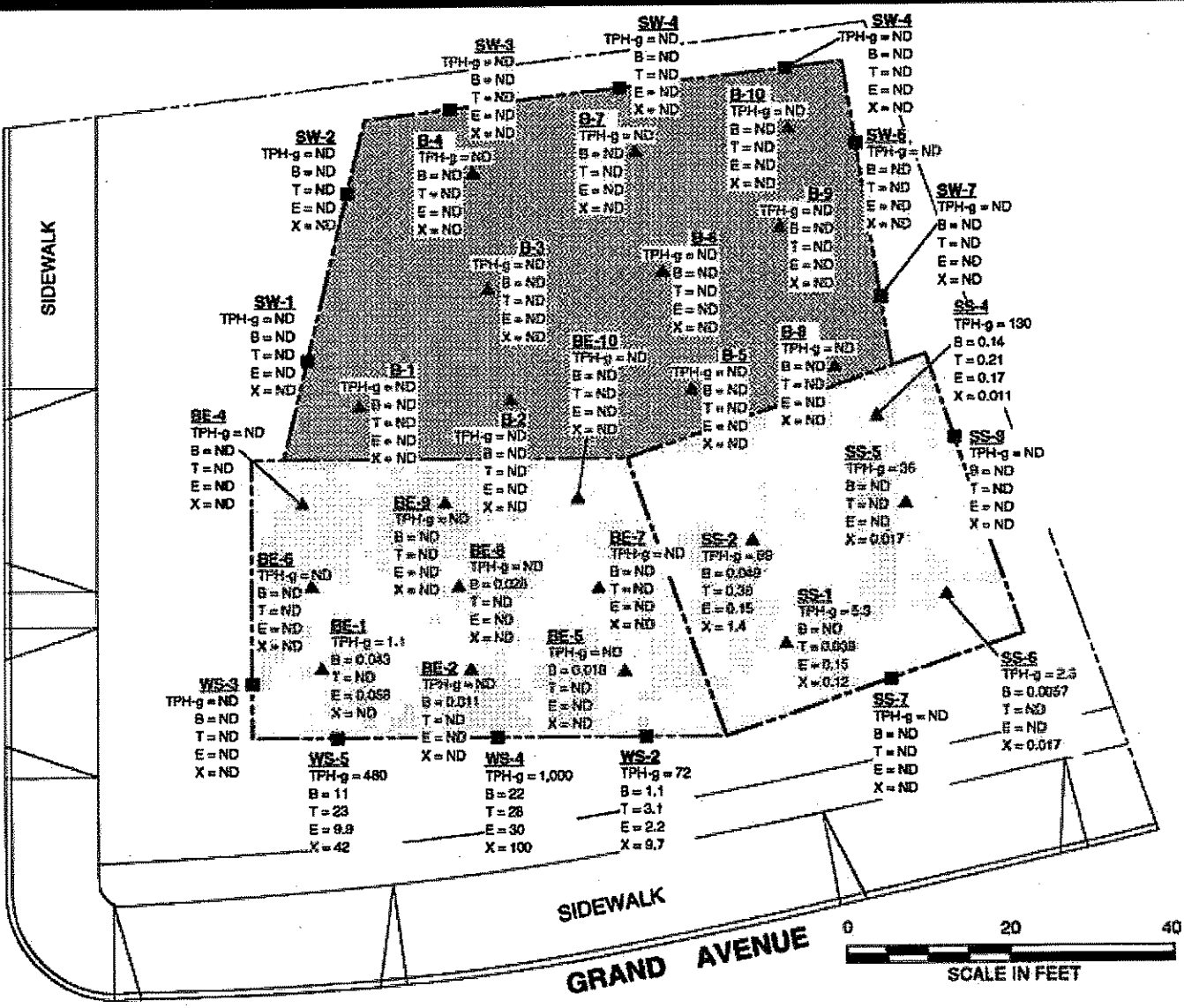
EUCLID AVENUE

SIDEWALK

SIDEWALK
GRAND AVENUE

LEGEND

- ▲ PIT SAMPLE LOCATION
- SIDEWALL SAMPLE LOCATION
- TPH-g = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (in milligrams per kilogram)
- B = BENZENE (in milligrams per kilogram)
- T = TOLUENE (in milligrams per kilogram)
- E = ETHYLBENZENE (in milligrams per kilogram)
- X = XYLENES (in milligrams per kilogram)
- ND = NOT DETECTED AT METHOD DETECTION LIMIT
- ▨ EXCAVATIONS (April/May 1992)
- ▩ EXCAVATION (January 1993)



PLAN: EXCAVATION LIMITS, SAMPLE LOCATIONS and ANALYTICAL RESULTS

TEXACO OIL COMPANY
 500 Grand Avenue
 Oakland, California

Scale	AS SHOWN	Project No.	93-44-197-02
Prepared by	TNW	Date	3/11/93
Checked by	GLM	Drawing No.	
Approved by	PAF		

 **Converse Environmental West**

TABLE 2

SOIL SAMPLE ANALYTICAL RESULTS
FORMER TEXACO STATION 21-1173
500 GRAND AVENUE
OAKLAND, CALIFORNIA

Boring/ Sample ID	Sample Depth (fbg)	Sample Date	TPH _{mo}	TOG	TPH _d	TPH _g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	HVOCs	TPH other
<i>Concentrations reported in milligrams per kilogram mg/kg</i>													
Exploratory and Monitoring Well Borings													
B-1	6.5	10/10/88	--	--	--	12	<0.05	<0.1	<0.2	<0.1	--	--	--
B-3	4	10/10/88	--	--	--	520	<4	<2	<4	5	--	--	--
B-4	3.5	10/10/88	--	--	--	510	<0.5	1	3.5	13	--	--	--
B-5	5.5	3/2/89	--	--	--	<10	<0.05	<0.1	<0.2	<0.1	--	--	--
B-5	10.5	3/2/89	--	--	--	<10	<0.05	<0.1	<0.2	<0.1	--	--	--
B-5	16	3/2/89	--	--	--	<10	<0.05	<0.1	<0.2	<0.1	--	--	--
B-6	2	10/26/89	--	--	<100	1	<0.05	0.08	<0.05	<0.05	--	--	--
B-6	4.5	10/26/89	--	--	<10	<1.0	<0.05	0.09	<0.05	<0.05	--	--	--
B-7	3	10/26/89	--	--	<100	580	<0.5	6.7	5.1	50	--	--	--
B-8	2	10/26/89	--	--	<10	3.4	0.05	<0.05	<0.05	0.34	--	--	--
B-9	2.5	10/26/89	--	--	460	100	0.05	0.32	0.81	6.4	--	--	--
B-8K	1.5	1/8/90	--	--	--	2.1	ND	ND	ND	ND	--	--	ND
	3	1/8/90	--	--	--	6.6	ND	0.05	ND	ND	--	--	ND
	5.5	1/8/90	--	--	--	84	ND	ND	0.08	0.05	--	--	20
B-10	1.5	1/8/90	--	--	--	8.4	0.28	ND	0.2	0.18	--	--	ND
	2.5	1/8/90	--	--	--	ND	0.09	ND	ND	ND	--	--	ND
	5.5	1/8/90	--	--	--	ND	ND	ND	ND	ND	--	--	ND
	8.5	1/8/90	--	--	--	ND	ND	ND	ND	ND	--	--	ND
B-11	1.5	1/8/90	--	--	--	2,900	ND	ND	5.4	1.6	--	--	30
	2.5	1/8/90	--	--	--	62	ND	ND	0.31	0.12	--	--	11
	5.5	1/8/90	--	--	--	17	ND	ND	0.06	ND	--	--	ND
B-11	8.5	1/8/90	--	--	--	ND	ND	ND	ND	ND	--	--	ND

ATTACHMENT 3

TABLE 2

**SOIL SAMPLE ANALYTICAL RESULTS
FORMER TEXACO STATION 21-1173
500 GRAND AVENUE
OAKLAND, CALIFORNIA**

Boring/ Sample ID	Sample Depth (fbg)	Sample Date	TPHmo	TOG	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	HVOCs	TPH other
<i>Concentrations reported in milligrams per kilogram mg/kg</i>													
B-12	1	1/8/90	--	--	--	13	0.22	0.11	0.18	0.42	--	--	ND
	2.5	1/8/90	--	--	--	49	ND	ND	0.19	0.83	--	--	ND
	4.5	1/8/90	--	--	--	1,200	ND	ND	1.27	0.67	--	--	94
	6	1/8/90	--	--	--	ND	ND	0.06	ND	ND	--	--	ND
B-13	1.5	2Q90*	--	--	ND	ND	ND	ND	ND	ND	--	--	ND
	2.5 ^{1,2,3}	2Q90*	--	5,600	ND	130	ND	ND	1.7	5.4	--	ND	1,000
	3.5	2Q90*	--	--	ND	26	ND	0.06	0.06	0.3	--	--	250
B-14	1.5	2Q90*	--	--	ND	4.8	ND	ND	ND	ND	--	--	85
	3.5	2Q90*	--	--	ND	2.3	ND	ND	ND	ND	--	--	62
MW-8D	1.3	6/7/88	--	--	--	10	<0.05	0.4	<0.2	0.5	--	--	--
MW-8E	5.5	10/11/88	--	--	--	750	0.82	6.5	5.5	26	--	--	--
MW-8F	11	3/16/89	--	--	--	<10	<0.5	<0.1	<0.2	<0.1	--	--	--
MW-8G	6	3/16/89	--	--	--	<10	<0.5	<0.1	<0.2	<0.1	--	--	--
MW-8H	1.5	1/10/90	--	--	--	ND	ND	0.07	ND	ND	--	--	ND
	3	1/10/90	--	--	--	2.6	ND	0.24	ND	ND	--	--	ND
	5.5	1/10/90	--	--	--	550	ND	ND	0.3	0.83	--	--	66
	10.5	1/10/90	--	--	--	ND	ND	ND	ND	ND	--	--	ND
MW-8I	1.5	1/9/90	--	--	--	3	0.1	ND	ND	ND	--	--	ND
	3.5	1/9/90	--	--	--	ND	0.06	ND	ND	0.02	--	--	ND
	5.5	1/9/90	--	--	--	280	ND	ND	2.7	9.2	--	--	ND
	10.5	1/9/90	--	--	--	ND	ND	ND	ND	ND	--	--	ND
MW-8J	1.5	1/9/90	--	--	--	24	0.18	0.09	0.06	0.05	--	--	ND
MW-8J	3	1/9/90	--	--	--	13	0.08	0.14	0.04	ND	--	--	33
	5.5	1/9/90	--	--	--	2100	ND	ND	25	9.2	--	--	83

TABLE 2

**SOIL SAMPLE ANALYTICAL RESULTS
FORMER TEXACO STATION 21-1173
500 GRAND AVENUE
OAKLAND, CALIFORNIA**

Boring/ Sample ID	Sample Depth (ftg)	Sample Date	TPHmo	TOG	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	HVOCs	TPH other
<i>Concentrations reported in milligrams per kilogram mg/kg</i>													
	10.5	1/9/90	--	--	--	8	ND	0.02	ND	ND	--	--	ND
S-1	4	11/20/06	--	<330	15	390	<0.062	<0.12	0.9	1.9	--	--	--
S-2	4	11/20/06	--	<330	580	3,800	0.41	17	36	170	--	--	--
S-3	4	11/20/06	--	<330	11	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--
SV-5	2	3/18/08	--	--	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--
SV-7	2	3/18/08	--	--	--	16	0.001	<0.001	0.078	0.027	<0.0005	--	--
SV-7	5	3/18/08	--	--	--	1,400	0.11	0.059	15	19	<0.025	--	--
SV-8	2	3/19/08	--	--	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--
SV-8	5	3/19/08	--	--	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	--
Waste Oil Tank Excavation													
W.O.#2	1.5	9/25/90	--	200	<5.0	<1.0	0.048	<0.005	0.007	0.013	--	ND	--
W.O.#3	1.5	9/25/90	--	2,600	220	15	0.53	0.06	0.75	1.5	--	ND	--
W.O.#4	1.5	9/25/90	--	500	17	1.9	0.054	0.012	0.062	0.29	--	ND	--
W.O.#5	1.5	9/25/90	--	100	21	<1.0	<0.005	0.017	<0.005	<0.005	--	ND	--
W.O.#6	2.0	10/3/90	--	100	--	--	--	--	--	--	--	--	--
W.O.#7	1.5	10/3/90	--	850	--	--	--	--	--	--	--	--	--
W.O.#8	8	10/3/90	--	<50	<5.0	<1.0	<0.005	0.016	<0.005	<0.005	--	--	--
Clay Pipe Excavation													
PT-NS-7.5	2.5	1/8/91	330	110	28	22	0.02	ND	0.055	0.13	--	ND	--
PT-B-7.5	4.5	1/8/91	93	150	8.1	5.7	ND	ND	ND	ND	--	ND	--
PT-SS-7.5	2.5	1/8/91	160	630	17	100	0.071	0.071	0.3	0.63	--	ND	--
PT-E-1.5	1.5	1/8/91	--	780	110	1.1	<0.005	<0.005	<0.005	<0.005	--	--	--
PT-W-1.5	1.5	1/8/91	--	370	190	3.8	<0.005	0.014	<0.005	0.024	--	--	--
Gasoline UST and Dispenser Island Excavation													
SS1	10	4/14/92	--	--	--	5.3	<0.005	0.038	0.016	0.12	--	--	--
SS2	10	4/14/92	--	--	--	89	0.049	0.38	0.15	1.4	--	--	--
SS3	5	4/14/92	--	--	--	<1.0	<0.005	<0.005	<0.005	0.011	--	--	--
SS4	10	4/14/92	--	--	--	130	0.14	0.21	0.17	1.1	--	--	--
SS5	10	4/14/92	--	--	--	36	0.2	0.028	0.04	0.15	--	--	--

TABLE 2

SOIL SAMPLE ANALYTICAL RESULTS
FORMER TEXACO STATION 21-1173
500 GRAND AVENUE
OAKLAND, CALIFORNIA

Boring/ Sample ID	Sample Depth (fbg)	Sample Date	TPHmo	TOG	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	HVOCs	TPH other
<i>Concentrations reported in milligrams per kilogram mg/kg</i>													
SS6	10	4/14/92	--	--	--	2.3	0.0057	<0.005	<0.005	0.017	--	--	--
SS7	5	4/14/92	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
SS8	5	4/14/92	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
SS9	5	4/14/92	--	--	--	<1.0	0.0069	<0.005	<0.005	<0.005	--	--	--
PI-1	5	4/15/92	--	190	--	2,100	11	60	32	180	--	--	--
PI-2	5	4/15/92	--	30	--	7.8	0.019	0.013	0.035	0.077	--	--	--
PI-2A	6	4/15/92	--	6,900	--	810	1.3	1.1	2	11	--	--	--
Fuel Line	5	4/15/92	--	36	--	390	0.92	2.9	3.6	21	--	--	--
Site Over-Excavation													
BE-1	8	5/5/92	--	--	--	1.1	0.043	<0.005	0.058	<0.005	--	--	--
BE-2	8	5/5/92	--	--	--	<1.0	0.011	<0.005	<0.005	<0.005	--	--	--
BE-3	4	5/5/92	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
BE-4	4.5	5/5/92	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
BE-5	7.5	5/5/92	--	--	--	<1.0	0.018	<0.005	<0.005	<0.005	--	--	--
BE-6	7.5	5/5/92	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
BE-7	8	5/5/92	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
BE-8	8	5/5/92	--	--	--	<1.0	0.028	<0.005	<0.005	<0.005	--	--	--
BE-9	9	5/5/92	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
BE-10	9	5/5/92	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
WS-1	3	5/5/92	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
WS-2	5	5/5/92	--	--	--	72	1.1	3.1	2.2	9.7	--	--	--
WS-3	7.5	5/5/92	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
WS-4	5	5/5/92	--	--	--	1,000	22	28	30	100	--	--	--
WS-5	5	5/5/92	--	--	--	480	11	23	9.9	42	--	--	--
SW-1**	Sidewall	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
SW-2**	Sidewall	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
SW-3**	Sidewall	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
SW-4**	Sidewall	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
SW-5**	Sidewall	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
SW-6**	Sidewall	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
SW-7**	Sidewall	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
B-1**	Bottom	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--

TABLE 2

**SOIL SAMPLE ANALYTICAL RESULTS
FORMER TEXACO STATION 21-1173
500 GRAND AVENUE
OAKLAND, CALIFORNIA**

Boring/ Sample ID	Sample Depth (fbg)	Sample Date	TPH _{mo}	TOG	TPH _d	TPH _g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	HVOCs	TPH other
<i>Concentrations reported in milligrams per kilogram mg/kg</i>													
B-2**	Bottom	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
B-3**	Bottom	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
B-4**	Bottom	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
B-5**	Bottom	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
B-6**	Bottom	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
B-7**	Bottom	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
B-8**	Bottom	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
B-9**	Bottom	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--
B-10**	Bottom	1/20/93	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--

Abbreviations/Notes:

Total petroleum hydrocarbons as motor oil (TPH_{mo}), diesel (TPH_d), and gasoline (TPH_g) by EPA Method 8015

Total oil and grease (TOG) by EPA Method 5520

Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020 or 8260B

Methyl tertiary butyl ether (MTBE) by EPA Method 8260B

Halogenated volatile organic compounds (HVOCs) by EPA Method 8010

"TPH other" = heavier-end hydrocarbons such as waste oil, mineral spirits, jet fuel, or fuel oil by EPA Method 8015

-- = Not analyzed

<x = Not detected at or above stated laboratory reporting limits

ND = Not detected; reporting limits vary or are unknown

Note: samples that are crossed out were collected from soil that was later removed

* Exact drilling date unknown

¹ HVOCs not detected except for Trichloroethane at 0.06 mg/kg

² Semi-volatile organic compounds ND except for Naphthalene (0.9 mg/kg), 2-Methylnaphthalene (1.4 mg/kg), and Bis(2-ethylhexyl)phthalate (0.26 mg/kg)

³ Cadmium (ND), Chromium (36 mg/kg), Lead (ND), Zinc (41 mg/kg)

** Exact sample depths unknown; depth of excavation reportedly averaged 4.5 feet

Table 3. Summary of Chemical Analyses
Soil Sample B-13 (2.5 feet deep)

Semivolatile Organics; EPA Test Method 8270

- Analyses for 55 semivolatile organic compounds
- Results were below reporting limit on all except:

Naphthalene	900 ppb
2 Methylnapthalene	1400 ppb
Bis (2-ethylhexyl)phthalate	260 ppb

Halogenated Volatile Organics; EPA Method 8010

- Analyses for 29 compounds
- Results were below reporting limits on all except:

Trichloroethane	0.06 ppm
-----------------	----------

Total Oil and Grease (IR) 5600 ppm

Cd, Cr, Pb, Zn - EPA Method 503E

Cd - BRL
Cr - 36 ppm
Pb - BRL
Zn - 41 ppm

TABLE 4. SOIL ANALYTICAL RESULTS - STOCKPILE
Final Composite Metals
Composite Sample #9 and #10*

Former Texaco Service Station
500 Grand Avenue
Oakland, California

Title 22 Metals	Units	Results
Antimony	mg/kg	ND(0.5)
Arsenic	mg/kg	2.6
Barium	mg/kg	110
Beryllium	mg/kg	0.7
Cadmium	mg/kg	ND(0.5)
Chromium	mg/kg	48
Chromium (H)	mg/kg	ND(50)
Cobalt	mg/kg	17
Copper	mg/kg	27
Lead	mg/kg	4.4
Lead (O)	mg/kg	ND(0.1)
Mercury	mg/kg	0.10
Nickel	mg/kg	65
Molybdenum	mg/kg	ND(3)
Selenium	mg/kg	ND(0.5)
Silver	mg/kg	1.0
Thallium	mg/kg	ND(3)
Vanadium	mg/kg	48
Zinc	mg/kg	61

* Composite samples #9 and #10 are both composited from composite sample 1, 2, 3, 4, and 5

(H) Hexavalent

(O) Organic

ND Not detected. Detection limits in parentheses

TABLE 3

**GRAB-GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER TEXACO STATION 21-1173
500 GRAND AVENUE
OAKLAND, CALIFORNIA**

<i>Sample ID</i>	<i>Sample Date</i>	<i>TPHd</i>	<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl- benzene</i>	<i>Xylenes</i>	<i>MTBE</i>	<i>TPHmo</i>	<i>TOG</i>	<i>HVOCs</i>
Concentrations reported in micrograms per liter (µg/L)											
Clay Pipe Excavation Water Samples											
EP-01*	1/8/91	31,000	5,200	280	300	120	860	--	100,000	--	--
WP-01*	1/8/91	13,000	3,900	320	73	95	48	--	17,000	--	--
Waste Oil Tank Excavation											
W.O.T.#1*	9/25/90	1,400	1,900	320	180	2.1	300	--	--	70	ND
Exploratory Borings											
SV-4-W	3/18/08	--	<50	<0.5	<0.5	<0.5	<0.5	1	--	--	--
SV-5-W	3/18/08	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--
SV-6-W	3/18/08	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--
SV-7-W	3/18/08	--	6,200	200	7	250	260	0.7	--	--	--
SV-8-W	3/19/08	--	<50	<0.5	<0.5	<0.5	<0.5	2	--	--	--

Abbreviations/Notes:

Total petroleum hydrocarbons as diesel (TPHd) and gasoline (TPHg) by EPA Method 8015

Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020 or 8260B

Methyl tertiary butyl ether (MTBE) by EPA Method 8260B

Total oil and grease (TOG) by EPA Method 5520

Halogenated volatile organic compounds (HVOCs) by EPA Method 8010

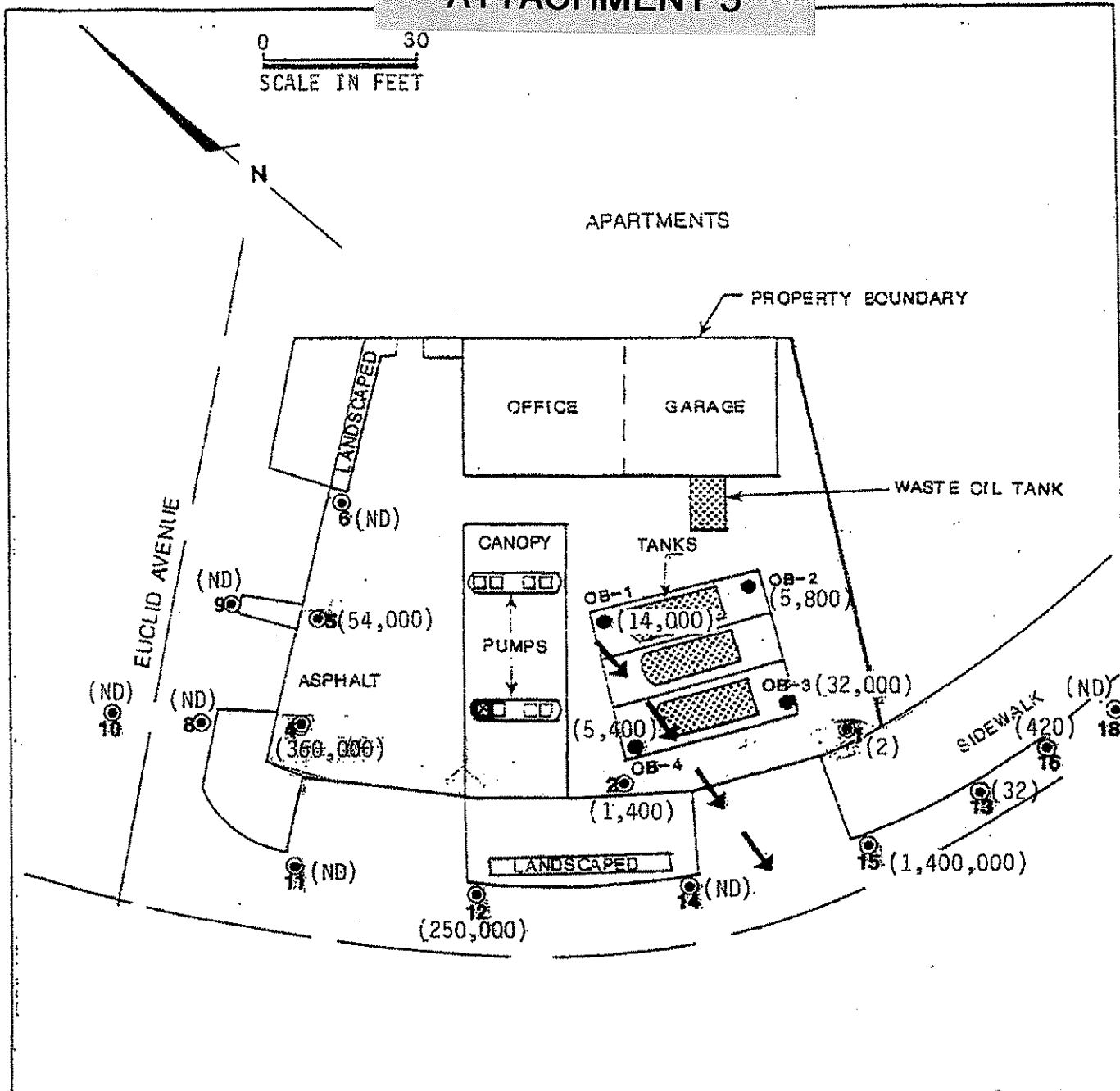
* Samples collected prior to removal of water from excavation

<x = Not detected at or above stated laboratory reporting limits

-- = Not Analyzed

ND = Not detected; reporting limits vary

ATTACHMENT 5



LEGEND

OB-1 ● Observation Well and Number

← Ground-water Flow Direction

●12 Soil-gas Probe Location and Number
(250,000) (total hydrocarbon concentration ug/l)



Harding Lawson Associates
Engineers and Geoscientists

Soil-Gas Probe Locations
Former Texaco Service Station
500 Grand Avenue
Oakland, California

PLATE

3

DRAWN

YC

JOB NUMBER

2251,081.03

APPROVED

AK

DATE

5/89

APP. SEC

DATE

TABLE 4

SOIL VAPOR SAMPLE ANALYTICAL RESULTS
FORMER TEXACO STATION 21-1173
500 GRAND AVENUE
OAKLAND, CALIFORNIA

Sample ID	Sample Depth (ftg)	Sample Date	TPHg	Total Hydrocarbons	Benzene	Toluene	Ethyl- benzene	Xylenes
Concentrations reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)								
SG-01	3	9/21/88	--	<800	<800	<800	<900	<900
	6	9/21/88	--	2,000	400	400	<200	400
SG-02	3	9/21/88	--	1.40E+06	3.20E+05	2.80E+05	1.20E+05	23,000
SG-04	4	9/21/88	--	3.60E+08	8.60E+07	4.00E+07	2.60E+07	3.30E+06
SG-05	2	9/21/88	--	5.40E+07	4.20E+07	8.60E+06	86,000	86,000
SG-06	4	9/21/88	--	<800	<800	<800	<900	<900
SG-08	5	9/28/88	--	<400	<400	<400	<500	<400
SG-09	4	9/28/88	--	<400	<400	<400	<500	<400
SG-10	4	9/28/88	--	<400	<400	<400	<500	<400
SG-11	3.5	9/28/88	--	<400	<400	<400	<500	<400
SG-12	4	9/28/88	--	2.50E+08	3.80E+07	1.60E+07	1.80E+05	1.70E+05
SG-13	3	9/28/88	--	32,000	<400	<400	<500	<400
SG-14	4	9/28/88	--	<400	<400	<400	<500	<400
SG-15	3	9/28/88	--	1.40E+09	3.00E+08	9.00E+07	2.70E+07	2.20E+07
SG-16	4	9/28/88	--	4.20E+05	1.20E+05	63,000	14,000	14,000
SG-17	4	9/28/88	--	<400	<400	<400	<500	<400
SG-18	4	9/28/88	--	<8,000	<8,000	<7,000	<9,000	<9,000
SV-1	4	11/20/06	60,000	--	3,400	330	2,600	380
SV-2	4	11/20/06	2.00E+06	--	34,000	1.60E+05	64,000	2.80E+05
SV-2 Duplicate ¹	4	11/20/06	7.20E+05	--	14,000	69,000	27,000	1.10E+05

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes by EPA Method TO-3 Modified

Total hydrocarbons = approximately C4-C9 aliphatic, alicyclic, and aromatic compounds

Note: Samples collected in 1988 analyzed using a gas chromatograph and flame ionization detector (FID)

-- = Not analyzed

<x = Not detected at or above stated laboratory reporting limits

¹ Field duplicate sample collected simultaneously with initial sample

ATTACHMENT 6

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other*)

Former Texaco Service Station
500 Grand Avenue at Euclid Avenue
Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	TPH as Other* (ppb)
MW-8A	06/14/88	NA	<0.5	1.5	<2	6.6	NA	NA
	10/25/88	NA	<0.5	<1	<2	<1	NA	NA
	09/28/89	<50	<0.5	<0.5	<0.5	<3	NA	NA
	11/29/89	<50	<0.5	1.0	<0.5	<0.5	1,200	<50
	01/24/90	<100	<0.5	<0.5	<0.5	<0.5	NA	2,800
	04/26/90	<2,500	<0.5	<0.5	<0.5	<0.5	<50	890
	07/26/90	<50	8.0	<0.5	<0.5	<0.5	<50	<50
	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/08/91	<30	<0.3	<0.3	<0.3	<0.3	<50	130
	04/23/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	07/23/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	10/24/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	01/23/92	<50	<0.5	<0.5	<0.5	<0.5	700	NA
	04/30/92	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	08/03/92	----- Well Properly Abandoned -----						
MW-8B	06/14/88	NA	<0.5	<1	<2	<1	NA	NA
	10/21/88	NA	<0.5	<1	<2	3.1	NA	NA
	09/28/89	<50	<0.5	<0.5	<0.5	<3	NA	NA
	11/29/89	<50	<0.5	<0.5	<0.5	<0.5	<50	380
	01/24/90	<100	<0.5	<0.5	<0.5	<0.5	NA	350
	04/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	110
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/08/91	<30	<0.3	<0.3	<0.3	<0.3	<50	160
	04/23/91	<50	8.4	2.5	<0.5	5.1	<50	<500
	07/23/91	<50	<0.5	1.1	<0.5	2.0	<50	<500
	10/24/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	01/23/92	<50	<0.5	<0.5	<0.5	<0.5	550	NA
	04/30/92	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	09/28/92	----- Not Sampled -----						
11/19/92	----- Not Sampled -----							
02/12/93	----- Not Sampled -----							
04/01/93	----- Well Properly Abandoned -----							
MW-8C	06/14/88	NA	5.3	3.5	2.6	13.0	NA	NA
	10/21/88	NA	<0.5	<1	<2	<1	NA	NA
	09/28/89	<50	<0.5	<0.5	<0.5	<3.0	NA	NA
	11/29/89	<50	<0.5	<0.5	<0.5	<0.5	<50	190
	01/24/90	<100	0.9	<0.5	<0.5	<0.5	NA	480
	04/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	160
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/08/91	<30	<0.3	<0.3	<0.3	<0.3	76	110
	04/23/91	800	12	25	3.7	19	<50	<500
	07/23/91	<50	<0.5	0.6	<0.5	<0.5	<50	<500
	10/24/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	01/23/92	<50	1.2	<0.5	<0.5	<0.5	840	NA

Table 2 (continued)
 Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other*)

Former Texaco Service Station
 500 Grand Avenue at Euclid Avenue
 Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	TPH as Other* (ppb)
MW-8C	04/30/92	<50	<0.5	<0.5	<0.5	<0.5	150	<500
(cont.)	09/28/92	-----	-----	-----	-----	-----	-----	-----
	11/19/92	-----	-----	-----	-----	-----	-----	-----
	02/12/93	-----	-----	-----	-----	-----	-----	-----
	04/01/93	----- Well Properly Abandoned -----						
MW-8E	10/25/88	NA	1,400	510	2.9	420	NA	NA
	09/28/89	22,000	5,600	3,100	<500	<3,000	NA	NA
	11/29/89	15,000	4,900	2,600	<250	1,490	6,800	<50
	01/24/90	36,000	10,100	3,340	540	1,790	NA	4,900
	04/26/90	48,000	11,000	5,700	840	2,800	1,400	<50
	07/26/90	56,000	15,000	6,200	520	4,700	<50	<50
	10/18/90	15,000	1,500	1,300	170	1,800	620	<50
	01/08/91	51,000	14,000	5,400	860	1,700	17,000	520
	04/23/91	50,000	19,000	6,100	750	4,100	4,800	<500
	07/23/91	47,000	16,000	5,400	1,100	4,000	3,500	<500
	10/24/91	40,000	19,000	6,100	1,100	4,900	9,400	<500
	01/23/92	38,000	3,800	2,800	610	4,800	9,800	NA
	04/23/92	41,000	20,000	3,700	500	3,900	9,600	<500
	08/03/92	----- Well Properly Abandoned -----						
MW-8F	04/14/88	NA	<0.5	<1	<2	<1	NA	NA
	09/28/89	<50	<0.5	<0.5	<0.5	<3.0	NA	NA
	11/29/89	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/24/90	<100	<0.5	<0.5	<0.5	<0.5	NA	<900
	04/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	110
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	360	<50
	01/08/91	<30	<0.3	<0.3	<0.3	<0.3	380	620
	04/23/91	<50	5.9	3.1	<0.5	2.7	1,400	3,200
	07/23/91	<50	<0.5	0.8	<0.5	<0.5	60	<500
	10/24/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	01/23/92	<50	4.0	1.3	<0.5	1.9	1,300	NA
	04/30/92	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	09/28/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	11/19/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	02/12/93	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	05/06/93	<50	<0.5	<0.5	<0.5	<0.5	<100	<50
MW-8G	04/14/88	NA	<0.5	<1	<2	<1	NA	NA
	09/28/89	<50	<0.5	<0.5	<0.5	<3.0	NA	NA
	11/29/89	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/24/90	<100	<0.5	<0.5	<0.5	<0.5	NA	650
	04/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	120
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	460	<50
	01/08/91	<30	<0.3	<0.3	<0.3	<0.3	220	260
	04/23/91	<50	0.9	0.9	<0.5	<0.5	1,100	<500

Table 2 (continued)
 Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other*)

Former Texaco Service Station
 500 Grand Avenue at Euclid Avenue
 Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	TPH as Other* (ppb)
MW-8G	07/23/91	<50	0.5	1.5	<0.5	3.0	<50	<500
(cont.)	10/24/91	<50	0.6	<0.5	<0.5	<0.5	NA	NA
	01/24/92	<50	<0.5	<0.5	<0.5	<0.5	980	NA
	04/30/92	<50	1.7	<0.5	<0.5	<0.5	<50	<500
	09/28/92	Well Dry						
	11/19/92	Well Inaccessible						
	02/12/93	Well Inaccessible						
	04/28/93	<50	<0.5	<0.5	<0.5	<0.5	64	<250
MW-8H	01/24/90	460	14.8	14.8	10.8	38.8	NA	<300
	04/26/90	830	67	19	43	64	<50	820
	07/26/90	190	45	1.3	12	8.2	<50	<50
	10/18/90	300	17	2.5	14	8.5	<50	<50
	01/08/91	320	12	2.2	6.4	4.0	180	89
	04/23/91	<50	1.5	<0.5	<0.5	<0.5	730	<500
	07/23/91	270	21	1.8	9.7	2.6	<50	<500
	10/24/91	120	7.6	1.0	3.5	2.4	70	<500
	01/23/92	110	7.2	1.2	4.7	3.2	<50	NA
	04/30/92	190	11	1.5	5.6	3.6	90	<500
	09/28/92	Well Inaccessible						
	11/19/92	130	6.8	<0.5	1.1	1.5	NA	NA
	02/12/93	73	5.9	<0.5	0.8	<0.5	NA	NA
	05/06/93	57	1.7	<0.5	<0.5	<0.5	<100	<50
MW-8I	01/24/90	580	116	2.9	13	30.5	NA	440
	04/26/90	4,400	2,400	100	230	350	<50	1,400
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	10/18/90	630	92	4.1	37	21	<50	<50
	01/08/91	1,300	500	4.3	36	26	710	210
	04/23/91	1,500	1,600	17	100	86	1,100	900
	07/23/91	1,700	1,500	30	140	63	260	<500
	10/25/91	760	470	6.0	76	13	230	<600
	01/23/92	820	420	7.2	27	20	210	NA
	04/30/92	2,200	1,800	19	180	25	430	<500
	09/28/92	Well Inaccessible						
	11/19/92	720	120	1.1	29	13	NA	NA
	02/12/93	4,000	870	9.2	52	36	NA	NA
	05/06/93	1,400	370	2.4	40	6.4	<100	<50
MW-8J	01/24/90	<100	2.7	<0.5	1	2.6	NA	<300
	04/26/90	160	28	7.7	19	24	<50	320
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	10/18/90	<50	8.3	<0.5	2.6	1.5	<50	<50
	01/08/91	71	0.41	<0.3	<0.3	0.52	<50	69
	04/23/91	300	16	2.2	9.3	4.6	660	<500
	07/23/91	<50	4.6	<0.5	3.1	<0.5	<50	<500
	10/24/91	<50	0.8	<0.5	<0.5	<0.5	<50	<500
	01/23/92	<50	0.8	<0.5	<0.5	<0.5	<50	NA

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
 (TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other*)

Former Texaco Service Station
 500 Grand Avenue at Euclid Avenue
 Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	TPH as Other* (ppb)
MW-8J	04/30/92	<50	2.3	<0.5	<0.5	<0.5	<50	<500
(cont.)	09/28/92	Well Inaccessible						
	11/19/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	02/12/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	05/06/93	<50	<0.5	<0.5	<0.5	<0.5	<100	<50
MW-8K	05/21/93	54	12	<0.5	<0.5	<0.5	<50	<50
MW-8L	05/21/93	76	1.1	<0.5	<0.5	6	<50	<50
OB-3	11/08/89	4,000	420	8	6	64	NA	NA
	04/26/90	1,000	160	19	5	8.6	3,200	<50
	07/26/90	68	<0.5	<0.5	<0.5	0.9	1,200	<50
	10/16/90	3,200	260	69	35	490	2,100	<50
----- Well Abandoned -----								
OB-4	11/08/89	4,000	500	11	10	24	NA	NA
	04/26/90	460	360	10	10	18	3,900	<50
	07/26/90	200	23	3.7	1.6	5.9	1,600	<50
	10/16/90	4,300	600	540	83	840	330	<50
----- Well Abandoned -----								
ppb = Parts per billion								
* = Includes "heavy" petroleum hydrocarbons such as waste oil, mineral spirits, jet fuel, or fuel oil.								
NA = Not analyzed								

Table 1
Groundwater Monitoring Data and Analytical Results
Former Texaco Service Station #211173
500 Grand Avenue
Oakland, CA

WELL ID/ DATE	TOC (msl)	DTW (ft)	GWE (msl)	SPH THICKNESS (ft)	TPH- GRO (ug/L)	TPH- DRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE by 8029 (ug/L)	MTBE by 8250 (ug/L)	DO Reading (ppm)
MW-8A --	--	--	--	--	WELL ABANDONED			--	--	--	--	--	--
MW-8B --	--	--	--	--	WELL ABANDONED			--	--	--	--	--	--
MW-8C --	--	--	--	--	WELL ABANDONED			--	--	--	--	--	--
MW-8D --	--	--	--	--	WELL ABANDONED			--	--	--	--	--	--
MW-8E --	--	--	--	--	WELL ABANDONED			--	--	--	--	--	--
MW-8F 01/23/92	97.94	10.24	87.70	--	<50	1,300	4.0	1.3	<0.5	1.9	--	--	--
02/28/92	97.94	9.93	88.01	--	--	--	--	--	--	--	--	--	--
03/26/92	97.94	8.78	89.16	--	--	--	--	--	--	--	--	--	--
04/30/92	97.94	9.36	88.58	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/28/92	97.94	11.83	86.11	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--
11/19/92	97.94	11.22	86.72	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--
02/12/93	97.94	9.66	88.28	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/06/93	97.94	8.83	89.11	--	<50	<100	<0.5	<0.5	<0.5	<0.5	--	--	--
08/16/93	14.04	10.16	3.88	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
10/12/93	14.04	10.60	3.44	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
02/03/94	14.04	9.29	4.75	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	14.04	9.34	4.70	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
08/25/94	14.04	10.14	3.90	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/02/94	14.04	10.42	3.62	--	<50	520	<0.5	<0.5	<0.5	<0.5	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Texaco Service Station #211173
500 Grand Avenue
Oakland, CA

WELL ID/ DATE	TOC* (msl)	DTW (ft.)	GWE (msl)	SPH THICKNESS (ft.)	TPH- GRO (ug/L)	TPH- DRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE by 8020 (ug/L)	MTBE by 8260 (ug/L)	DO Reading (ppm)
MW-8F (cont)													
01/31/95	14.04	7.47	6.57	--	<50	290	<0.5	<0.5	<0.5	<0.5	--	--	--
05/18/95	14.04	8.00	6.04	--	<50	54	<0.5	<0.5	<0.5	<0.5	--	--	--
08/29/95	14.04	8.08	5.96	--	<50	83	<0.5	<0.5	<0.5	<0.5	<10	--	--
11/02/95	14.04	8.70	5.34	--	<50	51	<0.5	<0.5	<0.5	<0.5	<10	--	--
02/05/96	14.04	7.16	6.88	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
04/30/96	14.04	7.25	6.79	--	<50	62	<0.5	<0.5	<0.5	<0.5	--	--	--
08/28/96	14.04	8.72	5.32	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/05/96	14.04	8.16	5.88	--	210	110	17	17	11	46	<30	--	--
02/21/97	14.04	5.53	8.51	--	<50	85	<0.5	<0.5	<0.5	<0.5	<30	--	--
05/02/97	14.04	7.85	6.19	--	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	--	--
07/30/97	14.04	8.87	5.17	--	<50	93	<0.5	<0.5	<0.5	<0.5	<30	--	--
11/05/97	14.04	9.16	4.88	--	<50	140	<0.5	<0.5	<0.5	<0.5	<30	--	--
01/21/98	14.04	8.56	5.48	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--
06/03/98	14.04	8.30	5.74	--	<50	730	<0.5	<0.5	<0.5	<0.5	2.9	--	--
08/04/98	14.04	10.67	3.37	--	<50	210	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
11/05/98	14.04	8.72	5.32	--	<50	210	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
02/16/99	14.04	8.78	5.26	--	<50.0	230	<0.500	<0.500	<0.500	<0.500	<2.00	--	--
06/04/99	14.04	8.24	5.80	--	<50	120	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
08/31/99	14.04	8.87	5.17	--	<50.0	176	<0.500	<0.500	<0.500	<0.500	<2.50	--	1.7/1.4
11/03/99	14.04	9.40	4.64	--	<50.0	130	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	4.6/2.0
02/29/00	14.04	8.00	14.04	--	<50.0	59	<0.500	<0.500	<0.500	<0.500	<2.50	--	6.0/1.4
04/24/00	14.04	7.05	14.04	--	<50.0	161	<0.500	<0.500	<0.500	<0.500	<2.50	--	1.1/2.0
07/25/00	14.04	8.66	14.04	--	<50.0	123	<0.500	<0.500	<0.500	<0.500	<2.50	--	0.4/1.2
11/06/00	14.04	9.37	14.04	--	--	77.3 ^a	--	--	--	--	--	--	0.7/1.3
06/05/09 ^b	14.04	8.99	5.05	--	--	--	--	--	--	--	--	--	--
06/10/09 ^c	NP ^d	14.04	12.41	1.63	--	<50	300	<0.5	<0.5	<0.5	<0.5	<0.5	--
10/01/09 ^e	NP ^d	14.04	10.40	3.64	--	<50	81 ^a	<0.5	<0.5	<0.5	<0.5	<0.5	--

