



PACIFIC
ENVIRONMENTAL
GROUP, INC.

Continue QMR of wells
MW-5, MW-8 and MW-9

December 28, 1995
Project 286-001.2A

Ms. Eva Chu
Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Re: Quarterly Report - Fourth Quarter 1995 and
Well Installation and Destruction Report
Estate of John B. Henry Property
1726 Park Street at Eagle Avenue
Alameda, California

Dear Ms. Chu:

Pacific Environmental Group, Inc. (PACIFIC) has prepared this letter to document the destruction and installation of groundwater monitoring wells at the site referenced above (Figure 1). This letter also presents the results of the fourth quarter 1995 monitoring and sampling event.

The destruction and installation of groundwater monitoring wells were performed according to PACIFIC's *Remedial Work Plan* (Plan, June 29, 1995) submitted to Alameda County Health Care Services (ACHCS). The Plan was approved with minor changes by Ms. Eva Chu of the ACHCS (July 7, 1995). These changes were implemented by PACIFIC with the scope of work described below. Included in this report is a description of the site background, scope of work, and the findings of the well installation.

SITE BACKGROUND

The site included an enclosed service repair bay, three hydraulic lifts, an underground storage tank (UST) complex, one product dispenser island, and one underground waste oil storage tank (Figure 2). The USTs, located in the eastern portion of the property, were removed from the site in the early 1970's according to available records. However, the position and number of tanks removed from the site is unknown. From 1991 to

present, the waste oil tank was removed and a series of soil borings were drilled and groundwater monitoring wells were installed. Monitoring Wells MW-1 and MW-2 were drilled and installed in 1992 by TMC Environmental, Inc. (TMC) and Wells MW-3 through MW-8 were drilled and installed by PACIFIC in February 1994.

SCOPE OF WORK

Prior to initiating excavation activities, groundwater Monitoring Well MW-9 was drilled on September 11, 1995 and installed to the north of the site at the corner of Park Street and Eagle Avenue (Figure 2). This well was installed to replaced Well MW-7 which was abandoned due to excavation activities. In addition, Monitoring Wells MW-1 through MW-4, MW-6, and MW-7 were destroyed on August 15 through 17, 1995. Field and laboratory procedures and the boring log and well construction details are presented as Attachment A. The monitoring well installation and destruction permits are presented as Attachment B.

FINDINGS

Subsurface Conditions

Soils encountered during drilling consisted predominantly of interbedded sand and clayey sand to the total depth explored of 19 feet below ground surface (bgs). Groundwater was first encountered at approximately 10 feet bgs and then stabilized at 7 feet bgs.

Soil Analytical Results

Soil samples were collected from the boring for subsurface logging purposes only. No samples were submitted for hydrocarbon analysis.

Groundwater Elevation Data

Groundwater elevations for the three wells at the site, MW-5, MW-8, and MW-9, were measured during October and November 1995. Monitoring Wells MW-5 and MW-8 were measured on October 30, 1995 and Well MW-9 was monitored on November 15, 1995. Monitoring Well MW-9 has not been surveyed yet, however it will be surveyed during the next quarter. Groundwater elevation data is presented in Table 1.

Groundwater Analytical Results

Groundwater samples were collected in October and November 1995 for the fourth quarter monitoring event. Monitoring Wells MW-5 and MW-8 were sampled on

December 28, 1995

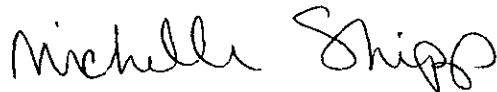
Page 3

October 30, 1995 and Monitoring Well MW-9 was sampled on November 15, 1995. All groundwater samples were analyzed by Sequoia Analytical, a state-certified laboratory, for total purgeable petroleum hydrocarbons calculated as gasoline (TPPH-g) by EPA Method 8015 and for benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds) by EPA Method 8020. Monitoring Well MW-5 was also analyzed for total extractable petroleum hydrocarbons calculated as diesel (TEPH-d) by EPA Method 8015. The groundwater analytical data are presented in Table 2. The certified analytical reports and chain-of-custody documentation are presented as Attachment C.

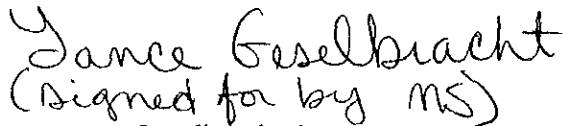
If you have any questions regarding this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.



Michelle R. Shipp
Senior Staff Scientist



(Signed for by MS)

Lance D. Geselbracht, P.E.
Senior Engineer

Attachments: Table 1 - Groundwater Elevation Data
Table 2 - Groundwater Analytical Data -
Total Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, TEPH as Diesel,
and Oil and Grease)
Figure 1 - Site Location Map
Figure 2 - Site Map
Attachment A - Field and Laboratory Procedures and
Well MW-9 Boring Log and Well
Attachment B - Monitoring Well Installation and
Destruction Permits
Attachment C - Certified Analytical Reports and Chain-of-Custody
Documentation

cc: Michael Brown, Esq., Mendelson and Brown
Mr. Marvin Katz, Texaco Refining and Marketing Inc.

Table 1
Groundwater Elevation Data

Estate of John B. Henry Property
1726 Park Street at Eagle Avenue
Alameda, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-1	05/12/92	13.57	6.16	7.41
	07/28/92		6.68	6.89
	08/17/92		6.77	6.80
	09/21/92		6.96	6.61
	01/14/93		5.38	8.19
	09/17/93		7.42	6.15
	01/31/94		6.35	7.22
	02/14/94	16.76	6.59	10.17
	04/22/94		6.57	10.19
	07/25/94		6.71	10.05
	02/09/95		5.48	11.28
08/17/95	----- Well Abandoned -----			
MW-2	05/12/92	14.35	5.94	8.41
	07/28/92		6.80	7.55
	08/17/92		6.94	7.41
	09/21/92		7.19	7.16
	01/14/93		4.82	9.53
	09/17/93		7.64	6.71
	01/31/94		6.50	7.85
	02/14/94	17.51	6.38	11.13
	04/22/94		6.50	11.01
	07/25/94		6.76	10.75
	02/09/95		4.96	12.55
08/17/95	----- Well Abandoned -----			
MW-3	02/14/94	17.45	6.58	10.87
	04/22/94		6.72	10.73
	07/25/94		6.95	10.50
	02/09/95		5.14	12.31
	08/17/95	----- Well Abandoned -----		
MW-4	02/14/94	18.08	6.70	11.38
	04/22/94		6.86	11.22
	07/25/94		7.23	10.85
	02/09/95		5.29	12.79
	08/17/95	----- Well Abandoned -----		
MW-5	02/14/94	17.19	7.33	9.86
	04/22/94		6.69	10.50
	07/25/94		6.96	10.23
	02/09/95		5.45	11.74
	10/30/95		7.95	9.24

Table 1 (continued)
Groundwater Elevation Data

Estate of John B. Henry Property
1726 Park Street at Eagle Avenue
Alameda, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-6	02/14/94	16.63	6.61	10.02
	04/22/94		6.69	9.94
	07/25/94		6.80	9.83
	02/09/95		5.73	10.90
	08/17/95	----- Well Abandoned -----		
MW-7	02/14/94	16.24	6.55	9.69
	04/22/94		6.56	9.68
	07/25/94		6.59	9.65
	02/09/95		5.82	10.42
	08/17/95	----- Well Abandoned -----		
MW-8	02/14/94	16.00	6.41	9.59
	04/22/94		6.43	9.57
	07/25/94		6.44	9.56
	02/09/95		5.90	10.10
	10/30/95		7.14	8.86
MW-9	11/15/95	NM	8.05	NM
MSL = Mean sea level				
TOC = Top of casing				
NM = Not measured				

Table 2
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Oil and Grease)

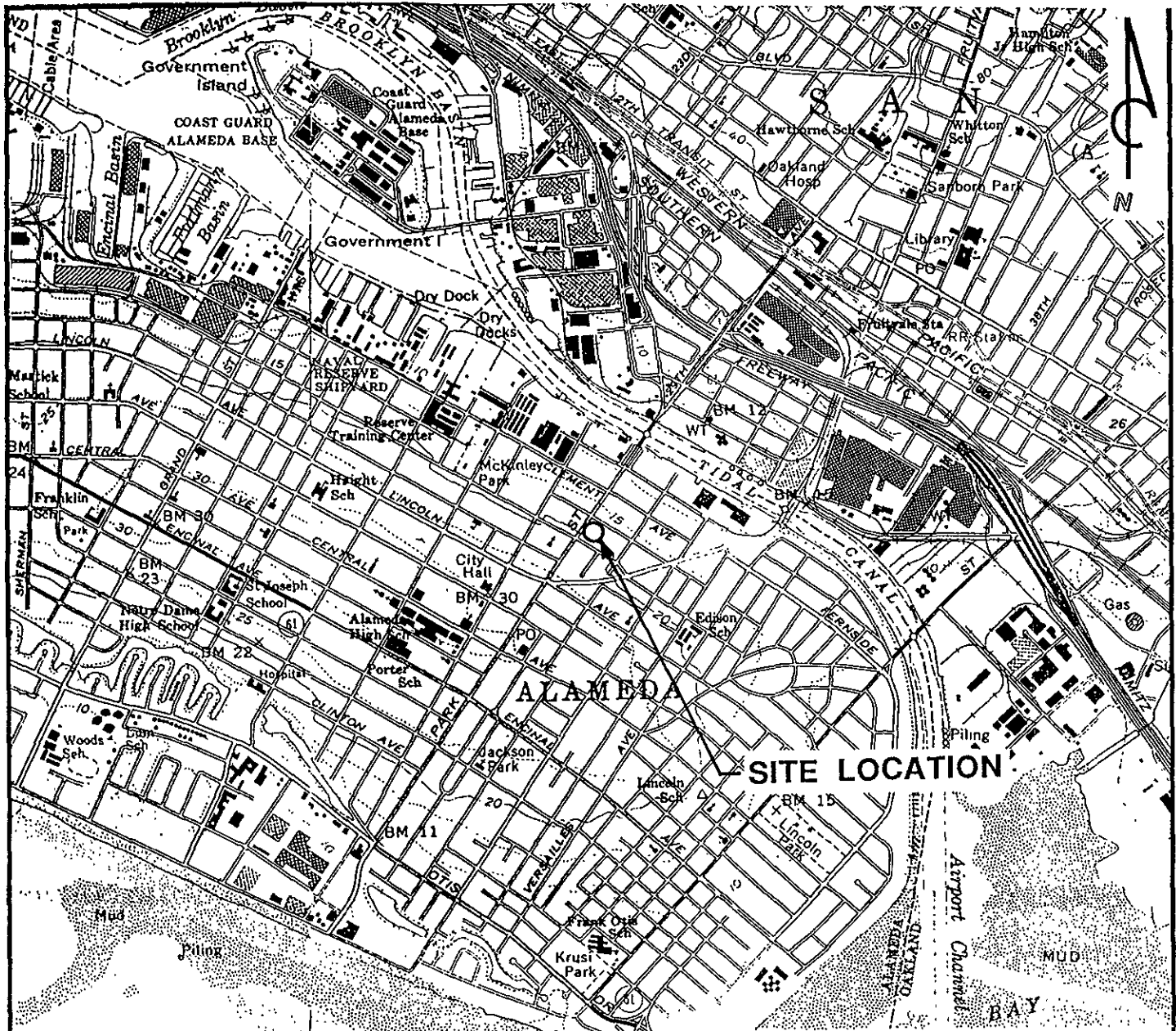
Estate of John B. Henry Property
 1726 Park Street at Eagle Avenue
 Alameda, California

Sample ID	Date Sampled	TPPH as			Ethyl-		TEPH as	Oil and Grease
		Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	benzene (ppb)	Xylenes (ppb)	Diesel (ppb)	(ppb)
MW-1	05/11/92	410	<0.5	1	4.2	11	96	NA
	08/13/92	260	<0.5	0.6	4.2	4	<50	NA
	01/14/93	270	<0.5	<0.5	1.1	6	<50	NA
	05/10/93	450	1.1	1.1	8.7	15	450	<50
	09/17/93	140	<0.5	<0.5	3.5	5.3	160	NA
	01/31/94	140	<0.5	<0.5	6	1.7	<50	<50
	04/22/94	790	1.9	4.5	11	35	<50	<50
	07/25/94	550	1.2	1.2	8.9	11	310	<200
	02/09/95	1,400	3.4	2.4	21	25	<50	NA
	08/17/95	----- Well Abandoned -----						
MW-2	05/11/92	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	08/13/92	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/14/93	<50	<0.5	<0.5	<0.5	<0.5	57	<50
	05/10/93	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	09/17/93	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/31/94	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	04/22/94	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	07/25/94	<50	0.98	1.4	<0.5	1.3	<50	<200
	02/09/95	<50	<0.5	<0.5	<0.5	<0.5	3,500	NA
	08/17/95	----- Well Abandoned -----						
MW-3	02/15/94	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	04/22/94	<50	<0.5	<0.5	<0.5	<0.5	<50	<200
	07/25/94	<50	<0.5	0.65	<0.5	<0.5	<50	NA
	02/09/95	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	08/17/95	----- Well Abandoned -----						
MW-4	02/15/94	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	04/22/94	<50	<0.5	2.5	<0.5	<0.5	<50	NA
	07/25/94	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	02/09/95	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	08/17/95	----- Well Abandoned -----						
MW-5	02/15/94	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	04/22/94	1,600	4.1	<0.5	22	230	<50	<50
	07/25/94	400	1.3	0.77	2.5	19	120	<200
	02/09/95	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	10/30/95	77	<0.5	<0.5	<0.5	1.7	650	NA
MW-6	02/15/94	1,100	120	2.2	13	100	NA	NA
	04/22/94	3,800	360	25	420	27	NA	NA
	07/25/94	1,100	110	5.1	190	13	NA	NA
	02/09/95	4,100	490	36	4.2	110	NA	NA
	08/17/95	----- Well Abandoned -----						

Table 2 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Oil and Grease)

Estate of John B. Henry Property
 1726 Park Street at Eagle Avenue
 Alameda, California