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Oakland, CA

WELL ID/ DATE	TOC* (msl)	DTW (ft.)	GWE (msl)	SPH THICKNESS (ft.)	TPH- GRO (ug/L)	TPH- DRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE by 8020 (ug/L)	MTBE by 8260 (ug/L)	DO Reading (ppm)
MW-8G													
01/23/92**	97.24	11.30	85.94	--	<50	980	<0.5	<0.5	<0.5	<0.5	--	--	--
02/28/92	97.24	10.83	86.41	--	--	--	--	--	--	--	--	--	--
03/26/92	97.24	9.20	88.04	--	--	--	--	--	--	--	--	--	--
04/30/92	97.24	9.00	88.24	--	<50	<50	1.7	<0.5	<0.5	<0.5	--	--	--
09/28/92	97.24	13.32	83.92	--	WELL DRY		--	--	--	--	--	--	--
11/19/92	97.24	--	--	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
02/12/93	97.24	--	--	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
05/06/93	97.24	11.18	86.06	--	<50	60	<0.5	<0.5	<0.5	<0.5	--	--	--
08/16/93	13.32	9.51	3.81	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
10/12/93	13.32	10.93	2.39	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
02/03/94	13.32	9.69	3.63	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	13.32	9.24	4.08	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
08/25/94	13.32	9.74	3.58	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/02/94	13.32	10.08	3.24	--	<50	530	<0.5	<0.5	<0.5	<0.5	--	--	--
01/31/95	13.32	5.75	7.57	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/18/95	13.32	6.60	6.72	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
08/29/95	13.32	8.14	5.18	--	<50	120	<0.5	<0.5	<0.5	<0.5	<10	--	--
11/02/95	13.32	9.16	4.16	--	<50	140	<0.5	<0.5	<0.5	<0.5	<10	--	--
02/05/96	13.32	7.18	6.14	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
04/30/96	13.32	7.00	6.32	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
08/28/96	13.32	8.94	4.38	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/05/96	13.32	9.22	4.10	--	190	37	16	16	9.0	39	<30	--	--
02/21/97	13.32	6.11	7.21	--	<50	54	<0.5	<0.5	<0.5	<0.5	<30	--	--
05/02/97	13.32	7.54	5.78	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
07/30/97	13.32	--	--	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
11/05/97	13.32	9.65	3.67	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--
11/05/97	13.32	--	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--
01/21/98	13.32	7.57	5.75	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--
06/03/98	13.32	9.37	3.95	--	<50	570	<0.5	<0.5	<0.5	<0.5	4.0	--	--
08/04/98	13.32	9.89	3.43	--	<50	200	<0.5	<0.5	<0.5	<0.5	<2.5	--	--

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Former Texaco Service Station #211173
500 Grand Avenue
Oakland, CA

WELL ID/ DATE	TOC ^a (msl)	DTW (ft.)	GWE (msl)	SPH THICKNESS (ft.)	TPH- GRO (ug/L)	TPH- DRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE by 8020 (ug/L)	MTBE by 8260 (ug/L)	DO Reading (ppm)
MW-8G (cont)													
11/05/98	13.32	10.81	2.51	--	<50	170	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
02/16/99	13.32	8.63	4.69	--	<50.0	270	<0.500	<0.500	<0.500	<0.500	<2.00	--	--
06/04/99	13.32	7.95	5.37	--	<50	190	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
08/31/99	13.32	9.11	4.21	--	<50.0	247	<0.500	<0.500	<0.500	<0.500	<2.50	--	4.5/1.3
11/03/99	13.32	9.58	3.74	--	<50.0	174	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	11.6/4.8
02/29/00	13.32	5.43	7.89	--	<50.0	90	<0.500	<0.500	<0.500	<0.500	<2.50	--	3.4/1.8
04/24/00	13.32	6.35	6.97	--	<50.0	72.4	<0.500	<0.500	<0.500	<0.500	<2.50	--	10.1/6.5
07/25/00	13.32	8.71	4.61	--	<50.0	79.2	<0.500	<0.500	<0.500	<0.500	<2.50	--	1.2/0.8
11/06/00	13.32	9.76	3.56	--	--	106 ^b	--	--	--	--	--	--	1.3/1.0
06/05/09 ¹	13.32	9.92	3.40	--	--	--	--	--	--	--	--	--	--
06/10/09 ⁴	NP ⁵	13.32	12.35	0.97	--	<50	140	<0.5	<0.5	<0.5	<0.5	<0.5	--
10/01/09 ⁴	NP ⁵	13.32	11.94	1.38	--	<50	55 ^b	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-8H													
01/23/92	98.90	3.74	95.16	--	110	<60	7.2	1.2	4.7	3.2	--	--	--
02/28/92	98.90	4.44	94.46	--	--	--	--	--	--	--	--	--	--
03/26/92	98.90	4.21	94.69	--	--	--	--	--	--	--	--	--	--
04/30/92	98.90	3.46	95.44	--	190	90	11	1.5	5.6	3.6	--	--	--
09/28/92	98.90	--	--	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
11/19/92	98.90	3.75	95.15	--	130	--	6.8	<0.5	1.1	1.5	--	--	--
02/12/93	98.90	4.12	94.78	--	73	--	5.9	<0.5	0.8	<0.5	--	--	--
05/06/93	98.90	3.85	95.05	--	57	<100	1.7	<0.5	<0.5	<0.5	--	--	--
08/16/93	15.04	3.88	11.16	--	<50	<50	0.5	<0.5	0.5	1.4	--	--	--
10/12/93	15.04	3.80	11.24	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
02/03/94	15.04	3.71	11.33	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	15.04	3.80	11.24	--	<50	<50	0.79	<0.5	<0.5	<0.5	--	--	--
08/25/94	15.04	3.89	11.15	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/02/94	15.04	3.64	11.40	--	<50	760	<0.5	<0.5	<0.5	<0.5	--	--	--
01/31/95	15.04	3.58	11.46	--	<50	190	<0.5	<0.5	<0.5	<0.5	--	--	--

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500 Grand Avenue
Oakland, CA

WELL ID/ DATE	TOC* (msl)	DTW (ft.)	GWE (msl)	SPH THICKNESS (ft.)	TPH- GRO (ug/L)	TPH- DRG (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE by 8030 (ug/L)	MTBE by 8260 (ug/L)	DO Reading (ppm)
MW-8H (cont)													
05/18/95	15.04	3.53	11.51	--	<50	370	<0.5	<0.5	<0.5	<0.5	--	--	--
08/29/95	15.04	3.55	11.49	--	<50	1,000	<0.5	<0.5	<0.5	<0.5	--	--	--
11/02/95	15.04	3.49	11.55	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
02/05/96	15.04	3.54	11.50	--	<50	190	<0.5	<0.5	<0.5	<0.5	--	--	--
04/30/96	15.04	3.50	11.54	--	<50	1,800	<0.5	<0.5	<0.5	<0.5	--	--	--
08/28/96	15.04	3.62	11.42	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/05/96	15.04	3.38	11.66	--	100	350	6.2	7.3	5.0	22	<30	--	--
02/21/97	15.04	3.77	11.27	--	<50	900	<0.5	<0.5	<0.5	<0.5	<30	--	--
05/02/97	15.04	3.64	11.40	--	<50	450	<0.5	<0.5	<0.5	<0.5	--	--	--
07/30/97	15.04	3.65	11.39	--	<50	180	<0.5	0.62	<0.5	<0.5	<30	--	--
11/05/97	15.04	3.61	11.43	--	<50	280	<0.5	<0.5	<0.5	<0.5	<30	--	--
01/21/98	15.04	3.57	11.47	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--
06/03/98	15.04	3.50	11.54	--	<50	440	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
08/04/98	15.04	3.64	11.40	--	<50	300	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
11/03/99	15.04	3.49	11.55	--	<50.0	576	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	--
04/24/00	15.04	3.63	11.41	--	<50.0	53.8	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
07/25/00	15.04	3.54	11.50	--	<50.0	90.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
11/06/00	15.04	3.49	11.55	--	--	433 ⁴	--	--	--	--	--	--	--
06/05/09 ¹	15.04	3.91	11.13	--	--	--	--	--	--	--	--	--	--
06/10/09 ⁴	15.04	3.66	11.38	--	<50	78	<0.5	<0.5	<0.5	<0.5	--	0.7	--
10/01/09 ⁴	NP ⁷	15.04	4.04	11.00	--	<50	640 ⁴	<0.5	<0.5	<0.5	<0.5	1	--
MW-8I													
01/23/92	98.27	6.33	91.94	--	820	210	420	7	27	20	--	--	--
02/28/92	98.27	6.55	91.72	--	--	--	--	--	--	--	--	--	--
03/26/92	98.27	6.45	91.82	--	--	--	--	--	--	--	--	--	--
04/30/92	98.27	6.48	91.79	--	2,200	430	1,800	19	180	25	--	--	--
09/28/92	98.27	--	--	--	WELL INACCESSIBLE			--	--	--	--	--	--
11/19/92	98.27	6.37	91.90	--	720	--	120	1.1	29	13	--	--	--

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WELL ID/ DATE	TOC* (msl)	DTW (ft.)	GWE (msl)	SPH THICKNESS (ft.)	TPH- GRO (ug/L)	TPH- DRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE by 8020 (ug/L)	MTBE by 8250 (ug/L)	DO Reading (ppm)
MW-8I (cont)													
02/12/93	98.27	6.44	91.83	--	4,000	--	970	9.2	52	36	--	--	--
05/06/93	98.27	6.36	91.91	--	1,400	<10	370	2.4	40	8.4	--	--	--
08/16/93	14.40	6.35	8.05	--	<50	<50	3.1	<0.5	6	<0.5	--	--	--
10/12/93	14.40	5.99	8.41	--	<50	<50	1.4	<0.5	<0.5	<0.5	--	--	--
02/03/94	14.40	5.84	8.56	--	1,000	<50	270	3.2	51	14	--	--	--
05/31/94	14.40	6.25	8.15	--	1,400	<50	330	4.6	52	16	--	--	--
08/25/94	14.40	6.31	8.09	--	540	<50	14	0.58	30	4.3	--	--	--
11/02/94	14.40	6.10	8.30	--	310	370	5.7	0.74	20	<0.5	--	--	--
01/31/95	14.40	5.83	8.57	--	840	910	290	4.5	45	1.6	--	--	--
05/18/95	14.40	6.09	8.31	--	1,700	1100	390	7.8	80	10	--	--	--
08/29/95	14.40	6.09	8.31	--	300	560	81	<0.5	13	0.63	<10	--	--
11/02/95	14.40	6.26	8.14	--	81	160	<0.5	4.1	1.5	<0.5	<10	--	--
02/05/96	14.40	5.97	8.43	--	300	140	75	0.75	8.4	1.2	--	--	--
04/30/96	14.40	6.04	8.36	--	350	<50	150	0.77	3.2	1.3	--	--	--
08/28/96	14.40	6.20	8.20	--	1,100	380	300	2.9	3.2	2.1	--	--	--
12/05/96	14.40	6.01	8.39	--	340	53	23	8.7	11	26	<30	--	--
02/21/97	14.40	6.15	8.25	--	<50	330	<0.5	<0.5	<0.5	<0.5	<30	--	--
05/02/97	14.40	6.20	8.20	--	110	<50	39	<0.5	0.92	<0.5	--	--	--
07/30/97	14.40	6.12	8.28	--	<50	170	4.2	<0.5	<0.5	<0.5	<30	--	--
11/05/97	14.40	6.26	8.14	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--
01/21/98	14.40	6.00	8.40	--	<50	<50	1.5	<0.5	<0.5	<0.5	<30	--	--
06/03/98	14.40	6.74	7.66	--	<50	360	<0.5	<0.5	<0.5	<0.5	1.5	--	--
08/04/98	14.40	6.16	8.24	--	<50	83	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
11/05/98	14.40	6.14	8.26	--	<50	67	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
08/31/99	14.40	6.12	8.28	--	--	--	--	--	--	--	--	--	--
11/03/99	14.40	6.45	7.95	--	<50.0	192	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	7.15/9.6
02/29/00	14.40	5.69	8.71	--	--	--	--	--	--	--	--	--	11.1
04/24/00	14.40	6.25	8.15	--	<50.0	69.2	<0.500	<0.500	<0.500	<0.500	<2.50	--	7.1/5.6
07/25/00	14.40	6.22	8.18	--	<50.0	80.1	<0.500	<0.500	<0.500	<0.500	<2.50	--	1.4/1.2
11/06/00	14.40	6.34	8.06	--	--	157 ^a	--	--	--	--	--	--	1.5/1.1

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MW-8I (cont)													
06/05/09	14.40	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
06/10/09 ^{1,4}	14.40	6.31	8.09	--	420	360	23	<0.5	<0.5	<0.5	--	5	--
10/01/09 ⁴	NP ⁷	6.41	7.99	--	53	92 ^a	2	<0.5	<0.5	<0.5	--	4	--
MW-8J													
01/23/92	97.69	6.31	91.38	--	<50	<50	1	<0.5	<0.5	<0.5	--	--	--
02/28/92	97.69	6.28	91.41	--	--	--	--	--	--	--	--	--	--
03/26/92	97.69	6.20	91.49	--	--	--	--	--	--	--	--	--	--
04/30/92	97.69	6.48	91.21	--	<50	<50	2	<0.5	<0.5	<0.5	--	--	--
09/28/92	97.69	--	--	--	WELL INACCESSIBLE			--	--	--	--	--	--
11/19/92	97.69	6.55	91.14	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--
02/12/93	97.69	7.46	90.23	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--
05/06/93	97.69	6.21	91.48	--	<50	<10	<0.5	<0.5	<0.5	<0.5	--	--	--
08/16/93	13.82	6.29	7.53	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
10/12/93	13.82	5.87	7.95	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
02/03/94	13.82	5.98	7.84	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	13.82	6.10	7.72	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
08/25/94	13.82	6.01	7.81	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/02/94	13.82	5.90	7.92	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
01/31/95	13.82	5.07	8.75	--	<50	<50	3.7	<0.5	<0.5	<0.5	--	--	--
05/18/95	13.82	5.33	8.49	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
08/29/95	13.82	3.50	10.32	--	<50	250	<0.5	<0.5	<0.5	<0.5	<10	--	--
11/02/95	13.82	5.94	7.88	--	<50	520	<0.5	<0.5	<0.5	<0.5	<10	--	--
02/05/96	13.82	5.34	8.48	--	<50	65	<0.5	<0.5	<0.5	<0.5	--	--	--
04/30/96	13.82	5.96	7.86	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
08/28/96	13.82	6.38	7.44	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/05/96	13.82	5.94	7.88	--	160	<50	13	14	8.9	38	<30	--	--
02/21/97	13.82	5.60	8.22	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--
05/02/97	13.82	6.22	7.60	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--

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WELL ID/ DATE	TOC* (msl)	DTW (ft.)	GWE (msl)	SPH THICKNESS (ft.)	TPH- GRO (ug/L)	TPH- DRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE by 8020 (ug/L)	MTBE by 8260 (ug/L)	DO Reading (ppm)
MW-8J (cont)													
07/30/97	13.82	6.28	7.54	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--
11/05/97	13.82	6.03	7.79	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--
01/21/98	13.82	5.71	8.11	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--
06/03/98	13.82	5.45	8.37	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
08/04/98	13.82	5.93	7.89	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
11/05/98	13.82	6.05	7.77	--	<50	<50	2.0	<0.50	<0.50	<0.50	<2.5	--	--
11/03/99	13.82	5.84	7.98	--	<50.0	58.9	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	--
04/24/00	13.82	5.58	8.24	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
07/25/00	13.82	5.89	7.93	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
11/06/00	13.82	6.24	7.58	--	--	<50.0*	--	--	--	--	--	--	--
06/05/09 ¹	13.82	6.59	7.23	--	--	--	--	--	--	--	--	--	--
06/10/09 ⁴	13.82	6.41	7.41	--	<50	400	<0.5	<0.5	<0.5	<0.5	--	10	--
10/01/09 ⁴	NP ²	6.78	7.04	--	<50	<50*	<0.5	<0.5	<0.5	<0.5	--	<0.5	--
MW-8K													
05/21/93	15.18	--	--	--	54	<50	12	<0.5	<0.5	<0.5	--	--	--
08/16/93	15.18	2.08	13.10	--	<50	<50	<0.5	<0.5	1.0	<0.5	--	--	--
10/12/93	15.18	1.95	13.23	--	<50	<50	4.2	<0.5	<0.5	<0.5	--	--	--
01/03/94	15.18	1.48	13.70	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	15.18	1.59	13.59	--	<50	<50	1.0	0.57	<0.5	<0.5	--	--	--
08/25/94	15.18	2.00	13.18	--	<50	<50	0.78	<0.5	<0.5	<0.5	--	--	--
11/02/94	15.18	2.10	13.08	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
01/31/95	15.18	1.35	13.83	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
08/18/95	15.18	1.36	13.82	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
08/29/95	15.18	1.55	13.63	--	<50	160	<0.5	<0.5	<0.5	<0.5	<10	--	--
11/02/95	15.18	1.88	13.30	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<10	--	--
02/05/96	15.18	1.46	13.72	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
04/30/96	15.18	1.43	13.75	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
08/28/96	15.18	1.75	13.43	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--

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WELL ID/ DATE	TOC* (msl)	DTW (ft.)	GWE (msl)	SPH THICKNESS (ft.)	TPH- GRO (ug/L)	TPH- DRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE by 8020 (ug/L)	MTBE by 8260 (ug/L)	DO Reading (ppm)
MW-8K (cont)													
12/05/96	15.18	1.42	13.76	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--
02/21/97	15.18	1.49	13.69	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--
05/02/97	15.18	1.60	13.58	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
07/30/97	15.18	1.66	13.52	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--
11/05/97	15.18	1.62	13.56	--	<50	300	<0.5	<0.5	<0.5	<0.5	<30	--	--
01/21/98	15.18	1.29	13.89	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--
06/03/98	15.18	1.17	14.01	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
08/04/98	15.18	1.21	13.97	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
11/05/98	15.18	2.30	12.88	--	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
11/03/99	15.18	1.63	13.55	--	<50.0	270	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	--
04/24/00	15.18	1.25	13.93	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
07/25/00	15.18	1.38	13.80	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
11/06/00	15.18	11.38	3.80	--	--	53.2 ^a	--	--	--	--	--	--	--
06/05/09 ¹	15.18	1.18	14.00	--	--	--	--	--	--	--	--	--	--
06/10/09 ⁴	15.18	1.31	13.87	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	2	--
10/01/09 ⁴	15.18	1.85	13.33	--	<50	<50 ^a	<0.5	<0.5	<0.5	<0.5	--	1	--
MW-8L													
05/21/93	14.44	--	--	--	76	<50	1.1	<0.5	<0.5	6	--	--	--
08/16/93	14.44	2.47	11.97	--	<50	<50	<0.5	<0.5	0.7	1.1	--	--	--
10/12/93	14.44	2.36	12.08	--	110	<50	13	<0.5	6	<0.5	--	--	--
01/03/94	14.44	2.82	11.62	--	590	<50	61	2.4	<0.5	110	--	--	--
05/31/94	14.44	2.66	11.78	--	410	<50	77	<0.5	20	1.1	--	--	--
08/25/94	14.44	2.34	12.10	--	260	<50	16	<0.5	2.5	<0.5	--	--	--
11/02/94	14.44	--	--	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
01/31/95	14.44	0.08	14.36	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
08/18/95	14.44	0.42	14.02	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
08/29/95	14.44	--	--	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
11/02/95	14.44	--	--	--	WELL INACCESSIBLE		--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Texaco Service Station #211173
500 Grand Avenue
Oakland, CA

WELL ID/ DATE	TOC* (msl)	DTW (ft)	GWE (msl)	SPH THICKNESS (ft)	TPH- GRO (ug/L)	TPH- DRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE by 8020 (ug/L)	MTBE by 8260 (ug/L)	DO Reading (ppm)
MW-8L (cont)													
02/05/96	14.44	--	--	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
04/30/96	14.44	--	--	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
08/28/96	14.44	0.75	13.69	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
12/05/96	14.44	--	--	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
02/21/97	14.44	--	--	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
05/02/97	14.44	0.60	13.84	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
07/30/97	14.44	--	--	--	WELL INACCESSIBLE		--	--	--	--	--	--	--
11/05/97	14.44	0.67	13.77	--	--	--	--	--	--	--	--	--	--
01/21/98	14.44	--	--	--	--	--	--	--	--	--	--	--	--
06/05/09 ^{2,3}	14.44	0.90	13.54	--	--	--	--	--	--	--	--	--	--
06/10/09 ^{1,2,4}	NP ⁶ 14.44	0.91	13.53	--	<50	2,600	<0.5	<0.5	<0.5	<0.5	--	<0.5	--
10/01/09	14.44	OBSTRUCTION IN WELL		--	--	--	--	--	--	--	--	--	--
TRIP BLANK													
QA													
06/10/09	--	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	<0.5	--
DISCONTINUED													

Table 1
Groundwater Monitoring Data and Analytical Results
Former Texaco Service Station #211173
500 Grand Avenue
Oakland, CA

Data prior to June 5, 2009, compiled from Blaine Tech Reports.

EXPLANATIONS:

TOC = Top of Casing Elevation

ft = Feet

GWE = Groundwater Elevation

msl = Mean sea level

DTW = Depth to Water

SPH = Separate-Phase Hydrocarbons

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl Tertiary Butyl Ether

ug/L = parts per billion

ppm = parts per million

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

D = Duplicate sample

DO = Dissolved Oxygen

ANALYTICAL METHODS:

TPH-GRO by modified EPA Method 8015

TPH-DRO by modified EPA Method 8015

Benzene, Toluene, Ethylbenzene, Xylenes by EPA Method 8020

* New well elevation survey performed at wells MW-8F through MW-8L on August 16, 1993, based on mean sea level (MSL). Prior data based on arbitrary site data.

** Non-diesel mix >C16. The certified analytical report for sample MW-8G was revised on October 21, 1993.

^a TPH-DRO with Silica Gel Cleanup.

¹ Well Development performed.

² Casing bent, see field sheet for additional information.

³ Attempted well development.