Sample ID	Date Sampled	TPPH as			Ethyl-benzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Oil and Grease (ppb)
		Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)				
MW-7	02/15/94	14,000	3.5	95	4,000	650	NA	NA
	04/22/94	3,400	8.4	6.7	110	600	NA	NA
	07/25/94	2,800	5.4	7.8	100	300	NA	NA
	02/09/95	13,000	20	73	760	2,900	NA	NA
	08/17/95	Well Abandoned						
MW-8	02/15/94	1,300	15	<0.5	110	23	NA	NA
	04/22/94	500	5	<0.5	17	20	NA	NA
	07/25/94	260	11	0.57	1.5	1.8	NA	NA
	02/09/95	820	35	4.3	26	21	NA	NA
	10/30/95	180	2.6	0.88	1.4	0.54	NT	NT
MW-9	11/15/95	1,200	3.6	<1.2	27	37	NT	NT
TPPH = Total purgeable petroleum hydrocarbons TEPH = Total extractable petroleum hydrocarbons ppb = Parts per billion NA = Not available or applicable NT = Not tested								

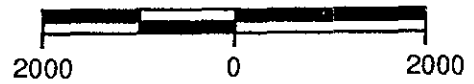


QUADRANGLE LOCATION

REFERENCES:

USGS 7.5 MIN. TOPOGRAPHIC MAP
 TITLED: OAKLAND WEST, CALIFORNIA
 DATED: 1959 REVISED: 1980
 TITLED: OAKLAND EAST, CALIFORNIA
 DATED: 1959 REVISED: 1980

SCALE IN FEET



PACIFIC ENVIRONMENTAL GROUP, INC.

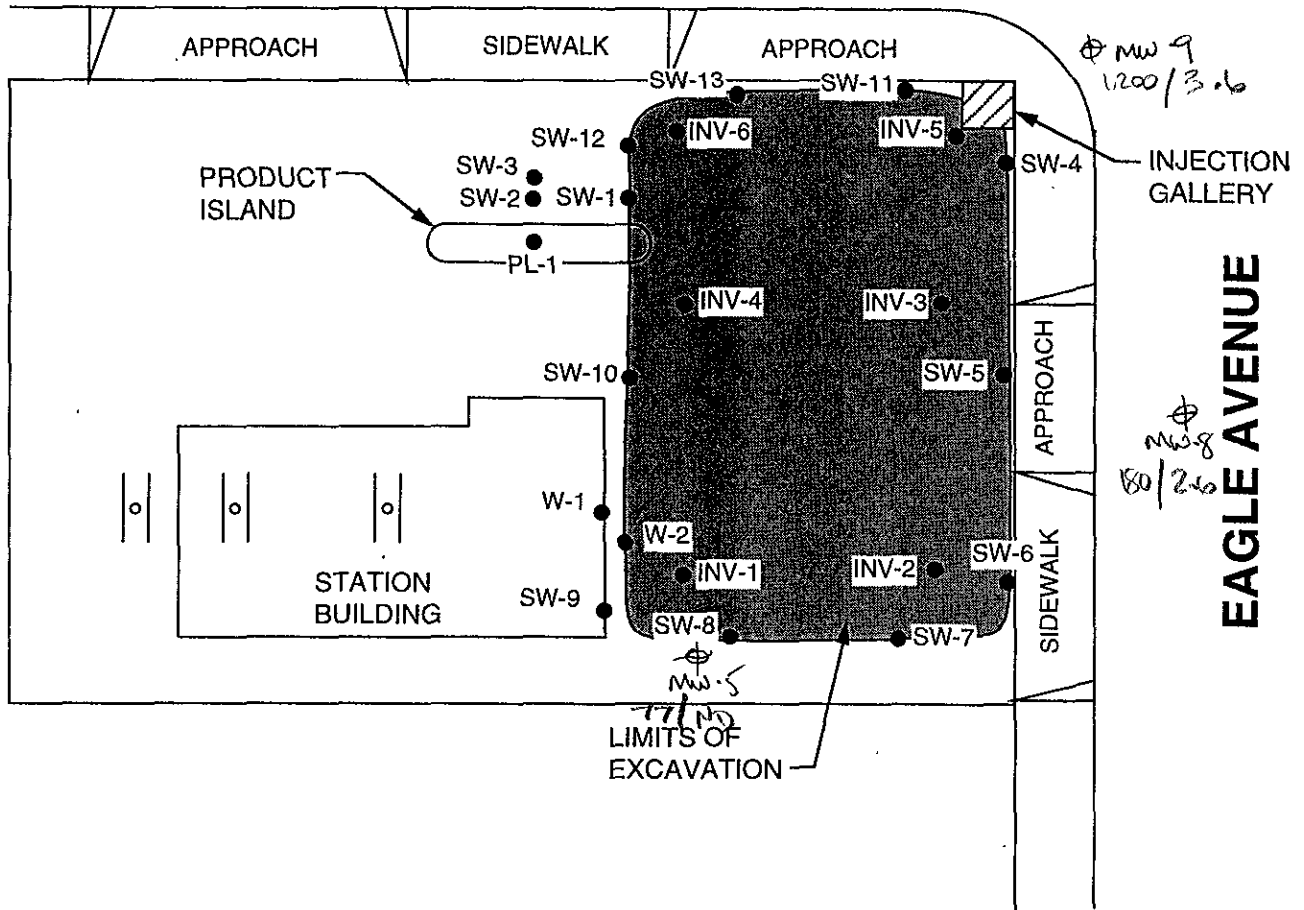
ESTATE OF JOHN B. HENRY
 1726 Park Street at Eagle Avenue
 Alameda, California

FIGURE:
1
 PROJECT:
 286-001.3C

SITE LOCATION MAP



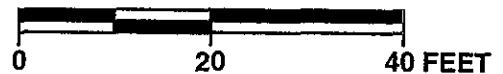
PARK STREET



LEGEND

SW-1 ● SOIL SAMPLE LOCATION AND DESIGNATION

SCALE



PACIFIC ENVIRONMENTAL GROUP, INC.

ESTATE OF JOHN B. HENRY
1726 Park Street at Eagle Avenue
Alameda, California

MAP OF EXCAVATION

FIGURE:
2
PROJECT:
286-001.4A

ATTACHMENT A
FIELD AND LABORATORY PROCEDURES AND
WELL MW-9 BORING LOG

ATTACHMENT A

FIELD AND LABORATORY PROCEDURES

Soil Borings and Groundwater Monitoring Well Installation Procedures

The Groundwater Monitoring Well MW-9 was drilled on September 11, 1995 using 8-inch hollow-stem auger drilling equipment and logged by a Pacific Environmental Group, Inc. geologist using the Unified Soil Classification System and standard geologic techniques. Soil samples for logging were collected at 5-foot depth intervals using a California-modified split-spoon sampler. The California sampler was driven a maximum of 18 inches using a 140-pound hammer with a 30-inch drop. Soil samples for possible chemical analysis were retained in brass liners, capped with Teflon® squares and plastic end caps, taped, and sealed in clean zip-lock bags. The samples were placed on ice for possible transport to the laboratory accompanied by chain-of-custody documentation. All down-hole drilling and sampling equipment was steam-cleaned following the completion of the wells. Down-hole sampling equipment was washed in a tri-sodium phosphate solution between samples.

The boring was converted to groundwater monitoring well by installing 2-inch diameter, flush-threaded, Schedule 40 PVC casing with 0.020-inch factory-slotted screen. Approximately 20 feet of screen was placed in the bottom of the boring. An RMC 2 x 12 sand pack was placed in the annular space across the entire screened interval, and extends approximately 1 foot above the top of the screen for the well. A bentonite and Portland cement seal extends from the sand pack to the ground surface.

Following well completion, the vault box elevation and the elevation of the top of the PVC well casing of the monitoring wells were surveyed to the nearest 0.01 foot, relative to mean sea level, by a licensed surveyor. The boring logs show well construction details.

Well Destruction Procedures

Monitoring Wells MW-1 through MW-4, MW-6, and MW-7 were destroyed by drilling out the 2-inch PVC well casings, annular sand packs, and sanitary grout seals with 8-inch hollow-stem augers to the total depth of the wells, which was approximately 20 feet below ground surface (bgs). The well borings were backfilled and properly sealed with an grout neat cement seal.

Organic Vapor Procedures




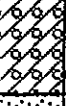







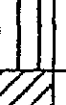



Soil samples collected at 5-foot depth intervals during drilling were analyzed in the field for ionizable organic compounds using the HNU Model PI-101 (or equivalent) photo-ionization detector (PID) with a 10.2 eV lamp. The test procedure involves measuring approximately 30 grams from an undisturbed soil sample, placing this subsample in a clean plastic bag, and sealing the bag. The bag was warmed for approximately 20 minutes (in the sun), and the head-space within the bag was tested for total organic vapor, measured in parts per million as benzene (ppm; volume/volume). The instrument was calibrated prior to drilling using a 100-ppm isobutylene standard (in air) and a sensitivity factor of 55 which relates the photo-ionization potential of benzene to that of isobutylene at 100 ppm. The results of the field testing are noted on the boring logs. PID readings are useful for indicating relative levels of contamination, but cannot be used to evaluate hydrocarbon levels with the confidence of laboratory analyses.

Well Development

The groundwater monitoring well was developed by PACIFIC. The well development procedures consisted of first measuring the water level in the well with an electronic water-level indicator, and checking the well for the presence of separate-phase hydrocarbons using a clear Teflon bailer or an oil-water interface probe. The well was then surged using a surge block which forces the fine-grained material out of the sandpack and back into the formation. After surging, the well was purged of approximately ten casing volumes using a bailer or centrifugal pump, during which time temperature, pH, and electrical conductivity were monitored to indicate that a representative sample was obtained. After purging, the water level in the well was allowed to restabilize.

Rinsate, Purge, and Development Waters, and Soil Cuttings Storage and Disposal

Waters produced during field activities were transported via a purge trailer and disposed of at a state-certified treatment and disposal facility. When necessary, waters were temporarily stored on site in DOT-approved 55-gallon drum pending transport and disposal. Drilling cuttings were stored on plastic and then sampled and analyzed for total purgeable petroleum hydrocarbons calculated as gasoline (EPA Method 8015), benzene, toluene, ethylbenzene, and total xylenes (EPA Method 8020). Upon receipt of analytical results (approximately 2 weeks), waste soils were transported for disposal at a California approved waste disposal facility.

Primary Divisions		Group		Typical Names
		Symbol/Graphic		
COARSE GRAINED SOILS more than half is larger than #200 sieve	GRAVELS half of coarse fraction larger than #4 sieve	CLEAN GRAVELS (less than 5% fines)	GW 	Well graded gravels, gravel-sand mixtures; little or no fines
			GP 	Poorly graded gravels or gravel-sand mixtures; little or no fines
		GRAVEL WITH FINES	GM 	Silty gravels, gravel-sand-silt mixtures
			GC 	Clayey gravels, gravel-sand-clay mixtures
	SANDS half of coarse fraction smaller than #4 sieve	CLEAN SANDS (less than 5% fines)	SW 	Well graded sands, gravelly sands, little or no fines
			SP 	Poorly graded sands or gravelly sands; little or no fines
		SANDS WITH FINES	SM 	Silty sands, sand-silt mixtures
			SC 	Clayey sands, sand-clay mixtures, plastic fines
FINE GRAINED SOILS more than half is smaller than #200 sieve	SILTS AND CLAYS liquid limit less than 50%	ML 	Inorganic silts and very fine sand, rock flour, silty or clayey fine sands or clayey silts, with slight plasticity	
		CL 	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
		OL 	Organic silts and organic silty clays of low plasticity	
	SILTS AND CLAYS liquid limit more than 50%	MH 	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	
		CH 	Inorganic clays of high plasticity, fat clays	
		OH 	Organic clays of medium to high plasticity, organic silts	
HIGHLY ORGANIC SOILS		Pt 	Peat and other highly organic soils	



PACIFIC ENVIRONMENTAL GROUP, INC.

Unified Soil Classification System

WELL LOG KEY TO ABBREVIATIONS

Drilling Method

HSA - Hollow stem auger
CFA - Continuous flight auger
Air - Reverse air circulation

Gravel Pack

CA - Coarse aquarium sand

Sampling Method

Cal. Mod. - California modified split-spoon sampler (2" inner diameter) driven 18" by a 140-pound hammer having a 30" drop. Where penetration resistance is designated "P", sampler was instead pushed by drill rig.
Disturbed - Sample taken from drill-return materials as they surfaced.
Shelby - Shelby Tube thin-walled sampler (3" diameter), where sampler is pushed by drill-rig.

Moisture Content

Dry - Dry
Dp - Damp
Mst - Moist
Wt - Wet
Sat - Saturated

Sorting

PS - Poorly sorted
MS - Moderately sorted
WS - Well sorted

Plasticity

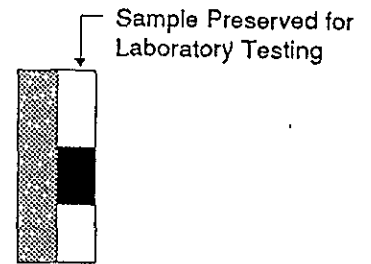
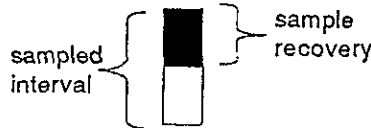
L - Low
M - Moderate
H - High

H-NU (ppm)

ND - No detection

Symbols

▽ - First encountered ground water
▼ - Static ground water level



Density (Blows/Foot - Cal Mod Sampler)

Sands and gravels

0 - 5 - Very Loose
5 - 13 - Loose
13 - 38 - Medium dense
38 - 63 - Dense
over 63 - Very dense

Silts and Clays

0 - 2 - Very Soft
2 - 4 - Soft
4 - 9 - Firm
9 - 17 - Stiff
17 - 37 - Very Stiff
37 - 72 - Hard
over 72 - Very Hard

GRAIN - SIZE SCALE

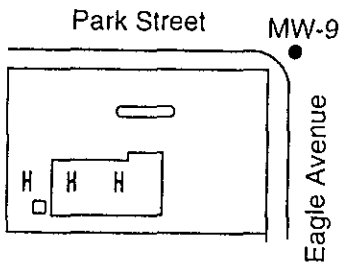
GRADE LIMITS

U.S. Standard

GRADE NAME

inch	sieve size	
12.0		Boulders
3.0	3.0 in.	Cobbles
0.19	No. 4	Gravels
0.08	No. 10	coarse
	No. 40	medium
	No. 200	fine
		Silt
		Clay Size

LOCATION MAP



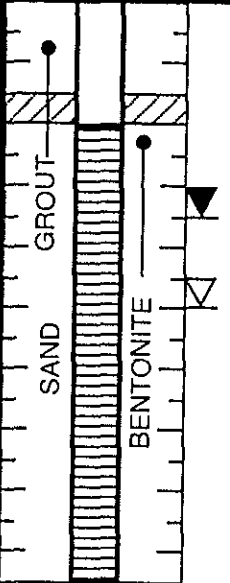
PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. MW-9
PAGE 1 OF 1