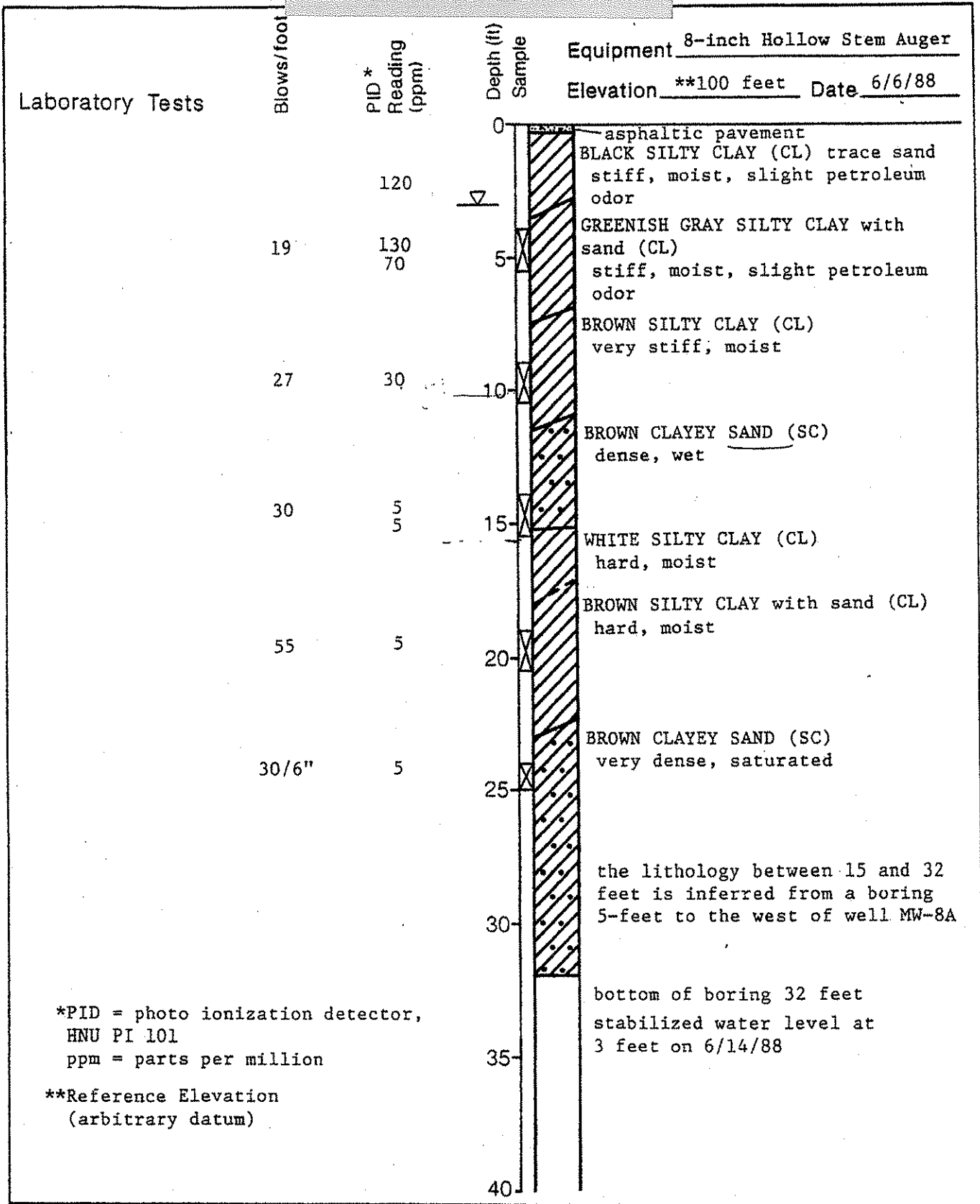
⁴ BTEX analyzed by EPA Method 8260.

⁵ No purge due to insufficient water.

⁶ No purge due to bent well casing.

⁷ No purge due to traffic control constraints.

ATTACHMENT 7



*PID = photo ionization detector,
HNU PI 101
ppm = parts per million

**Reference Elevation
(arbitrary datum)



Harding Lawson Associates
Engineers, Geologists
& Geophysicists

Log of Boring MW-8A

Texaco Station - 62488000235
500 Grand Avenue
Oakland, California

PLATE

3

DRAWN
RS

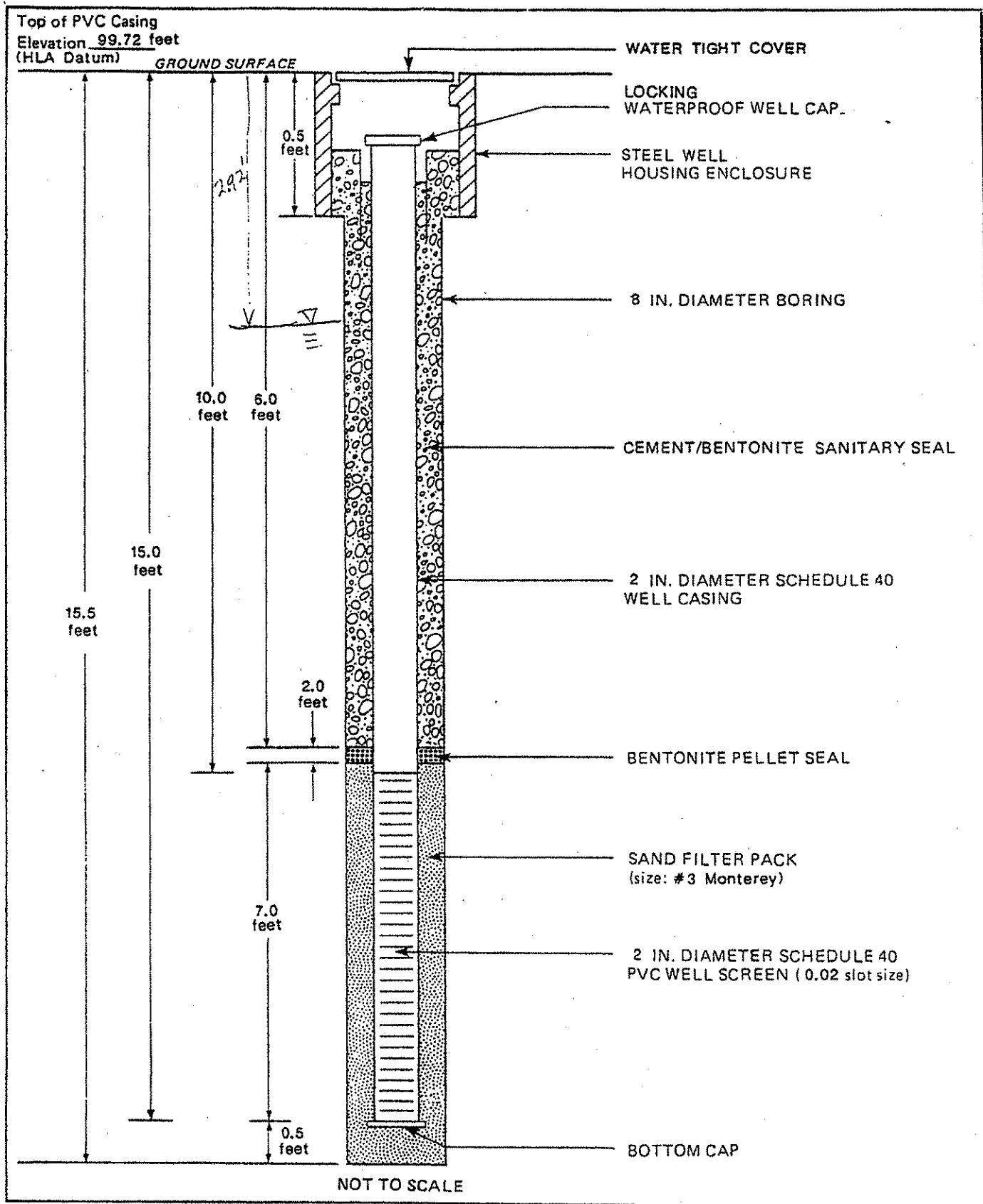
JOB NUMBER
2251,054.04

APPROVED
40

DATE
7/88

REVISED

DATE



Harding Lawson Associates
 Engineers, Geologists
 & Geophysicists

**Monitoring Well MW-8A
 Completion Detail**
 Texaco Station - 62488000235
 500 Grand Avenue
 Oakland, California

PLATE

8

DRAWN RS	JOB NUMBER 2251,054.04	APPROVED JO	DATE 7/88	REVISED	DATE
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FORM GW3

Laboratory Tests

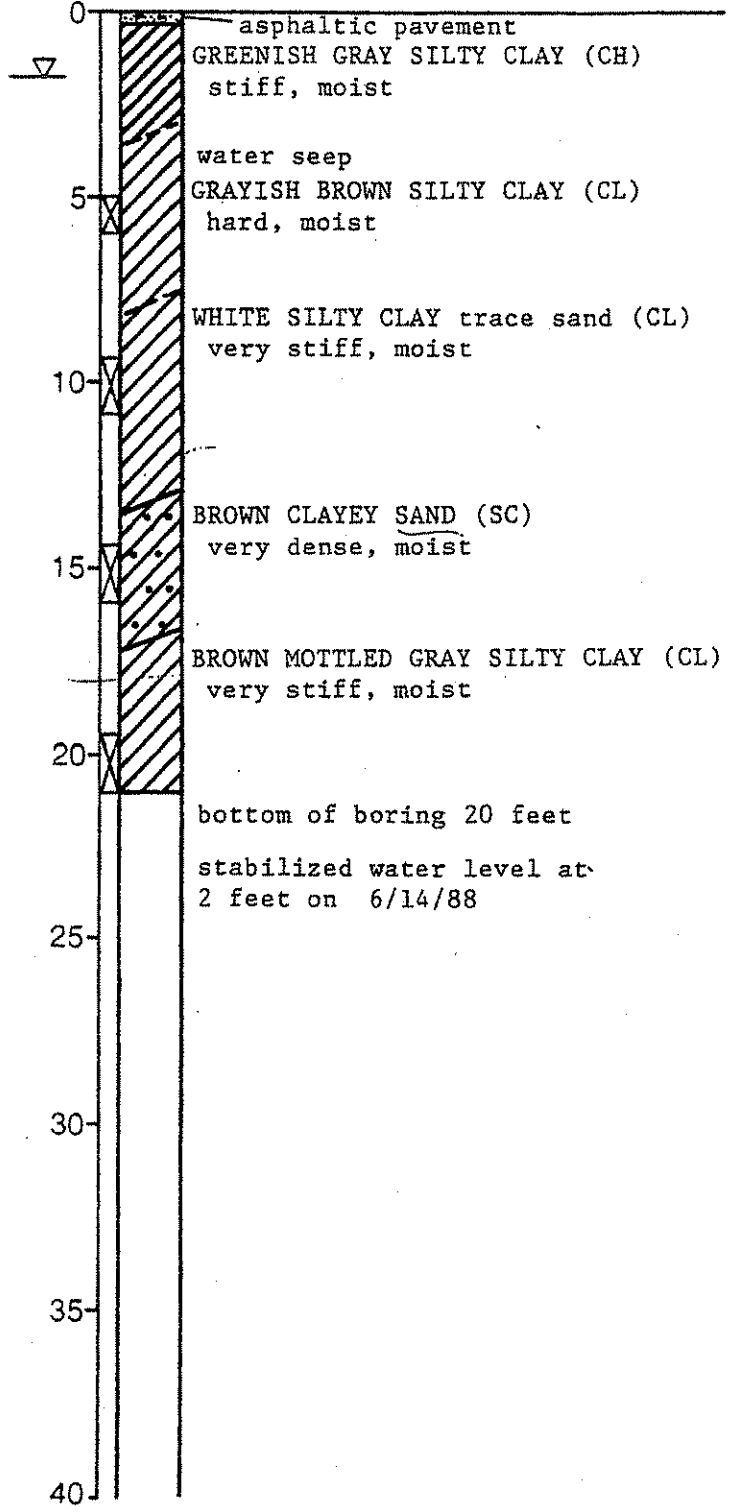
**
Blows/foot

PID *
Reading
(ppm)

Depth (ft)
Sample

Equipment 8-inch Hollow Stem Auger

Elevation ***101.5 feet Date 6/7/88



17/6"

70

28

30

27/6"

10

15

20

*PID = photo ionization detector,
HNU PI 101
ppm = parts per million

**S&H Sampler blow counts converted
to SPT blow counts.

***Reference Elevation
(arbitrary datum)



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Log of Boring MW-8B

Texaco Station - 62488000235
500 Grand Avenue
Oakland, California

PLATE

4

DRAWN
RS

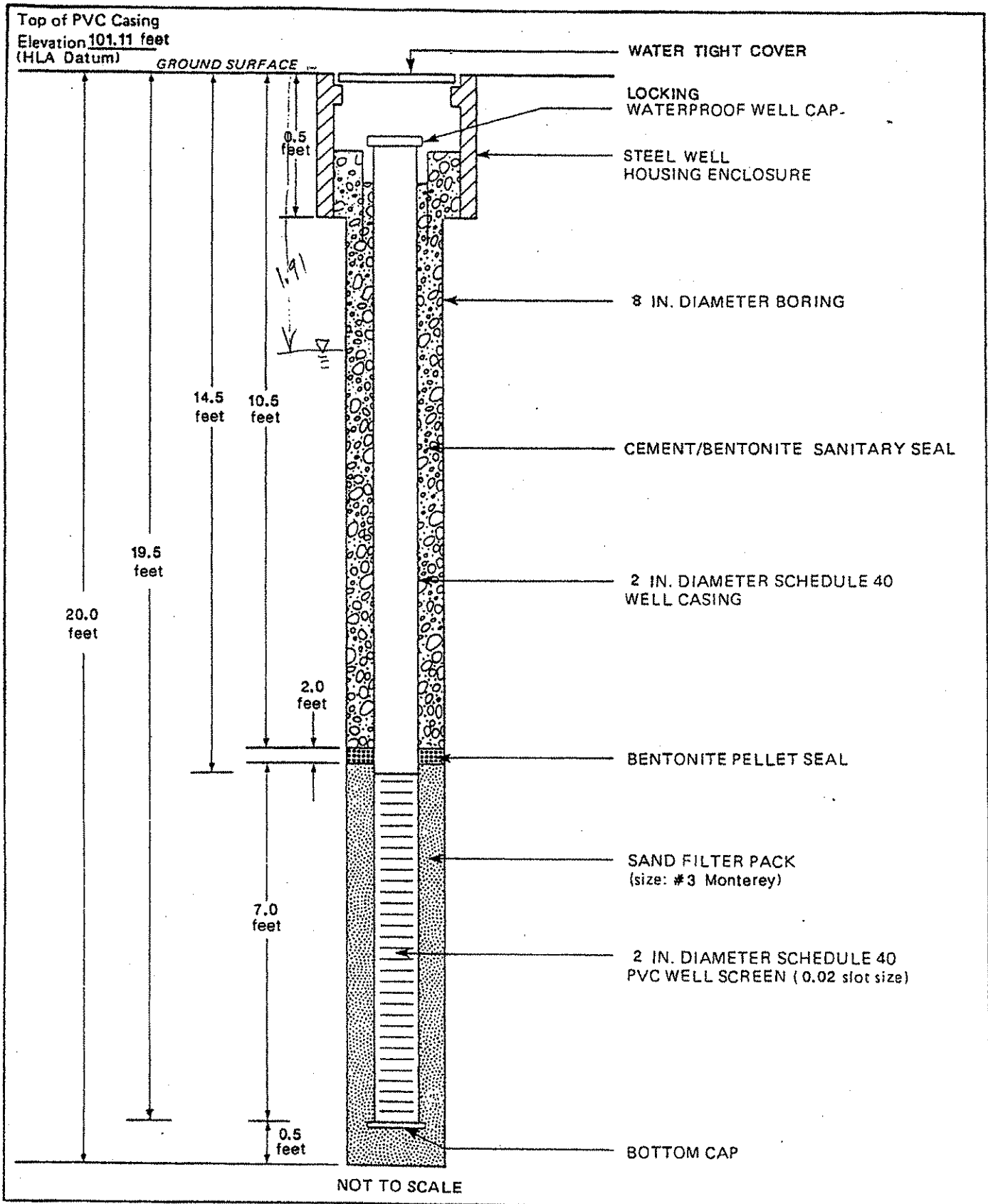
JOB NUMBER
2251,054.04

APPROVED
40

DATE
7/88

REVISED

DATE



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 & Geophysicists

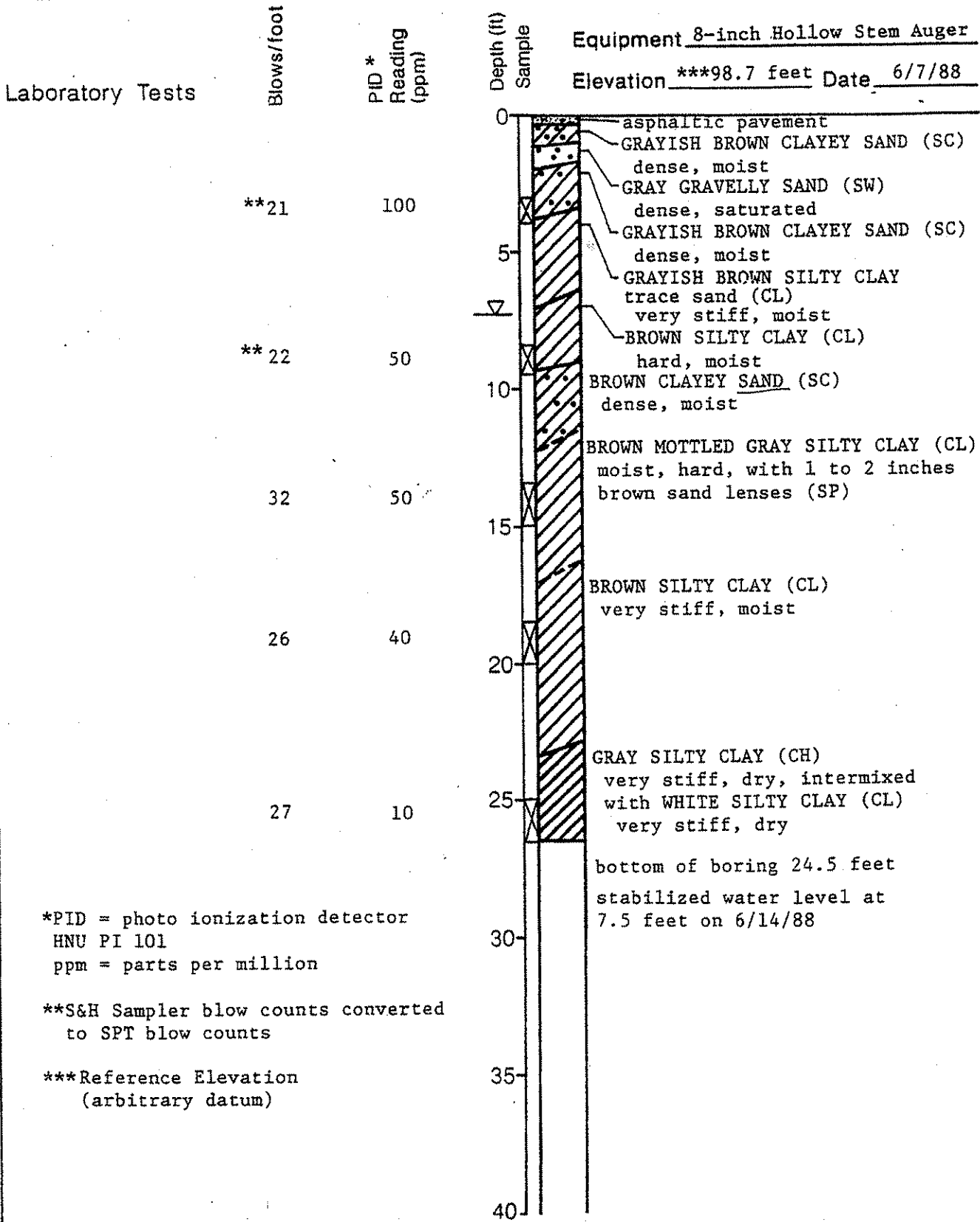
**Monitoring Well MW-8B
 Completion Detail**
 Texaco Station - 62488000235
 500 Grand Avenue
 Oakland, California

PLATE

9

DRAWN RS	JOB NUMBER 2251,054.04	APPROVED 40	DATE 7/88	REVISED	DATE
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FORM GW3

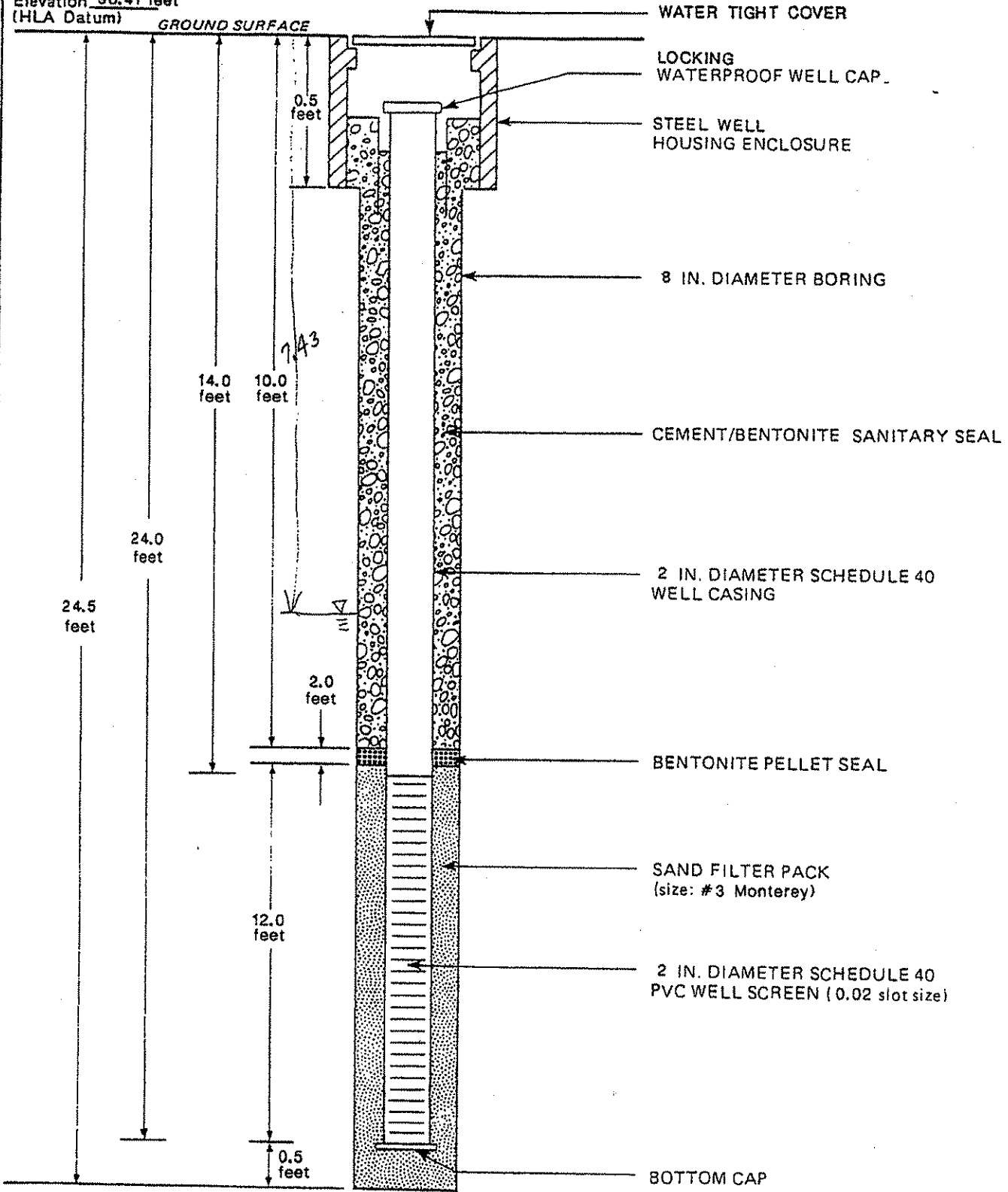


*PID = photo ionization detector
 HNU PI 101
 ppm = parts per million

**S&H Sampler blow counts converted
 to SPT blow counts

***Reference Elevation
 (arbitrary datum)

Top of PVC Casing
 Elevation 98.41 feet
 (HLA Datum)



NOT TO SCALE

Harding Lawson Associates
 Engineers Geologists
 & Geophysicists

Monitoring Well MW-8C
Completion Detail
 Texaco Station - 62488000235
 500 Grand Avenue
 Oakland, California

10

DRAWN RS	JOB NUMBER 2251,054.04	APPROVED JO	DATE 7/88	REVISED	DATE
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FORM GW3

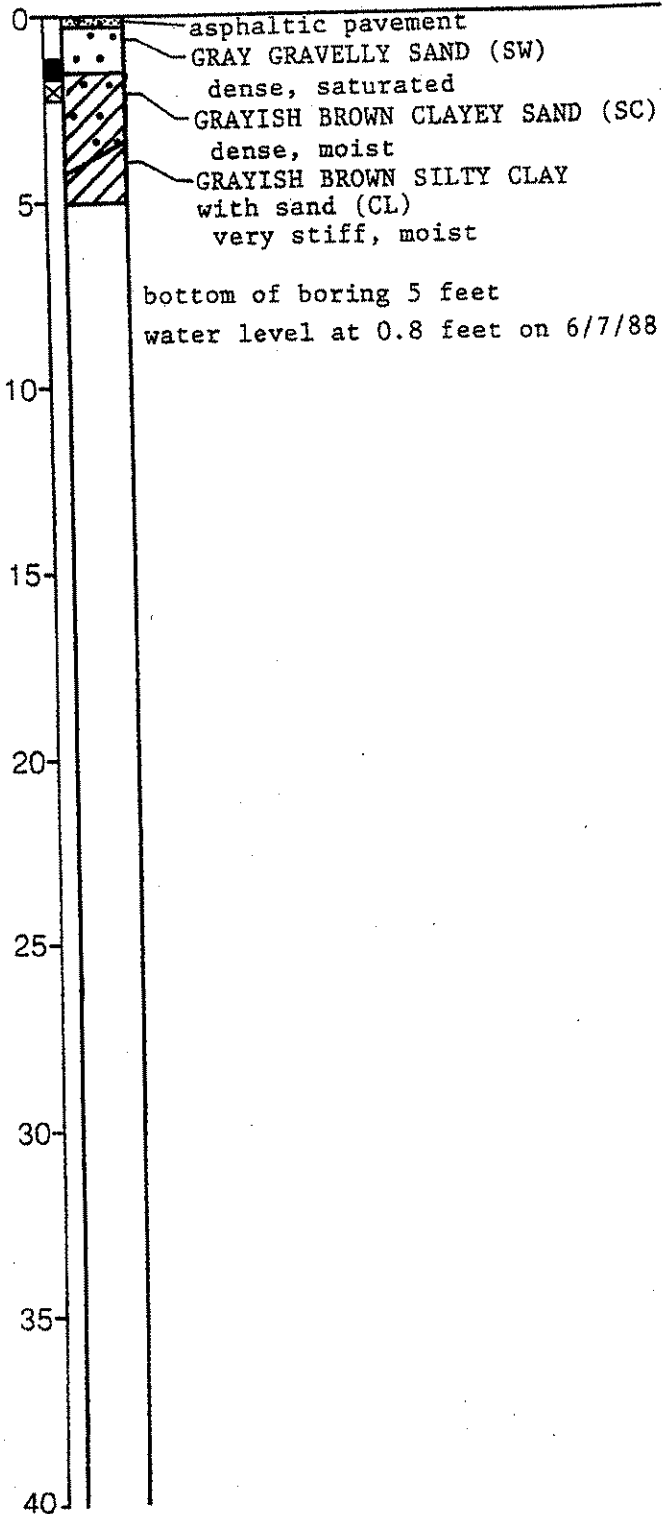
Laboratory Tests

** Blows/foot
21

PID* Reading (ppm)
170

Depth (ft)
Sample

Equipment 8-inch Hollow Stem Auger
Elevation ***98± feet Date 6/7/88



■ Sample kept for testing

*PID = photo ionization detector
HNU PI 101
ppm = parts per million

**S&H Sampler blow counts converted to SPT blow counts.

*** Reference Elevation (arbitrary datum)



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Engineers, Geologists
& Geophysicists

Log of Boring MW-8D
Texaco Station - 62488000235
500 Grand Avenue
Oakland, California

PLATE

6

DRAWN
RS

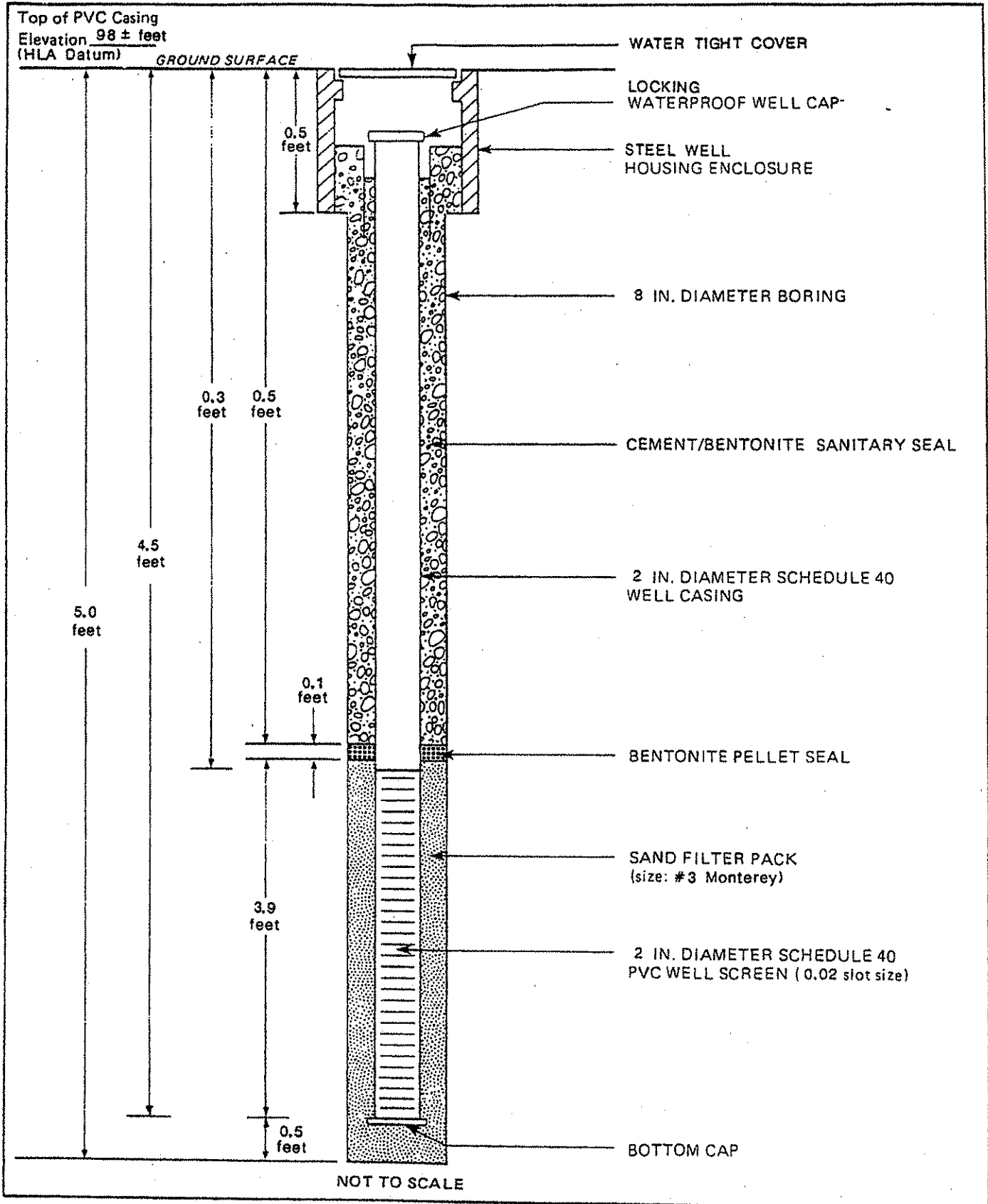
JOB NUMBER
2251,054.04

APPROVED
40

DATE
7/88

REVISED

DATE



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& Geophysicists

**Monitoring Well MW-8D
Completion Detail**
Texaco Station - 62488000235
500 Grand Avenue
Oakland, California

PLATE

11

DRAWN RS	JOB NUMBER 2251,054.04	APPROVED AO	DATE 7/88	REVISED	DATE
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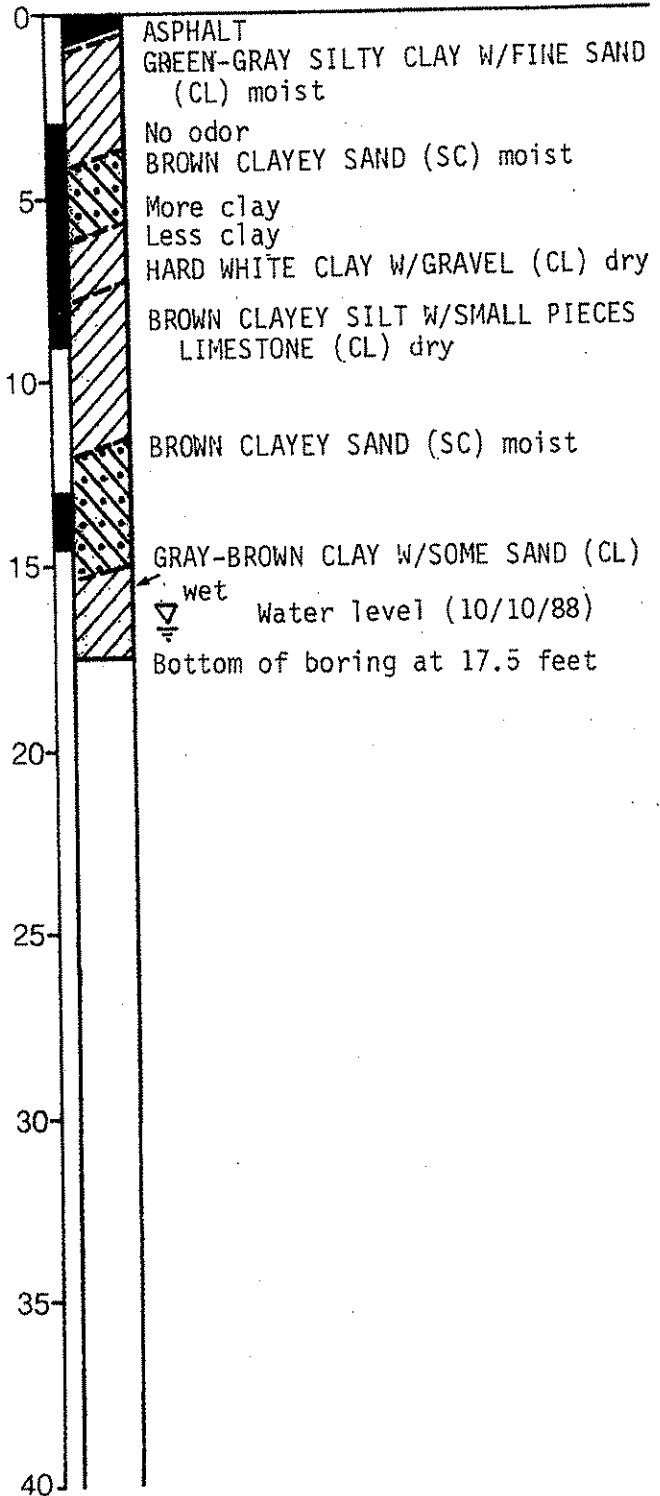
FORM 3/W3

Laboratory Tests

Blows/foot*	TIP (ppm**)
35	6
29	1
43	300
63	250
	5
	6
30	ND
50	ND
26	ND

Equipment Hollow Stem Auger
 Elevation 99.5*** Date 10/10/88

Depth (ft)
Sample



* S&H Sampler Blow Counts
 Converted to SPT Blow
 Counts

** Parts Per Million

***HLA Project Datum



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 Engineers, Geologists
 & Geophysicists

Log of Boring B-1

Former Texaco Service Station
 500 Grand Avenue
 Oakland, California

PLATE

5

DRAWN
 YC

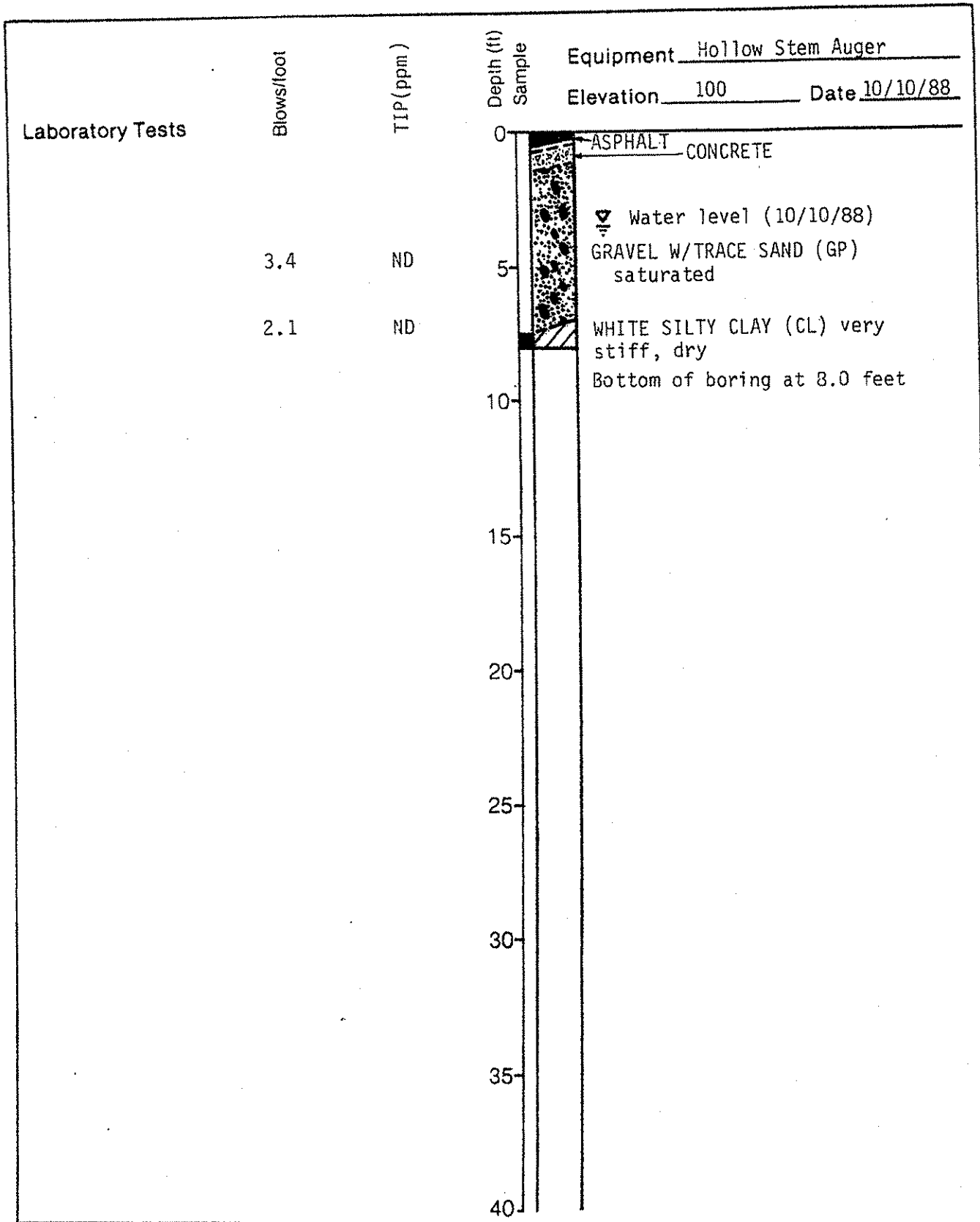
JOB NUMBER
 2251,081.03

APPROVED
 SJD

DATE
 11/88

REVISED

DATE

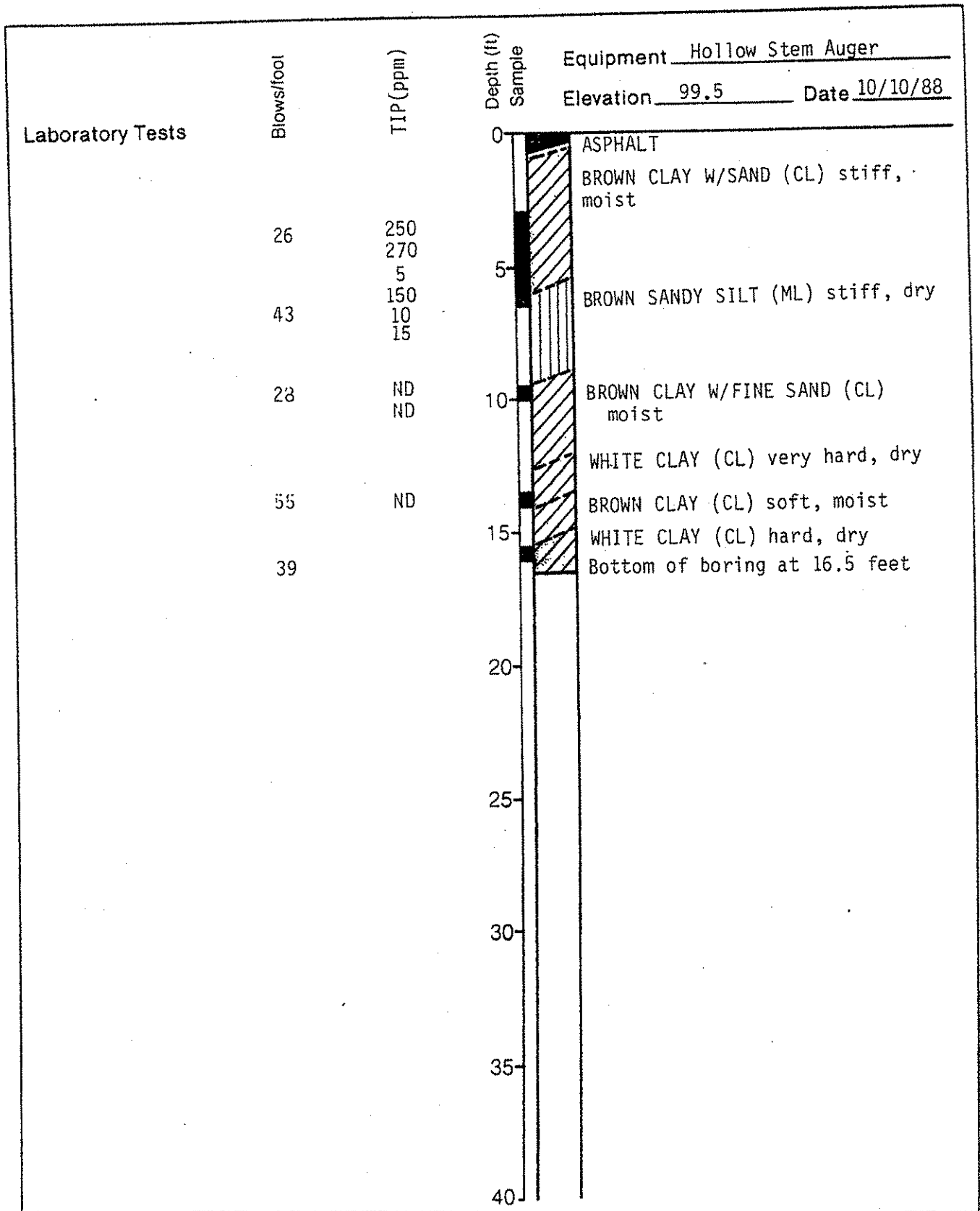


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 & Geophysicists

Log of Boring B-2
 Former Texaco Service Station
 500 Grand Avenue
 Oakland, California