PROJECT NO. 286-001.3C
 LOGGED BY: DA
 DRILLER: V&W DRILLING
 DRILLING METHOD: HSA
 SAMPLING METHOD: CALMOD
 CASING TYPE: SCH 40 PVC
 SLOT SIZE: 0.020"
 SAND PACK: #3 SAND

CLIENT: TEXACO
 DATE DRILLED: 9-11-95
 LOCATION: 1726 Park Street
 HOLE DIAMETER: 8"
 HOLE DEPTH: 19'
 WELL DIAMETER: 2"
 WELL DEPTH: 19'
 CASING STICKUP: 1'

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2				ASPHALT: roadbase rock.
				4			SC	CLAYEY SAND: olive; 15-25% clay; 5-10% silt; 65-70% fine to medium sand; loose; moderate product odor.
			12	6				
				8				
			32	10			SP	SAND: dark yellowish brown; 5-10% fines; 80-85% fine sand; abundant mafics; medium dense; no product odor.
				12				
			38	14			SC	CLAYEY SAND: olive; 25-30% clay; 5-10% silt; 60-65% fine sand; trace medium sand; <0.5mm root lets; medium dense; moderate product odor.
				16				
			41	18			SP	SAND: yellowish brown; 5-10% fines; 85-90% fine sand; 5-10% medium sand; trace coarse sand; dense; no product odor.
				20				
				22				
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				
BOTTOM OF BORING AT 19'								



ATTACHMENT B

**MONITORING WELL INSTALLATION AND
DESTRUCTION PERMITS**



PACIFIC
ENVIRONMENTAL
GROUP INC.

SENT

MAILED BY HAND
 FEDEX COURIER
 FAXED FINAL
 JPS DRAFT

Date: 11/2 Int. AD

Date: November 2, 1995
 Project: 286-001.3C

To: Department of Water Resources
3251 "S" Street
Sacramento, CA 95816

We have enclosed:

Copies	Description
<u>2</u>	<u>Well Completion report for the installation of Well MW-9 and the</u> <u>destruction of Wells MW-1 through MW-4, MW-6, MW-7 and MW-9.</u>
<u>1</u>	<u>Copy of permit</u>
	<u>Re: 1726 Park St., Alameda</u>

For your: X Use
 ___ Approval
 ___ Review
 X Information

Comments: Please call if you have any questions.

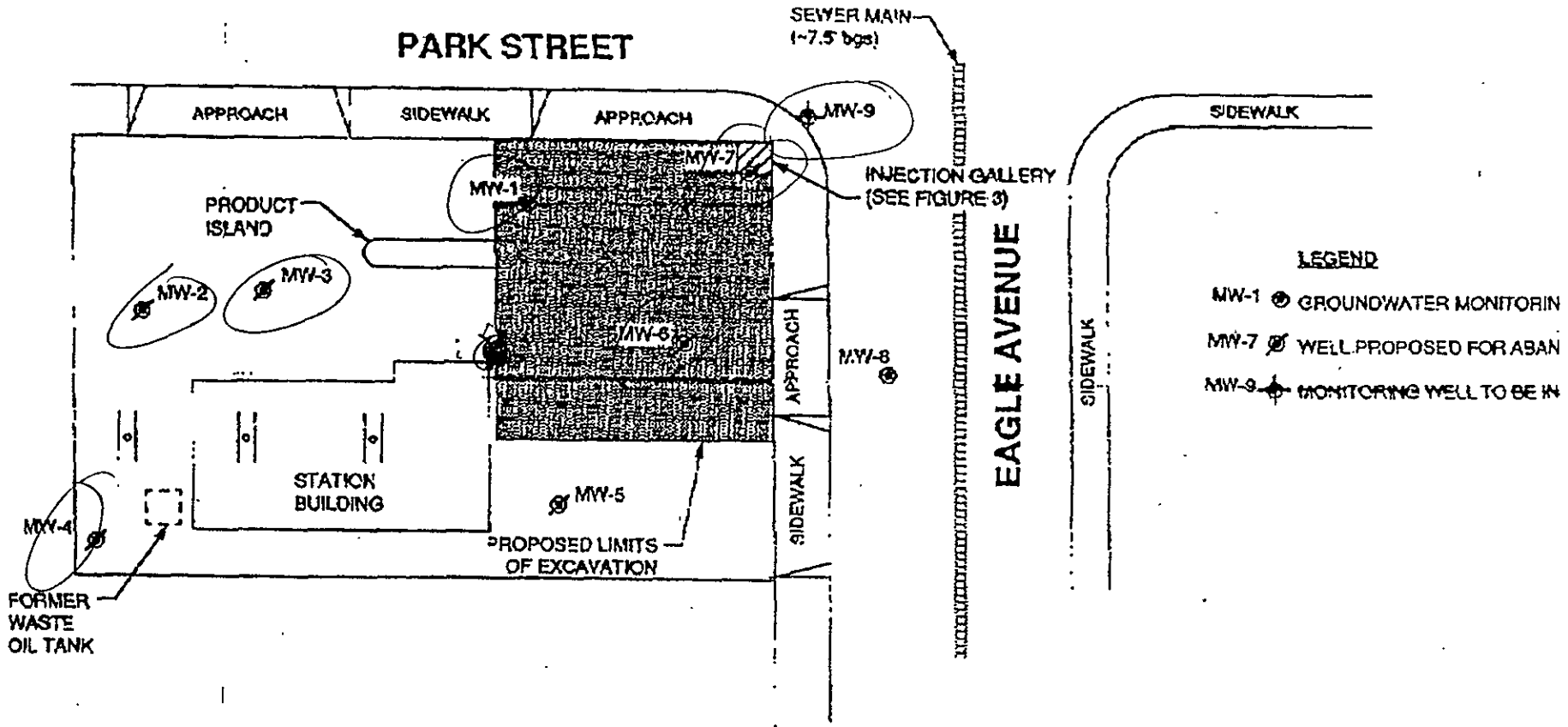
Thank You
Rhonda DeJung

cc: Alameda County Zone 7

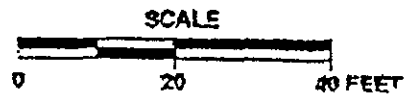
CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED



PACIFIC ENVIRONMENTAL GROUP, INC.



ESTATE OF JOHN B. HENRY
1726 Park Street at Eagle Avenue
Alameda, California

SITE PLAN

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

PROJECT NO. 286-001.3C
LOGGED BY: DA
DRILLER: V&W Drilling
DRILLING METHOD: HSH
SAMPLING METHOD: Calmed
CASING TYPE: Sch 40 A/C
SLOT SIZE: .020
GRAVEL PACK: #3

CLIENT:
DATE DRILLED: 9-11-95
LOCATION:
HOLE DIAMETER: 8"
HOLE DEPTH: 19'
WELL DIAMETER: 2"
WELL DEPTH: 19'
CASING STICKUP: -

NORTHING EASTING ELEVATION

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2				Asphalt, (base) rock
				4			SC	Clayey sand; siline 15-25; clay 5-10; silty; 65-70; fine to med sand; trace; inst-wet; MPO
	1.8%	987	6/6	6				
				8				
				10			SP	Sand; dk yellowish brown; 5-10% fines; 80-85% fine sand; in dense; abundant matrix; NPO
				12				
				14			SC	Clayey sand; siline 25-30; clay 5-10; silty; 65-60; fine sand; trace med; 6.5mm rootlets; sat; MPO
				16				
				18			SP	Sand; yellowish brown; 5-10% fines; 85-90% fine sand; 5-10% med sand; trace coarse; sat; NPO
				20				