PLATE
6

DRAWN YC	JOB NUMBER 2251,081.03	APPROVED SJD	DATE 11/88	REVISED	DATE
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Harding Lawson Associates
 Engineers, Geologists
 & Geophysicists

Log of Boring B-3
 Former Texaco Service Station
 500 Grand Avenue
 Oakland, California

Dr. ATC
7

DRAWN YC	JOB NUMBER 2251,081.03	APPROVED SDD	DATE 11/88	REVISED	DATE
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Laboratory Tests

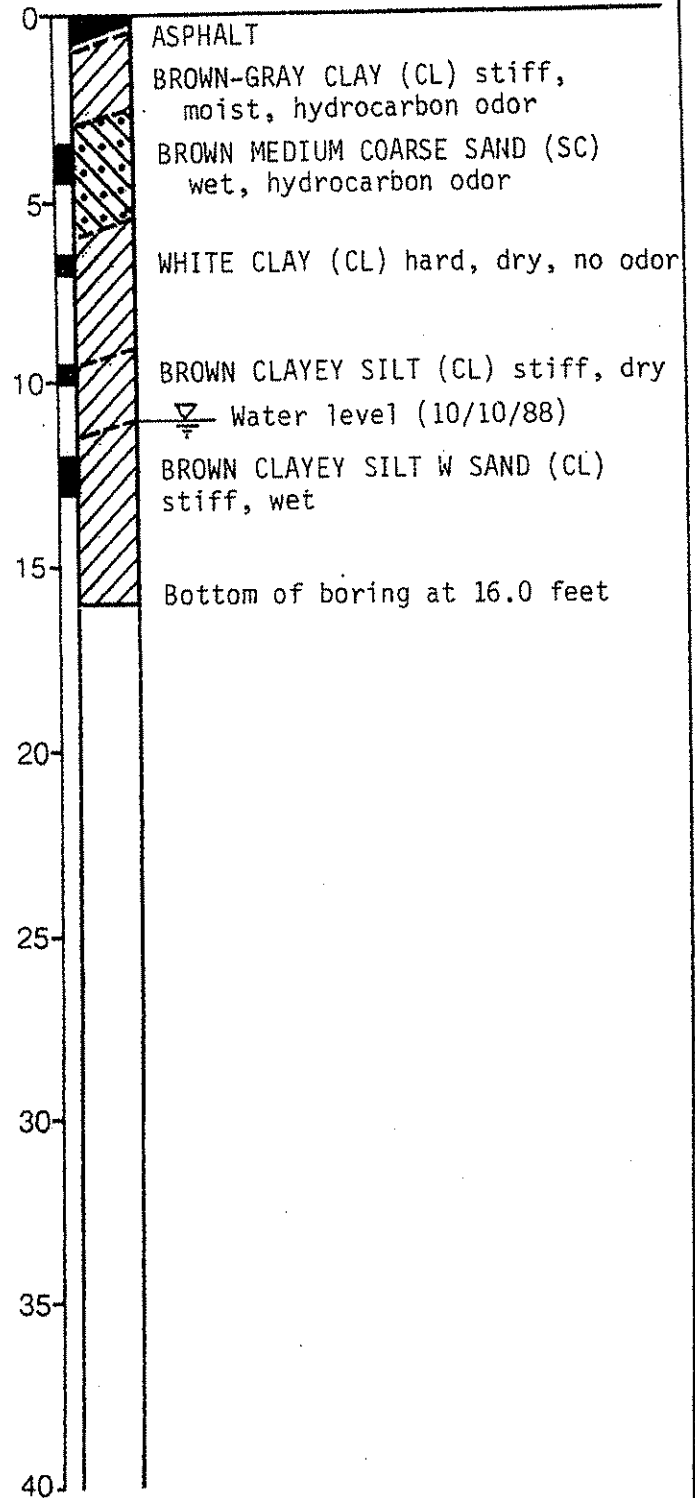
Blows/foot

TIP (ppm)

Depth (ft)
Sample

Equipment Hollow Stem Auger

Elevation 98.6 Date 10/10/88



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Engineers, Geologists
& Geophysicists

Log of Boring B-4
Former Texaco Service Station
500 Grand Avenue
Oakland, California

PLATE
8

DRAWN
YC

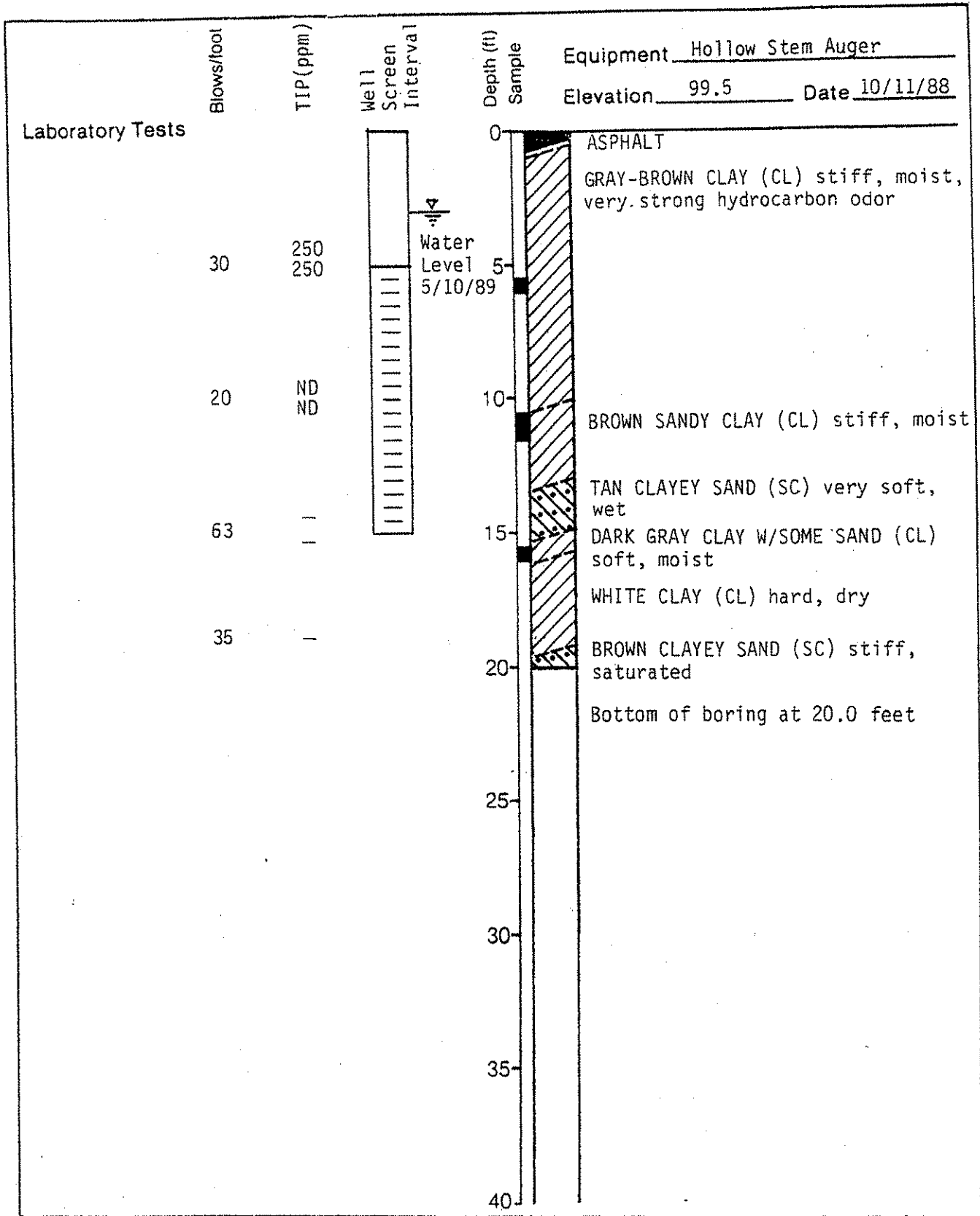
JOB NUMBER
2251,081.03

APPROVED
SJD

DATE
11/88

REVISED

DATE



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Log of Monitoring Well MW-8E
Former Texaco Service Station
500 Grand Avenue
Oakland, California

PLATE

10

DRAWN
YC

JOB NUMBER
2251,081.03

APPROVED
JSD

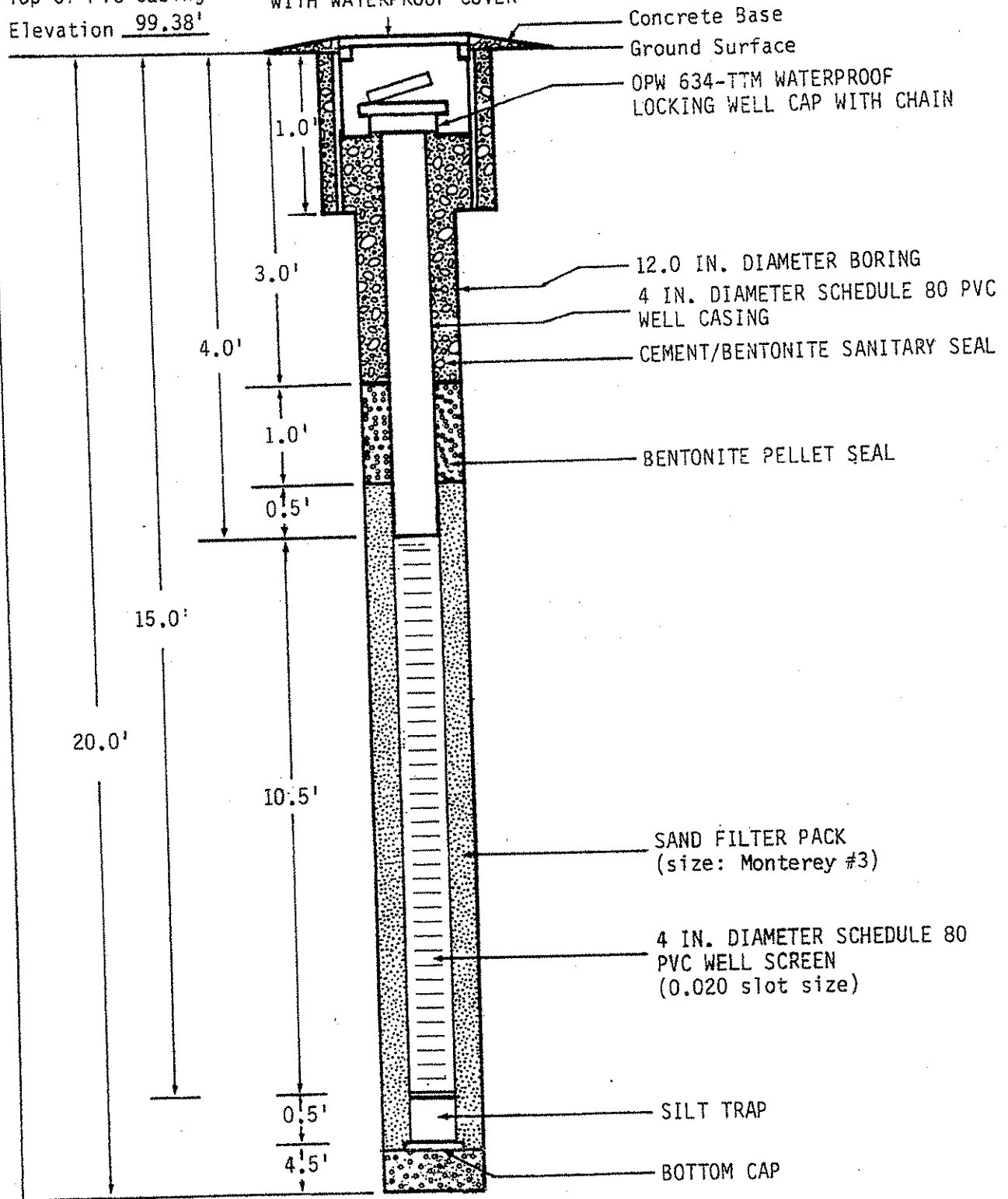
DATE
11/88

REVISED

DATE

Top of PVC Casing
Elevation 99.38'

12" EMCO WHEATON A-721 MANHOLE
WITH WATERPROOF COVER



NOT TO SCALE



Harding Lawson Associates
Engineers and Geoscientists

Well Construction Diagram MW-8E
Former Texaco Service Station
500 Grand Avenue
Oakland, California

PLATE

13

DRAWN
YC

JOB NUMBER
2251,081.03

APPROVED
SJD

DATE
12/88

REVISED

DATE

LOG OF BORING B-5
 Equipment Hollow Stem Auger
 Elevation 100 Date 3/2/89

Blows/
foot

HNu (ppm)

20 0

26 0

65 0

Depth (ft)

0

5

10

15

20

25

30

35

40

Asphalt

Baserock

MOTTLED GRAY BROWN LEAN CLAY WITH SAND (CL), medium stiff, moist

MOTTLED LIGHT BROWN LEAN CLAY WITH SAND (CL), very stiff, moist

MOTTLED LIGHT BROWN CLAYEY SAND (SM), very dense, moist, calcified cementation

Bottom of boring at 16.5 feet



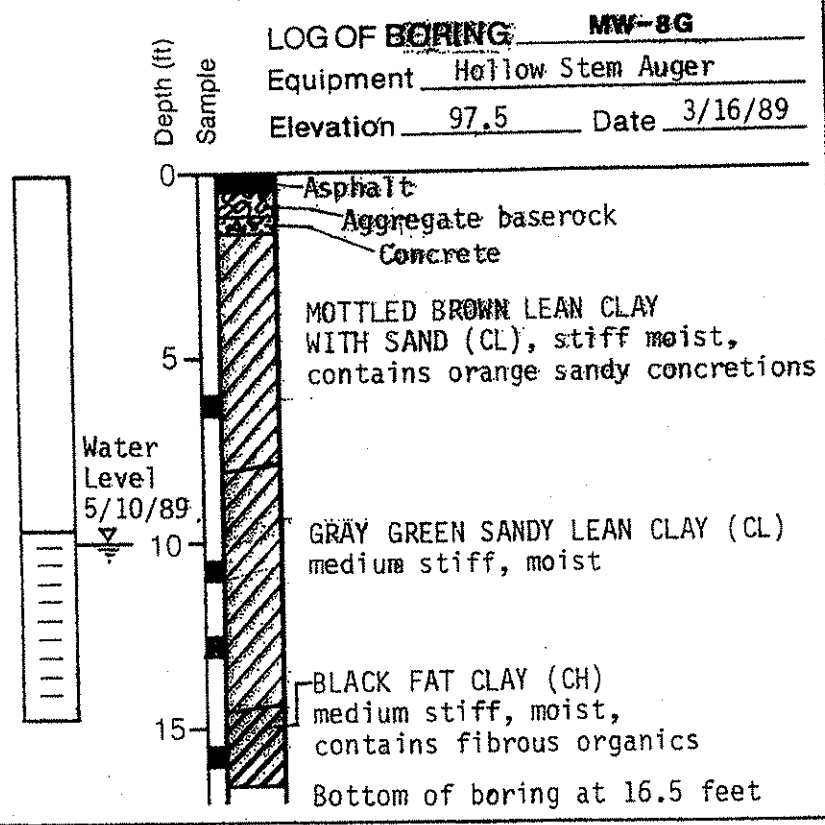
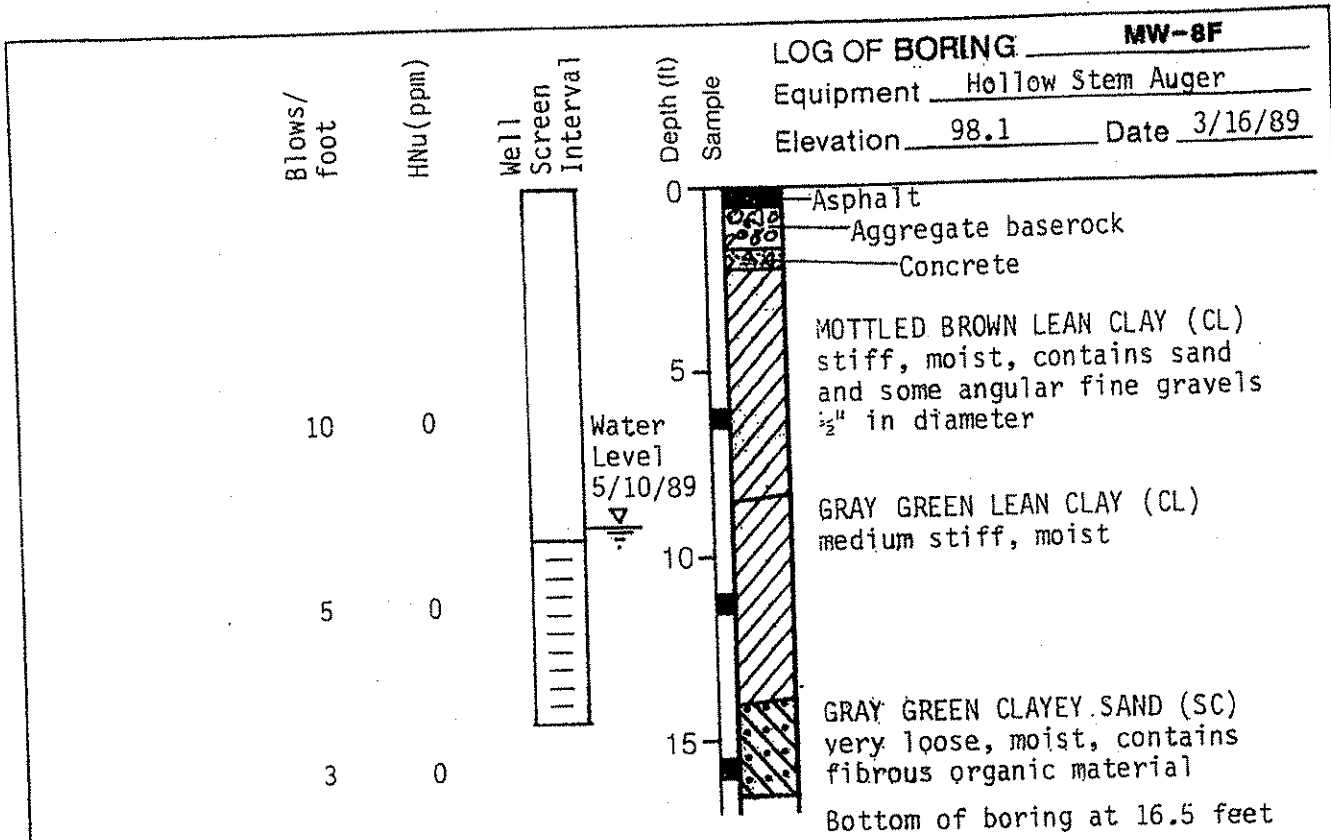
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 Engineers, Geologists
 & Geophysicists

Log of Boring B-5
 Former Texaco Service Station
 500 Grand Avenue
 Oakland, California

PLATE

9

DRAWN: YC JOB NUMBER: 2251,081.03 APPROVED: SJO DATE: 5/89 REV SEC: DATE:



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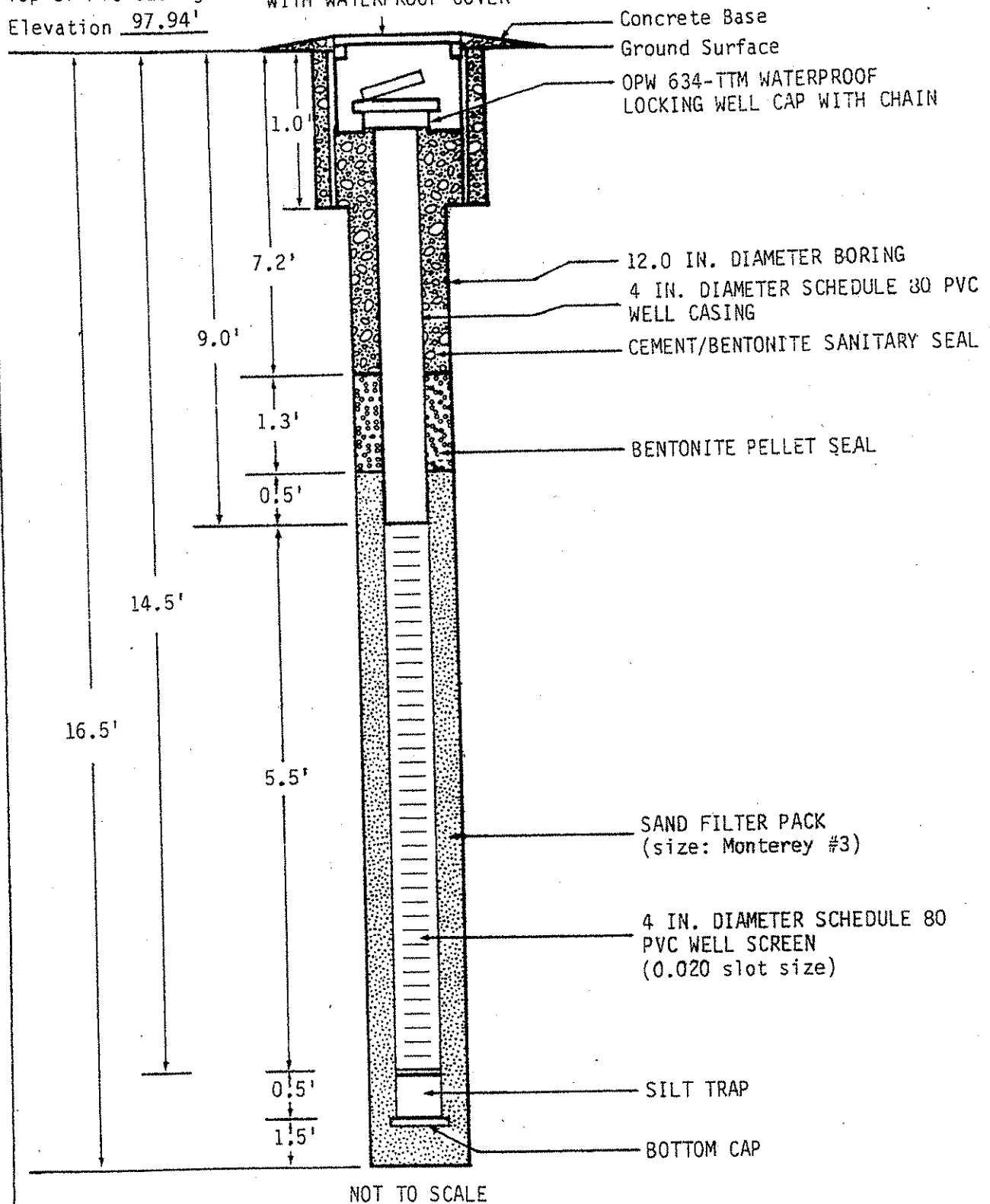
Log of Boring MW-8F and MW-8G
 Former Texaco Service Station
 500 Grand Avenue
 Oakland, California

PLATE

11

Top of PVC Casing
Elevation 97.94'

12" EMCO WHEATON A-721 MANHOLE
WITH WATERPROOF COVER



Harding Lawson Associates
Engineers and Geoscientists

Well Construction Diagram - MW-8F
Former Texaco Service Station
500 Grand Avenue
Oakland, California

PLATE

14

DRAWN
YC

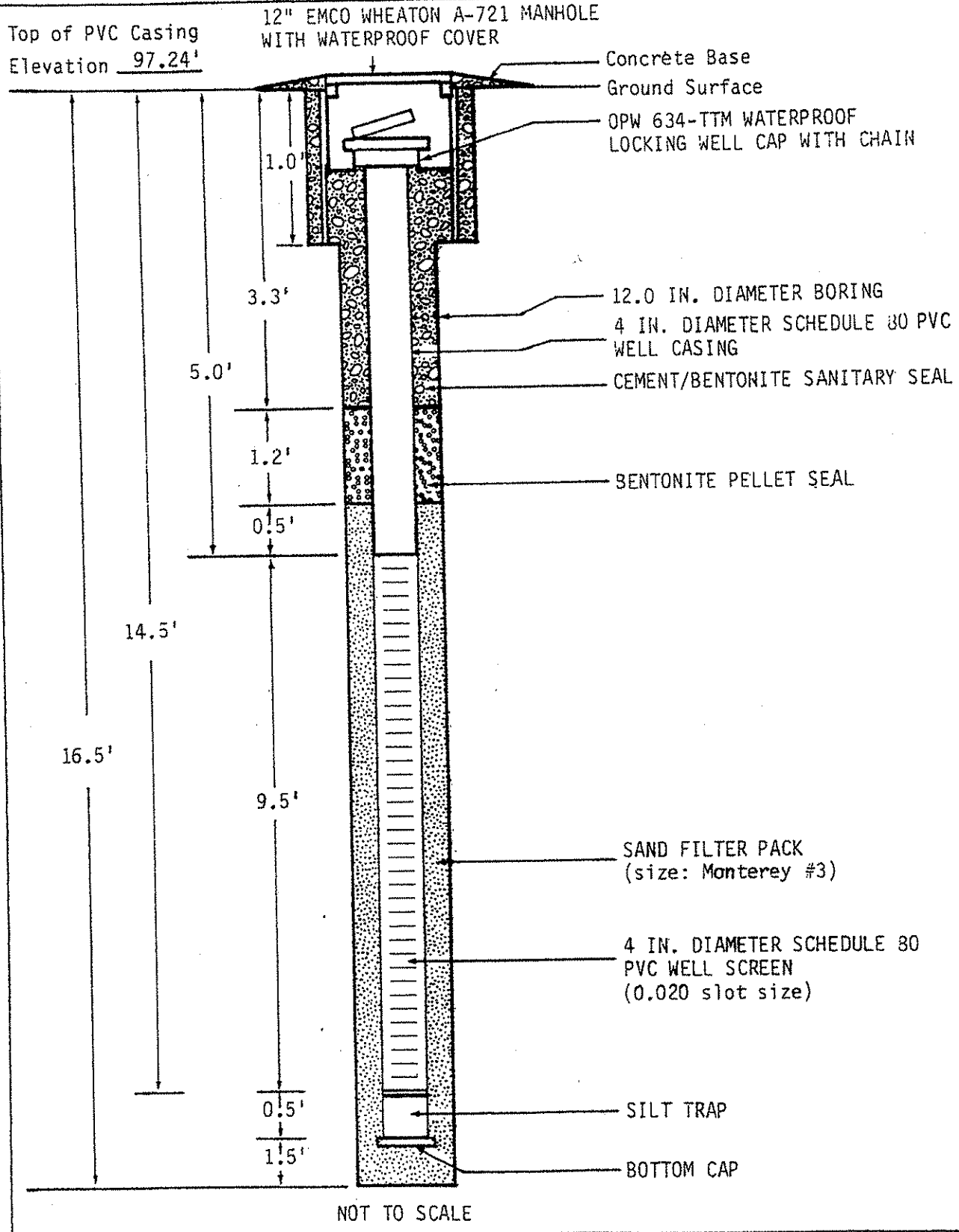
JOB NUMBER
2251,081.03

APPROVED
SJD

DATE
5/89

REVISED

DATE



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Well Construction Diagram - MW-8G
Former Texaco Service Station
500 Grand Avenue
Oakland, California

PLATE
15

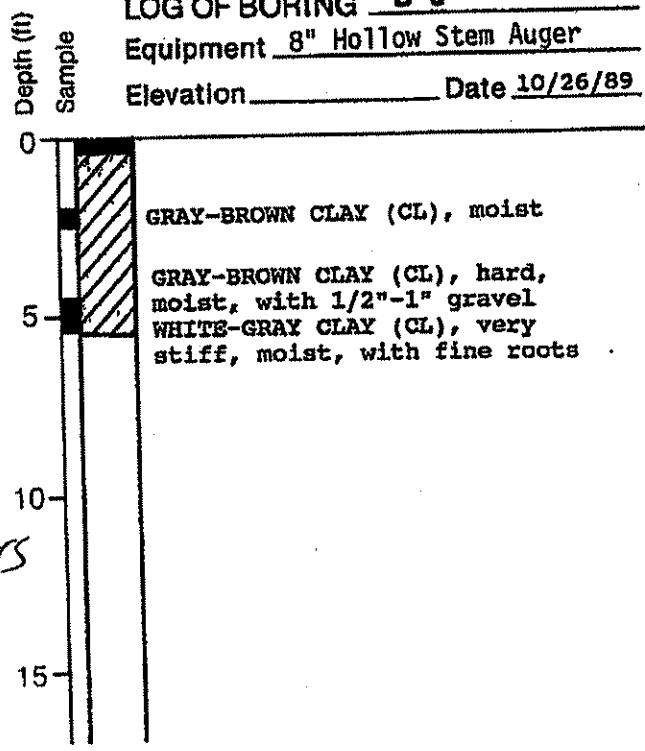
DRAWN YC	JOB NUMBER 2251,081.03	APPROVED SJO	DATE 5/89	REVISED	DATE
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288402A-B1S14W 25Q

A

LOG OF BORING B-6
 Equipment 8" Hollow Stem Auger
 Elevation _____ Date 10/26/89

Blows/ foot	HNu (ppm)	Odor
Sampled with hand auger	0	
37	0	

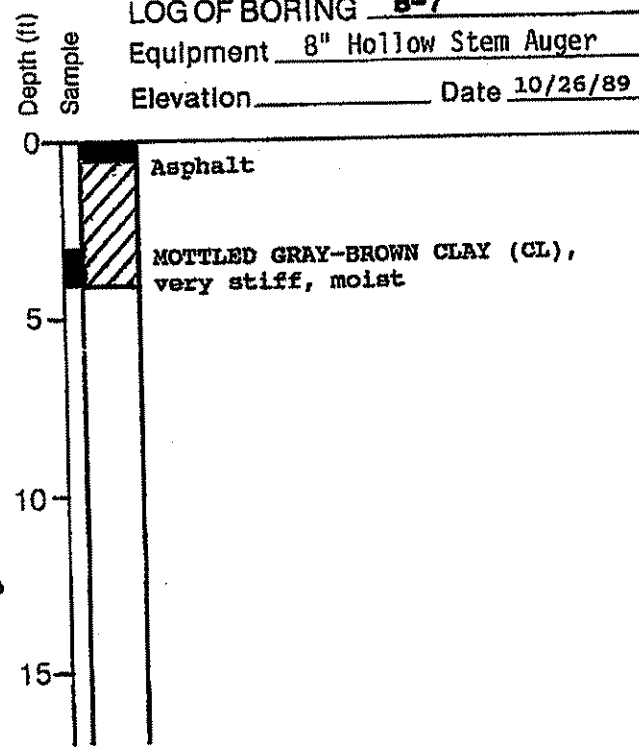


Driller: *Maggiore Brothers*
 Kevin

LOG OF BORING B-7
 Equipment 8" Hollow Stem Auger
 Elevation _____ Date 10/26/89

B

27	110
----	-----



Driller: *Maggiore Brothers*
 Kevin



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 Engineers, Geologists
 & Geophysicists

Logs of Borings B-6 and B-7
 Former Texaco Station
 500 Grand Ave.
 Oakland, California

PLATE

DRAWN CT	JOB NUMBER 2251,081.03	APPROVED	DATE 12/89	REVISED	DATE
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288402 C.P

1S/4W 25Q

LOG OF BORING B-8

Equipment 8" Hollow Stem Auger

Elevation _____ Date 10/26/89

Blows/
foot

HNu (ppm)

Odor

Depth (ft)
Sample

24

20

0

5

10

15

Asphalt

GREEN-GRAY CLAY (CL), very stiff, moist

MOTTLED GREEN, RED, BROWN CLAY (CL), very stiff, moist, minor gravel $\leq 1/4$ " diameter

Driller: Maggiora
Brothers
Kevin

LOG OF BORING B-9

Equipment 8" Hollow Stem Auger

Elevation _____ Date 10/26/89

Depth (ft)
Sample

11

20
60

0

5

10

15

Asphalt

Strong diesel smell in cuttings
GREEN-GRAY SILTY CLAY (CL), medium stiff, moist

GREEN SILTY SAND (SM), loose, very moist

Driller: Maggiora
Brothers
Kevin



Harding Lawson Associates
Engineers, Geologists
& Geophysicists

Logs of Borings B-8 and B-9

Former Texaco Station
500 Grand Ave.
Oakland, California

PLATE

DRAWN
CT

JOB NUMBER
2251,081.03

APPROVED

DATE
12/89

REVISED

DATE

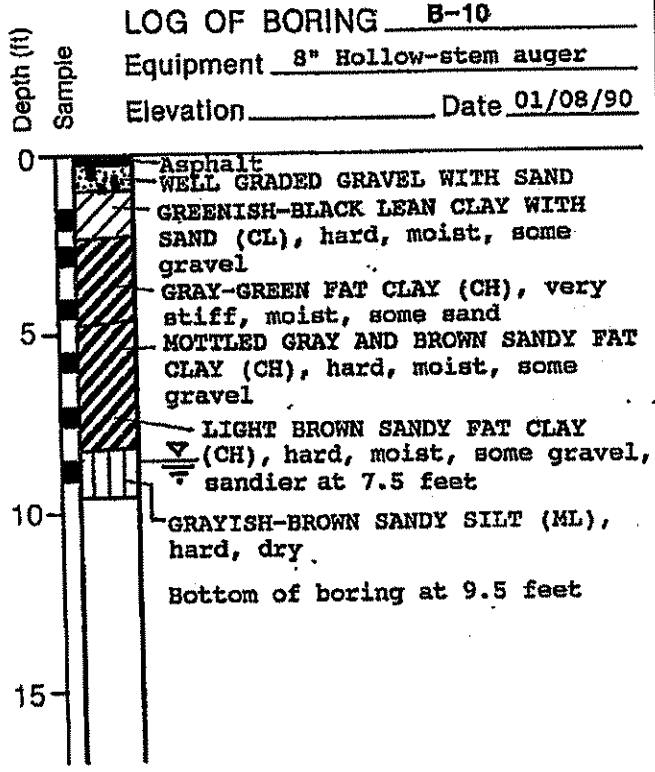
288402 B, F 15/4W 25Q

2

Laboratory Tests	Blows/ foot	Photo- ionization Detector (ppm)
	24	30
	12	20
	18	10
	20	0
	15	0
	27	0

Driller: Week's
~~Week's~~ Gary

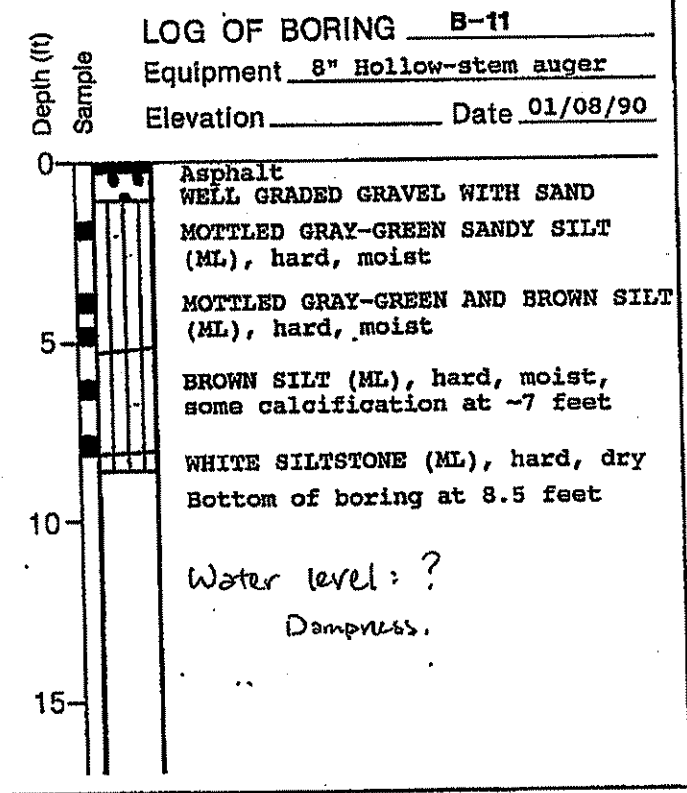
CHECK PRINT
date 3/1 drafter Q 1



F

	14	35
	28	140
	48	
	48	70
	60	10

Driller: Week's
~~Week's~~ Gary



Harding Lawson Associates
Engineers, Geologists
& Geophysicists

Logs of Borings B-10 and B-11
- Former Texaco Service Station
500 Grand Avenue
Oakland, California

PLATE

288402G/IS/4W 2SQ

LOG OF BORING B-12

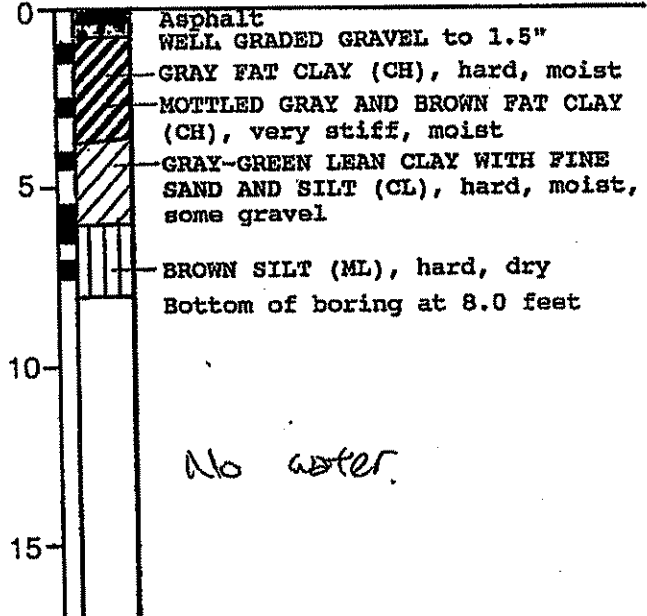
Equipment 8" Hollow-stem auger

Elevation _____ Date 01/08/90

Laboratory Tests

Blows/ foot	Photo- Ionization Detector (ppm)
14	15
12	50
16	100
43	2
60	

Depth (ft)
Sample



Driller:
Weeks

Gary

CHECK PRINT
 date 3/1 drafter DL



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 Engineers, Geologists
 & Geophysicists

Log of Boring B-12!
 Former Texaco Service Station
 500 Grand Avenue
 Oakland, California

PLATE

DRAWN
YC

JOB NUMBER
2251,081.03

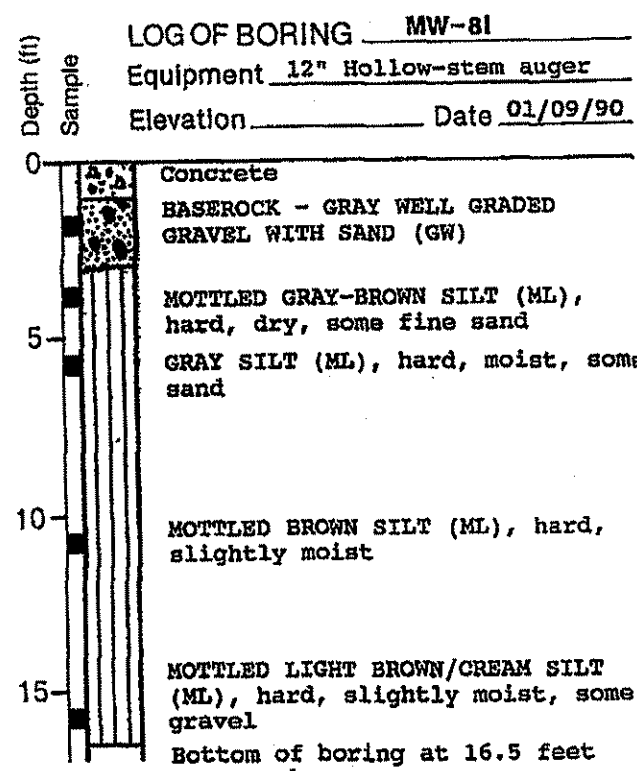
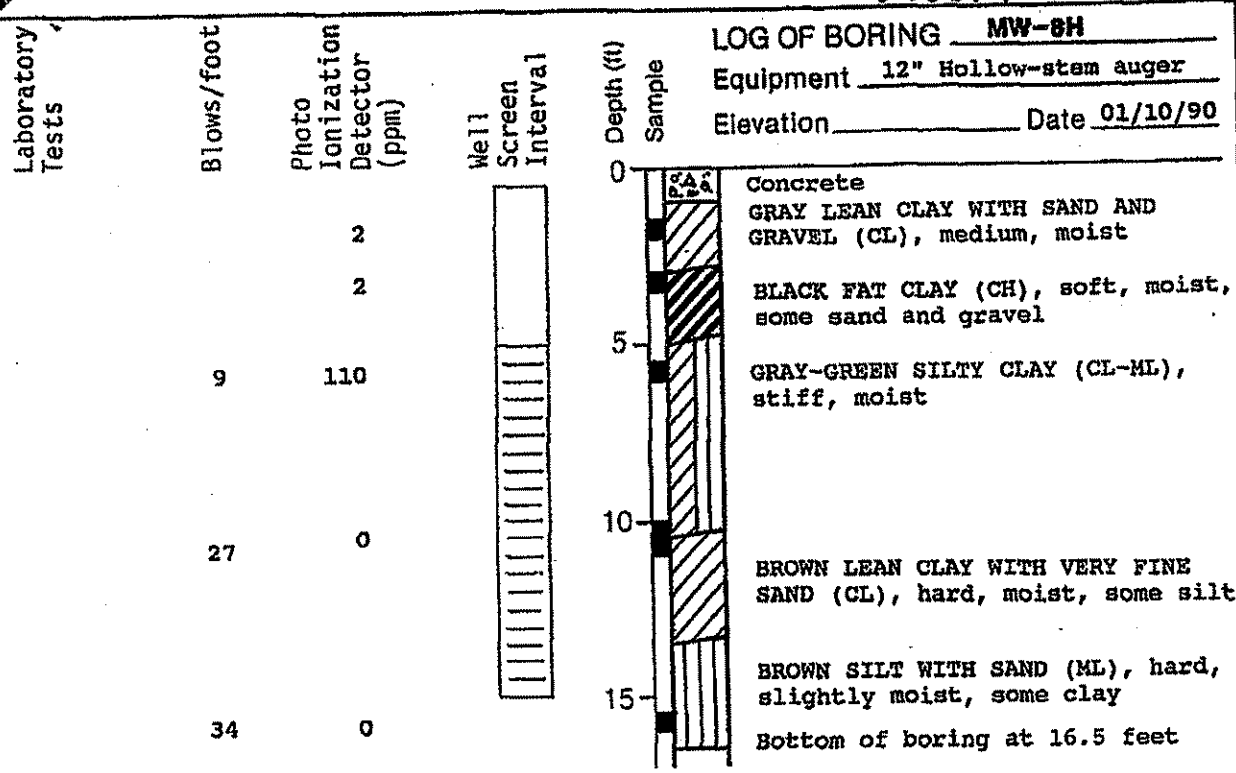
APPROVED