Sandy siltstone



ZONE WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1726 Park St @
Eagle
Alameda, Ca

PERMIT NUMBER 95464
LOCATION NUMBER 2S/3W 7L80

CLIENT

Name Estate of John B. Henry c/o Mondrian & Brown
Address 1040 Marina Village Voice (510) 521-1211
City Suit B, Alameda, Ca Zip _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT

Name Pacific Environmental Group Inc
Address 2025 Gateway Pl Fax (408) 441-7539
City San Jose, Ca Voice 411-7500, 202
Zip 95122

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

TYPE OF PROJECT

Well Construction	Geotechnical Investigation
Cathodic Protection _____	General _____
Water Supply _____	Contamination _____
Monitoring _____	Well Destruction <input checked="" type="checkbox"/>
<u>Construction of MW-1, MW-2, MW-3, MW-4, MW-6 & MW-7</u>	
PROPOSED WATER SUPPLY WELL USE	
Domestic _____	Industrial _____
Municipal _____	Irrigation _____
	Other _____

DRILLING METHOD:

Mud Rotary _____ Air Rotary _____ Auger (MW-4)
Cable _____ Other _____

DRILLER'S LICENSE NO. C57-374152

WELL PROJECTS

Drill Hole Diameter	<u>8</u> in.	Maximum	
Casing Diameter	<u>2</u> in.	Depth	<u>2</u> ft.
Surface Seal Depth	<u>5</u> ft.	Number	<u>1</u> (MW-4)

GEOTECHNICAL PROJECTS

Number of Borings	_____	Maximum	
Hole Diameter	_____ in.	Depth	_____ ft.

ESTIMATED STARTING DATE 8/15/95
ESTIMATED COMPLETION DATE 8/17/95

Approved Wyman Hong Date 26 Jul. 95
Wyman Hong

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S

31 July 1995

ZONE 7
WATER RESOURCES ENGINEERING
DRILLING ORDINANCE

ESTATE OF JOHN HENRY
1726 PARK STREET
ALAMEDA
WELL 2S/3W 7L80
PERMIT 95464

Destruction Requirements

1. Drill out the well so that the casing, seal, and gravel pack are removed to the bottom of the well.
2. Using a tremie pipe, fill the hole to 2 feet below the lower of finished grade or original ground with neat cement.
3. After the seal has set, backfill the remaining hole with compacted material.

These destruction requirements as proposed by Lance Geselbracht Pacific Environmental meet or exceed the Zone 7 minimum requirements.

Post-it Fax Note	7671	Date	10/31/95	# of pages	2
To	RHONDA	From	WYMAN		
Co./Dept.	PACIFIC	Co.	ZONE 7		
Phone #		Phone #	(510) 484-2600		
Fax #	(408) 441-9102	Fax #	X 235		

31 July 1995

ZONE 7
WATER RESOURCES ENGINEERING
DRILLING ORDINANCE

ESTATE OF JOHN HENRY
1726 PARK STREET
ALAMEDA
WELL 2S/3W 7L80
PERMIT 95464

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ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1726 Park St @
Eagle
Alameda, Ca

PERMIT NUMBER 95464
LOCATION NUMBER 2S/3W 7L80

OWNER Estate of John B. Henry c/o Mendelson & Brown
1040 Marina Village Voice (510) 521-1211
Suit B, Alameda, Ca Zip

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT Pacific Environmental Group Inc.
2025 Gateway Pl San Jose, Ca Zip 95112
Fax (408) 441-7539
Voice 441-7500, 202

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
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D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

TYPE OF PROJECT		Geotechnical Investigation	
Construction		General	_____
Cathodic Protection	_____	Contamination	_____
Water Supply	_____	Well Destruction	<u>X</u>
Monitoring		Construction of MW-1, MW-2, MW-3, MW-4, MW-6 & MW-7	
PROPOSED WATER SUPPLY WELL USE		Municipal _____	
Domestic _____	Industrial _____	Irrigation _____	Other _____

DRILLING METHOD:
Rotary _____ Air Rotary _____ Auger X (MW-9)
Cable _____ Other _____

DRILLER'S LICENSE NO. 057-374152

WELL PROJECTS			
Drill Hole Diameter	<u>8</u> in.	Maximum	
Casing Diameter	<u>2</u> in.	Depth	<u>2</u> ft.
Surface Seal Depth	<u>5</u> ft.	Number	<u>1 (MW-9)</u>

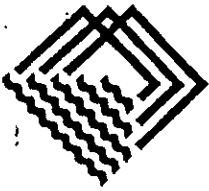
GEOTECHNICAL PROJECTS			
Number of Borings	_____	Maximum	
Hole Diameter	_____ in.	Depth	_____ ft.

ESTIMATED STARTING DATE 8/15/95
ESTIMATED COMPLETION DATE 8/17/95

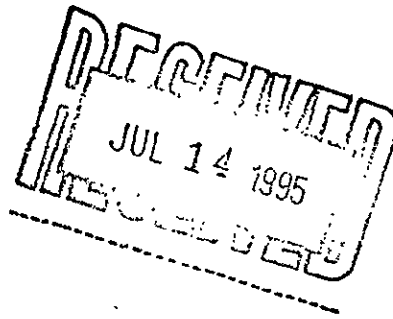
Applicant hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

Approved Wyman Hong Date 26 Jul 95
Wyman Hong

APPLICANT'S NATURE Le-cekwell Drilling Date 7/12/95



PACIFIC
ENVIRONMENTAL
GROUP, INC.



July 12, 1995
Project 286.001-3C

Mr. Wyman Hong
Zone 7 Water Agency
5997 Parkside Drive
Pleasanton, California 94588

Re: Estate of John Henry
1726 Park St.
Alameda, California

Dear Mr. Hong:

Pacific Environmental Group, Inc. is submitting this application for well abandonment for the site referenced above. This wells need to be abandoned as part of remedial efforts to be implemented for the site. The permit application fees will be submitted by the successful remediation contractor selected by competitive bid in approximately two weeks from the date of this letter.

If you have any questions concerning this application, please call me.

Sincerely,

Pacific Environmental Group, Inc.

Lance D. Geselbracht, P.E.
Senior Engineer

Attachments: Permit Application with Boring Logs attached

cc: Michael Brown, Mendelson and Brown (Estate)
Marvin Katz, Texaco



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1726 Park St @
Eagle
Alameda, Ca

PERMIT NUMBER _____
LOCATION NUMBER _____

APPLICANT Estate of John B. Henry c/o Mendelson & Brown
Address 1040 Marina Village Voice (510) 521-1211
Suit B, Alameda, Ca Zip

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT Pacific Environmental Group Inc.
Address 2025 Gateway Pl San Jose, Ca Zip 95112
Fax (408) 441-7539
Voice 415-7500-202

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER

WATER METER

Minimum seal depth is two inches of cement grout

Minimum seal depth for municipal and industrial wells is two inches of cement grout. For irrigation wells unless a lesser minimum seal depth for minimum depth practicable or 20 feet. In addition, tremied cement grout with compacted cuttings or with compacted material. In addition, tremied cement grout with concrete placed by