DATE
2/90

REVISED

DATE

288379

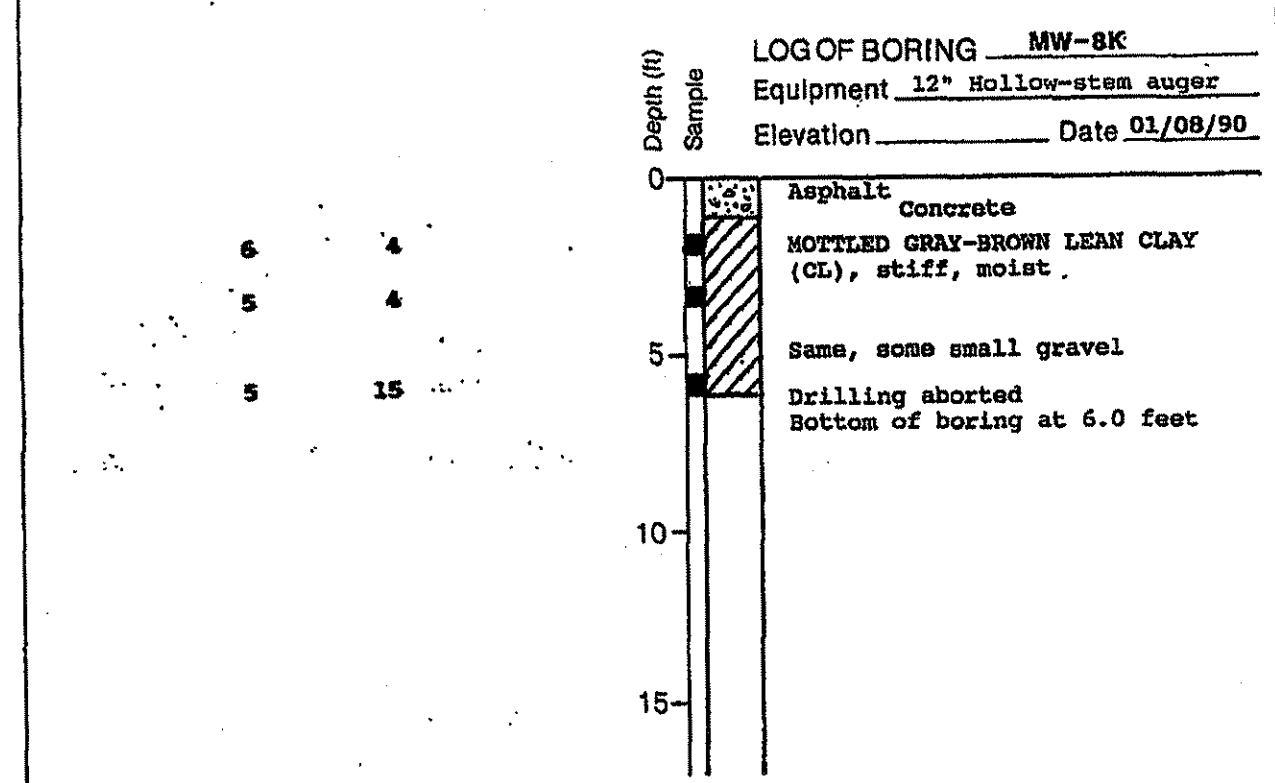
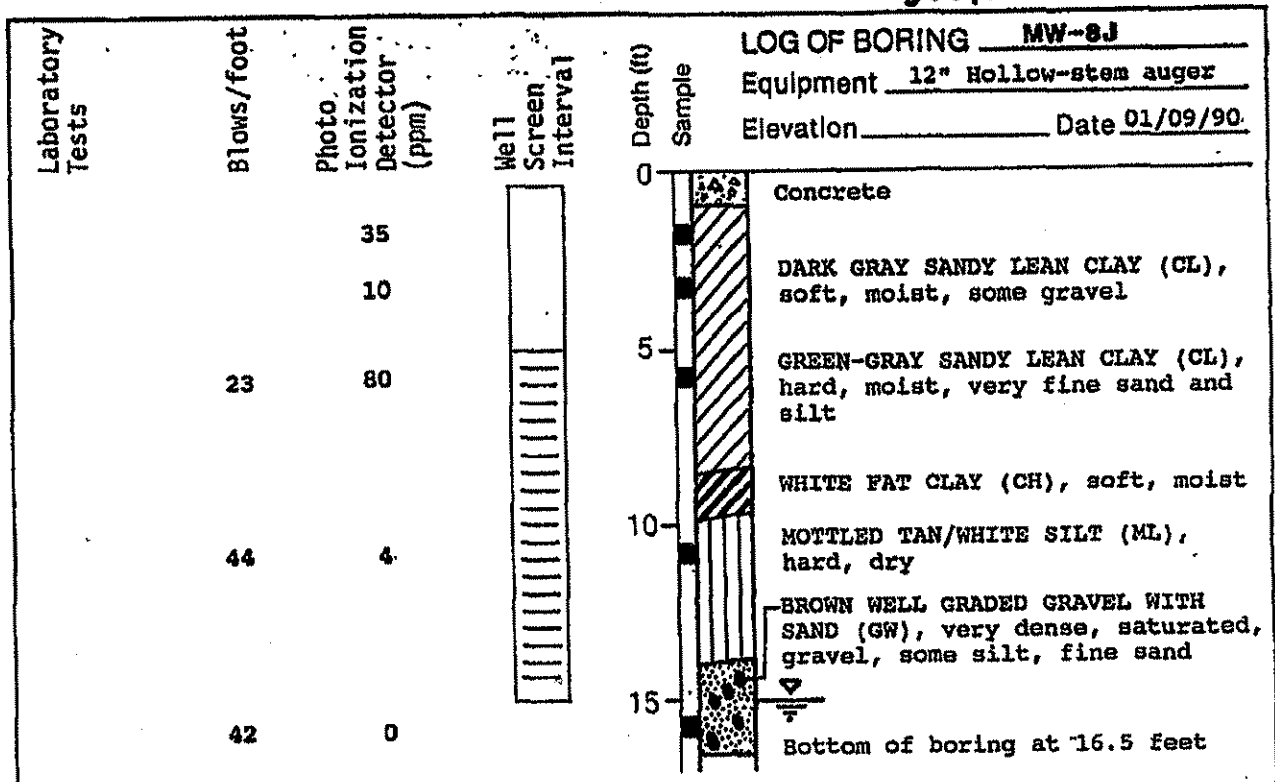


Harding Lawson Associates
 Engineers, Geologists
 & Geophysicists

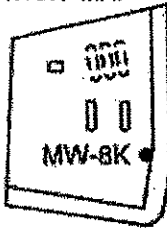
Logs of Borings MW-8H and MW-8I
 Former Texaco Service Station
 500 Grand Avenue
 Oakland, California

DL675

288402



LOCATION MAP



Grand Avenue



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. MW-8K
PAGE 1 OF 1

PROJECT NO. 340-34.20
 LOGGED BY: L.D.
 DRILLER: WEST HAZMAT
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: #3 SAND

CLIENT: TEXACO
 DATE DRILLED: 5-18-93
 LOCATION: 500 Grand Avenue, Oakland
 HOLE DIAMETER: 8"
 HOLE DEPTH: 19.5'
 WELL DIAMETER:
 WELL DEPTH: 18'
 CASING STICKUP: NA

NORTHING EASTING ELEVATION

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
	Sat	6	7	2			GC	CLAYEY GRAVEL - FILL: dark gray; 30-40% clay; 10-15% sand; fine to coarse gravel; angular; no product odor.
				4				
				6				@15': as above; fill; loose; no product odor.
	Mst	3	27	10			CL	SANDY CLAY: olive brown; low plasticity; some silt; 15-25% fine to coarse sand; medium dense; no product odor.
	Mst	12	60	16			CL	GRAVELLY CLAY: brown; low plasticity; 25-35% coarse sand to gravel; dense; no product odor.
				18				
				20			SM	SILTY SAND: (1/4" found in the shoe of sampler); dark yellowish brown; some clay; 15-20% silt; fine sand; medium dense; no product odor.
				22				
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

BOTTOM OF BORING AT 19.5'

LOCATION MAP



Grand Avenue



NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO: MW-8L
PAGE 1 OF 1

PROJECT NO. 340-34.20
LOGGED BY: L.D.
DRILLER: WEST HAZMAT
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: #3 SAND

CLIENT: TEXACO
DATE DRILLED: 5-18-93
LOCATION: 500 Grand Avenue, Oakland
HOLE DIAMETER: 8"
HOLE DEPTH: 19.5'
WELL DIAMETER: 2"
WELL DEPTH: 18'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS	
	Sat	100	24	2			GC	CLAYEY GRAVEL - FILL: dark gray; 30-40% clay; 10-15% sand; fine to coarse gravel; angular; medium dense; faint product odor.	
				4					
				6				CL	SANDY CLAY: olive brown; low plasticity; some silt; 15-25% fine to coarse sand; medium dense; faint product odor.
	Mst	20	50	10				SM	SILTY SAND: dark yellowish brown; some clay; 15-20% silt; fine sand; dense; no product odor.
				12					
				14					
				16				@15': as above; no product odor.	
				18				CL	SANDY CLAY: light olive brown; iron oxide and manganese oxide; medium dense; no product odor.
				20					
				22					
				24					
				26					
				28					
				30					
				32					
				34					
				36					
				38					
				40					
				42					
				44					

BOTTOM OF BORING AT 19.5'



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 Roseville, CA 95678
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 Fax: 916.677.3687

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management	BORING/WELL NAME	S-1
JOB/SITE NAME	21-1173	DRILLING STARTED	20-Nov-06
LOCATION	500 Grand Ave, Oakland, CA	DRILLING COMPLETED	20-Nov-06
PROJECT NUMBER	61H-2049	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Fisch Environmental	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	K. Hoey	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
581		S-1					Fill SILT: dark grey; dry; hard; 70% silt, 25% clay, 5% sand; medium plasticity; moderate estimated permeability. SILT with sand: dark grey; moist; 60% silt, 20% clay, 20% sand; medium plasticity; moderate estimated permeability. CLAY: green-grey; moist; soft; 50% clay, 30% silt, 20% sand; high plasticity; low estimated permeability.	0.5 2.0 3.0 4.0	<p>Portland Type III Bottom of Boring @ 4 ft</p>

WELL LOG (PID) R:\21-117-2\GINT\21-1173 GINT.GPJ DEFAULT.GDT 2/28/07



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BORING/WELL LOG

CLIENT NAME	<u>Chevron Environmental Management</u>	BORING/WELL NAME	<u>S-2</u>
JOB/SITE NAME	<u>21-1173</u>	DRILLING STARTED	<u>20-Nov-06</u>
LOCATION	<u>500 Grand Ave, Oakland, CA</u>	DRILLING COMPLETED	<u>20-Nov-06</u>
PROJECT NUMBER	<u>61H-2049</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Fisch Environmental</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hydraulic push</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>2"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>K. Hoey</u>	DEPTH TO WATER (First Encountered)	<u>NA</u>
REVIEWED BY	<u>D. Herzog, PG# 7211</u>	DEPTH TO WATER (Static)	<u>NA</u>
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
1257		S-2					Fill SILT with sand: brown-grey; dry; 75% silt, 25% sand; medium plasticity; high estimated permeability. SILT with sand: brown-grey; dry; 65% silt, 20% sand, 15% clay; medium plasticity; moderate estimated permeability. SILT: brown-grey; moist; 65% silt, 25% clay, 10% sand; medium plasticity; moderate estimated permeability.	0.5 1.5 2.0 4.0	

WELL LOG (PID) R:21-1173 OAKLAND\GINT\21-1173 GINT.GPJ DEFAULT.GDT 2/18/07



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BORING/WELL LOG

CLIENT NAME	<u>Chevron Environmental Management</u>	BORING/WELL NAME	<u>S-3</u>
JOB/SITE NAME	<u>21-1173</u>	DRILLING STARTED	<u>20-Nov-06</u>
LOCATION	<u>500 Grand Ave. Oakland, CA</u>	DRILLING COMPLETED	<u>20-Nov-06</u>
PROJECT NUMBER	<u>61H-2049</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Fisch Environmental</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hydraulic push</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>2"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>K. Hoey</u>	DEPTH TO WATER (First Encountered)	<u>NA</u>
REVIEWED BY	<u>D. Herzog, PG# 7211</u>	DEPTH TO WATER (Static)	<u>NA</u>

REMARKS

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
0.0		S-3					FILL: grey; wet; 45% gravel 20% clay, 25% sand, 10% silt.	4.0	 ← Portland Type III Bottom of Boring @ 4 ft

WELL LOG (PID) F:\21-1173 OAKLAND\GINT\21-1173 GINT.GPJ DEFAULT.GDT 2/8/07



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BORING/WELL LOG

CLIENT NAME	<u>Chevron Environmental Management</u>	BORING/WELL NAME	<u>SV-4</u>
JOB/SITE NAME	<u>21-1173</u>	DRILLING STARTED	<u>18-Mar-08</u>
LOCATION	<u>500 Grand Ave, Oakland, CA</u>	DRILLING COMPLETED	<u>18-Mar-08</u>
PROJECT NUMBER	<u>612049</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>CRA</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hand Auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>3"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>B. Summersett</u>	DEPTH TO WATER (First Encountered)	<u>2.0 fbg (18-Mar-08)</u> ▼
REVIEWED BY	<u>B. Carey</u>	DEPTH TO WATER (Static)	<u>2.0 fbg (18-Mar-08)</u> ▼

REMARKS

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt to 6" FILL: dark brown; wet; 40% gravel, 30% silt, 30% sand; high estimated permeability.	0.5 3.0	 Portland Type VII Bottom of Boring @ 3 fbg

WELL LOG (PID) [ROCK] 1-1173-26INT 21-1173 GINT.GPJ DEFAULT.GDT 7/31/08



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BORING/WELL LOG

CLIENT NAME	<u>Chevron Environmental Management</u>	BORING/WELL NAME	<u>SV-5</u>
JOB/SITE NAME	<u>21-1173</u>	DRILLING STARTED	<u>18-Mar-08</u>
LOCATION	<u>500 Grand Ave, Oakland, CA</u>	DRILLING COMPLETED	<u>18-Mar-08</u>
PROJECT NUMBER	<u>612049</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>CRA</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hand Auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>3"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>J. Bostick</u>	DEPTH TO WATER (First Encountered)	<u>4.5 fbg (18-Mar-08)</u> ▽
REVIEWED BY	<u>B. Carey</u>	DEPTH TO WATER (Static)	<u>3.0 fbg (18-Mar-08)</u> ▽

REMARKS

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0		SV-5-2	0.5 1.5 5	GM		Asphalt to 6" FILL: dark brown; moist; 40% gravel, 30% silt, 30% sand; high estimated permeability. Silty GRAVEL with sand; dark brown; moist; 40% gravel 30% sand, 30% silt; high estimated permeability.	0.5 1.5 5.0	 Portland Type III Bottom of Boring @ 5 fbg

WELL LOG (PID) KROCKL-1-CHEV21-1173-2IGINT01-1173 GINT.GPJ DEFAULT.GDT 2/21/08



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BORING/WELL LOG

CLIENT NAME	<u>Chevron Environmental Management</u>	BORING/WELL NAME	<u>SV-6</u>
JOB/SITE NAME	<u>21-1173</u>	DRILLING STARTED	<u>18-Mar-08</u>
LOCATION	<u>500 Grand Ave, Oakland, CA</u>	DRILLING COMPLETED	<u>18-Mar-08</u>
PROJECT NUMBER	<u>612049</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>CRA</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hand Auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>3"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>B. Summersett</u>	DEPTH TO WATER (First Encountered)	<u>2.0 fbg (18-Mar-08)</u> ▼
REVIEWED BY	<u>B. Carey</u>	DEPTH TO WATER (Static)	<u>2.0 fbg (18-Mar-08)</u> ▼

REMARKS

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					GM		Asphalt to 6" Silty GRAVEL with sand; dark brown; wet; 40% gravel 30% sand, 30% silt; high estimated permeability.	0.5 3.0	 Bottom of Boring @ 3 fbg

WELL LOG (PID) KROCKL-1.CHE21-117-2(GINT)21-1173.GINT.GPJ_DEFAULT.GDT 7/3/08



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BORING/WELL LOG

CLIENT NAME	<u>Chevron Environmental Management</u>	BORING/WELL NAME	<u>SV-7</u>
JOB/SITE NAME	<u>21-1173</u>	DRILLING STARTED	<u>18-Mar-08</u>
LOCATION	<u>500 Grand Ave, Oakland, CA</u>	DRILLING COMPLETED	<u>18-Mar-08</u>
PROJECT NUMBER	<u>612049</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>CRA</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hand Auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>3"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>J. Bostick</u>	DEPTH TO WATER (First Encountered)	<u>5.9 fbg (18-Mar-08)</u> ▽
REVIEWED BY	<u>B. Carey</u>	DEPTH TO WATER (Static)	<u>3.0 fbg (18-Mar-08)</u> ▽

REMARKS

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
69.2		SV-7-2	0.5	ML		Asphalt to 6" SILT: brown with blue grey mottling; moist; 60% silt, 30% clay, 10% sand; Moderate plasticity; moderate estimated permeability; strong odor.	0.5	 Portland Type I/II Bottom of Boring @ 6 fb
1156		SV-7-6	5			@ 5fbg Sandy SILT: light brown; wet; 50% silt 30% sand, 20% clay; low plasticity, moderate estimated permeability.	6.0	

WELL LOG (PID): HROCKL-1, CHE21-117-2, GINT21-1173 GINT.GPJ DEFAULT.GPJ 7/3/08



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BORING/WELL LOG

CLIENT NAME	<u>Chevron Environmental Management</u>	BORING/WELL NAME	<u>SV-8</u>
JOB/SITE NAME	<u>21-1173</u>	DRILLING STARTED	<u>19-Mar-08</u>
LOCATION	<u>500 Grand Ave, Oakland, CA</u>	DRILLING COMPLETED	<u>19-Mar-08</u>
PROJECT NUMBER	<u>612049</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>CRA</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hand Auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>3"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>B. Summersett</u>	DEPTH TO WATER (First Encountered)	<u>5.9 fbg (19-Mar-08)</u> ▼
REVIEWED BY	<u>B. Carey</u>	DEPTH TO WATER (Static)	<u>3.0 fbg (19-Mar-08)</u> ▼

REMARKS

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0		SV-8-2			ML		Asphalt to 8" SILT; brown with white mottling; moist; 60% silt, 30% clay, 10% sand; Moderate plasticity; moderate estimated permeability; strong odor.	0.5	<p>Portland Type I/II</p> <p>Bottom of Boring @ 6 fbg</p>
0.0		SV-8-5		5				6.0	

WELL LOG (PID) I:\ROCK\1-CHE21-117-2\GINT\21-1173 GINT.GPJ DEFAULT.GDT 5/18/08

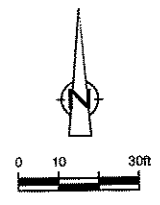
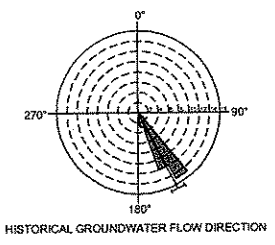
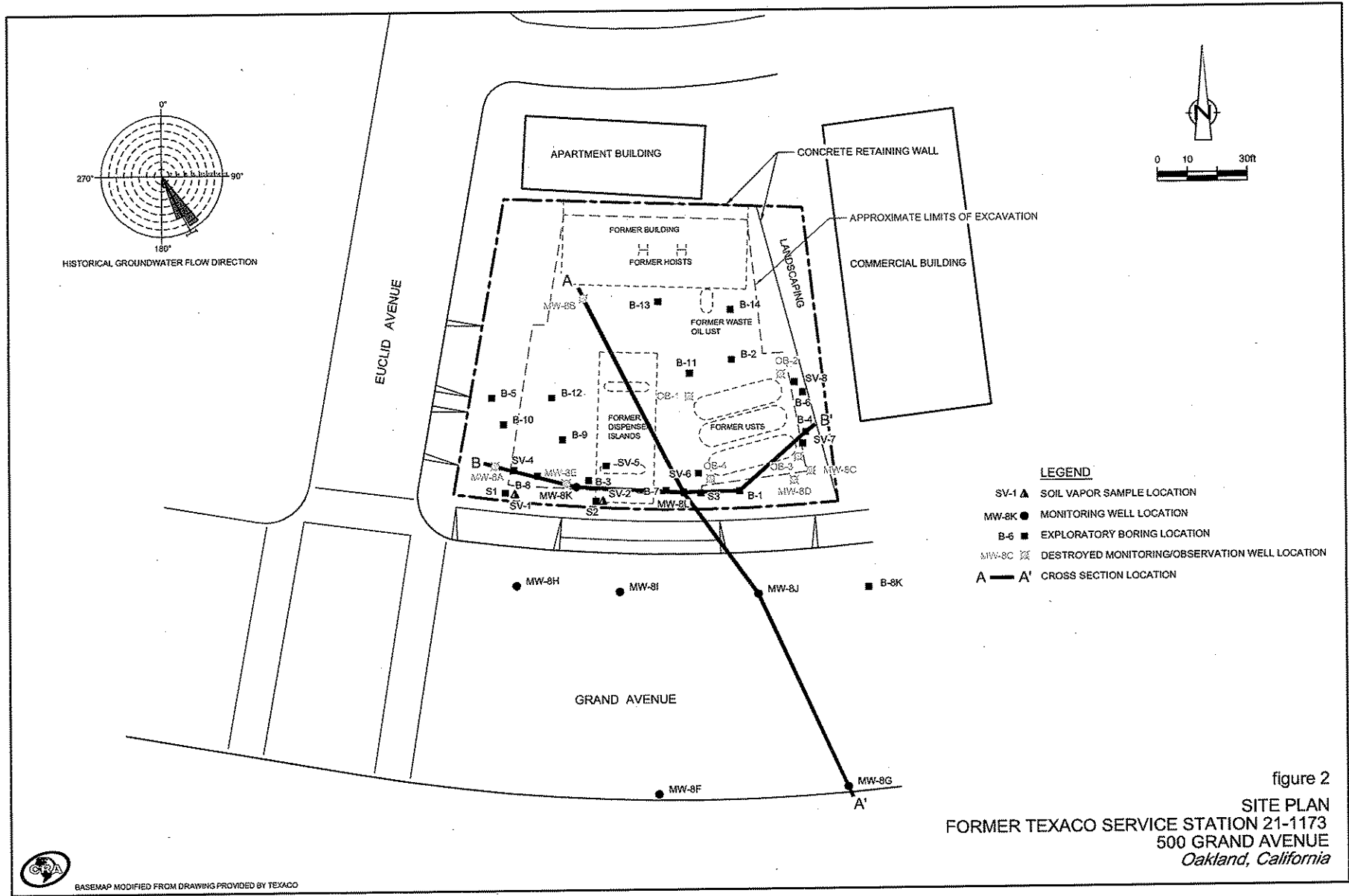


figure 2
 SITE PLAN
 FORMER TEXACO SERVICE STATION 21-1173
 500 GRAND AVENUE
 Oakland, California