USE OF PROJECT

Construction _____	Geotechnical Investigation _____
Radioactive Protection _____	General _____
Water Supply _____	Contamination _____
Monitoring _____	Well Destruction <input checked="" type="checkbox"/> _____
Construction of MW-1, MW-2, MW-3, MW-4 _____	Other _____
PROPOSED WATER SUPPLY WELL USE _____	
Residential _____	
Industrial _____	
Commercial _____	
Irrigation _____	

Mail to Wyman Hong

DIGGING METHOD:

Rotary _____ Air Rotary _____ Auger (1) _____
Other _____

APPLICANT'S LICENSE NO. C57-374152

WELL PROJECTS

Drill Hole Diameter 8 in. Maximum _____
Casing Diameter 2 in. Depth 2
Surface Seal Depth 5 ft. Number 10

TECHNICAL PROJECTS

Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____

ANTICIPATED STARTING DATE 8/15/95
ANTICIPATED COMPLETION DATE 8/17/95

Approved _____ Date _____

Applicant agrees to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Lo-Edward [Signature] Date 7/12/95

PROJECT NO. 286-001.3C
SITE ADDRESS 1726 Park St. Alameda
OFFICE OF BUSINESS AT SITE vacant

GEOLOGIST Lance Geselbracht
DRILLING COMPANY Ed Green Drilling
ESTIMATED START/END DATE 8/10/95 - 8/12/95

*****ATTACH MAP WITH PROPOSED LOCATIONS*****

MONITORING WELL CONSTRUCTION PERMIT

NUMBER OF WELLS ON SITE? _____ DEPTH/DIAMETER _____
(designation)

NUMBER OF WELLS OFF SITE? MW-9 DEPTH/DIAMETER 20'
(designation)

TYPE OF WELL (Check one)	
Vapor	_____
Groundwater	<u>X</u>
Extraction	_____
Dual Casing (provide well detail)	_____
Other	_____

ANNULAR SEAL DEPTH 5' ANNULAR SEAL MATERIAL Portland & Bentonite Mix

- WELL TO BE CONSTRUCTED WITHIN 50 FEET OF:
- a. The top of a creek bank? No
 - b. Sanitary sewer line? X
 - c. Septic tank? No
 - d. Cesspool? No

BORING/HYDROPUNCH/GEOPROBE PERMIT

PERMIT FOR BORING _____ HYDROPUNCH _____ GEOPROBE _____

NUMBER OF BORINGS ON SITE? _____ DEPTH/DIAMETER _____
(designation)

NUMBER OF BORINGS OFF SITE? _____ DEPTH/DIAMETER _____
(designation)

WELL DESTRUCTION PERMIT

NUMBER OF WELLS ON SITE? MW-1, 2, 3, 4, 6, 7
(designation)

NUMBER OF WELLS OFF SITE? _____
(designation)

REASON FOR DESTRUCTION (check one)	
a. No longer needed	_____
b. Casing collapsed	_____
c. Poor water quality	_____
d. Land development	<u>X</u>
e. Other (explain)	_____

- DOES WELL HAVE:
- a. Outer conductor casing? No
 - b. Annular concrete seal outside of casing (provide boring log if possible)? 5'
 - c. A gravel envelope outside of casing at surface? No
 - d. Well depth? 20'

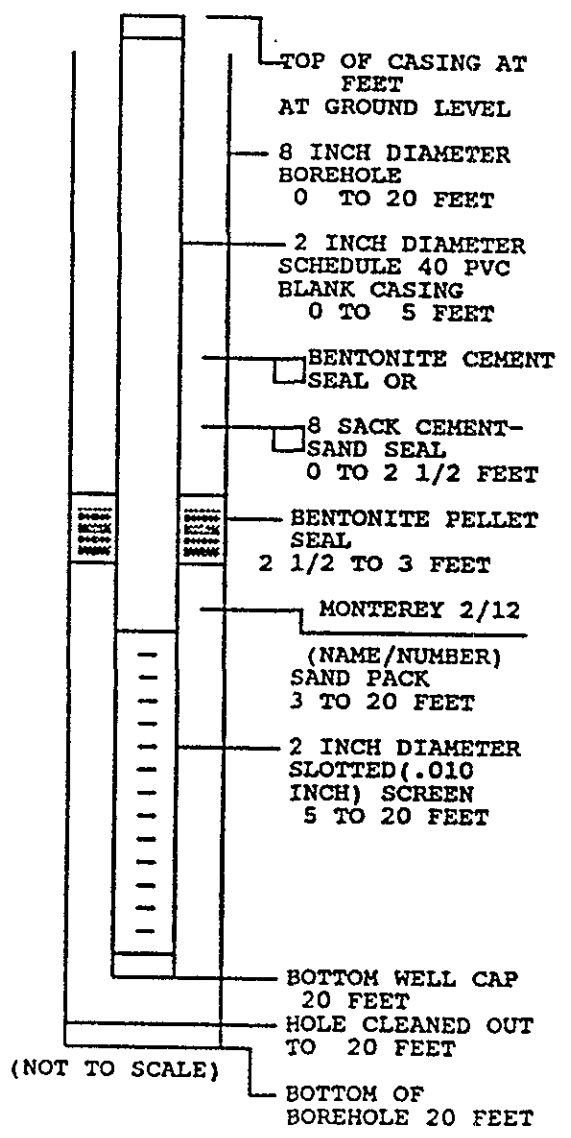
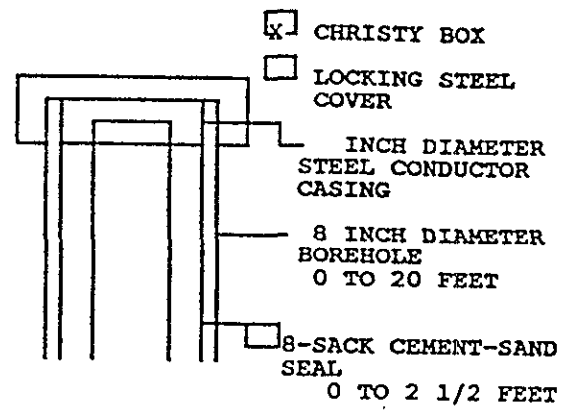
METHOD OF DESTRUCTION: _____

ADDITIONAL COMMENTS

FIELD WELL COMPLETION FORM

WELL MW-1

PROJECT NAME: ESTATE OF JOHN B HENRY	
PROJECT NUMBER: 104891	MGR: MICHAEL PRINCEVALLE
LOGGER: M PRINCEVALLE	EDITED BY:
WELL NAME: MW - 1	DATE: 05-09-92
DRILLING CO.: K L Drilling	
EQUIPMENT:	DRILLER: KEN LINK
<input checked="" type="checkbox"/> 8 INCH HOLLOW STEM AUGER	HRS. DRILLED: 1 1/2
<input type="checkbox"/> INCH ROTARY WASH	
GALLONS OF WATER USED DURING DRILLING: 0 GALLONS	
METHOD OF DECONTAMINATION PRIOR TO DRILLING: Steam Cleaning w/soap solution	
DEVELOPMENT	
METHOD OF DEVELOPMENT: Honda Pump	
DEVELOPMENT DATE: 05-08-92 TIME: 14:15	
YIELD: GPM	TIME: FROM TO DATE:
YIELD: GPM	TIME: FROM TO DATE:
YIELD: GPM	TIME: FROM TO DATE:
YIELD: GPM	TIME: FROM TO DATE:
TOTAL WATER REMOVED DURING DEVELOPMENT: 27 GALLONS	
DESCRIPTION OF TURBIDITY AT END OF DEVELOPMENT	
<input type="checkbox"/> CLEAR <input type="checkbox"/> MOD. TURBID <input checked="" type="checkbox"/> SLIGHTLY CLOUDY <input type="checkbox"/> VERY MUDDY	
ODOR OF WATER: PETROLEUM-LIKE	
WATER DISCHARGED TO: Drums	
DEPTH TO WATER AFTER DEVELOPMENT: 7 FEET	
MATERIALS USED	
4 1/2 SACKS OF 2/12 MONTEREY SAND 1 1/2 SACKS OF PORTLAND I-II CEMENT 0 GALLONS OF GROUT USED 0 SACKS OF POWDERED BENTONITE 1/2 BUCKET OF BENTONITE PELLETS 0-5 FEET OF 2 INCH PVC BLANK CASING 5-20 FEET OF 2 INCH PVC SLOTTED SCREEN 0 FEET OF INCH STEEL CONDUCTOR CASING 0 YARD CEMENT-SAND (REDI-MIX) ORDERED 0 YARD CEMENT-SAND (REDI-MIX) USED	
CONCRETE PUMPER USED? <input type="checkbox"/> NO <input type="checkbox"/> YES	
WELL COVER USED: CHRISTY BOX	
SILT TRAP USED? <input type="checkbox"/> NO <input type="checkbox"/> YES	

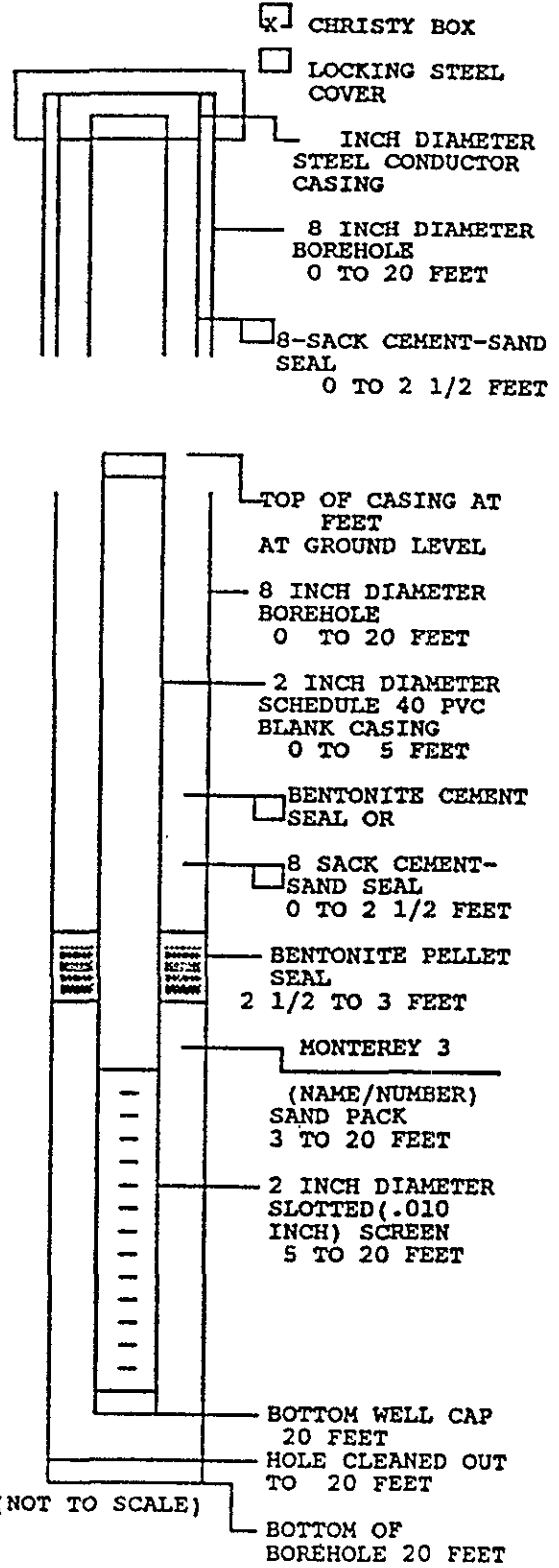


ADDITIONAL INFORMATION:

FIELD WELL COMPLETION FORM

WELL MW-2

PROJECT NAME: ESTATE OF JOHN B HENRY	
PROJECT NUMBER: 104891	MGR: MICHAEL PRINCEVALLE
LOGGER: M PRINCEVALLE	EDITED BY:
WELL NAME: MW - 2	DATE: 05-09-92
DRILLING CO.: K L Drilling	
EQUIPMENT:	DRILLER: KEN LINK
<input checked="" type="checkbox"/> 8 INCH HOLLOW STEM AUGER.	HRS. DRILLED: 1 1/2
<input type="checkbox"/> INCH ROTARY WASH	
GALLONS OF WATER USED DURING DRILLING: 0 GALLONS	
METHOD OF DECONTAMINATION PRIOR TO DRILLING: Steam Cleaning w/soap solution	
DEVELOPMENT	
METHOD OF DEVELOPMENT: Honda Pump	
DEVELOPMENT DATE: 05-08-92 TIME: 14:15	
YIELD: GPM	TIME: FROM TO DATE:
YIELD: GPM	TIME: FROM TO DATE:
YIELD: GPM	TIME: FROM TO DATE:
YIELD: GPM	TIME: FROM TO DATE:
TOTAL WATER REMOVED DURING DEVELOPMENT: 27 GALLONS	
DESCRIPTION OF TURBIDITY AT END OF DEVELOPMENT	<input type="checkbox"/> CLEAR <input type="checkbox"/> MOD. TURBID <input checked="" type="checkbox"/> SLIGHTLY CLOUDY <input type="checkbox"/> VERY MUDDY
ODOR OF WATER:	
WATER DISCHARGED TO: Drums	
DEPTH TO WATER AFTER DEVELOPMENT: 47 FEET	
MATERIALS USED	
3 SACKS OF #3 MONTEREY SAND 1 1/2 SACKS OF PORTLAND I-II CEMENT 0 GALLONS OF GROUT USED 0 SACKS OF POWDERED BENTONITE 1/2 BUCKET OF BENTONITE PELLETS 0-5 FEET OF 2 INCH PVC BLANK CASING 5-20 FEET OF 2 INCH PVC SLOTTED SCREEN 0 FEET OF INCH STEEL CONDUCTOR CASING 0 YARD CEMENT-SAND (REDI-MIX) ORDERED 0 YARD CEMENT-SAND (REDI-MIX) USED	
CONCRETE PUMPER USED?	<input type="checkbox"/> NO <input type="checkbox"/> YES
WELL COVER USED	CHRISTY BOX
SILT TRAP USED?	<input type="checkbox"/> NO <input type="checkbox"/> YES



ADDITIONAL INFORMATION:

LOG OF BORING NUMBER MW-1

PROJECT NAME: THE ESTATE OF JOHN B. HENRY		PROJECT NUMBER: 104891	SHEET 1 OF 2
LOCATION: 1726 PARK STREET, ALAMEDA, CALIFORNIA 94501			DATE: 5-8-92
DRILLER: K L DRILLING		DRILL METHOD: HOLLOW STEM	
LICENSE #:		SAMPLE METHOD: 2" SPLIT SPOON	
AGENCY: ALAMEDA COUNTY HEALTH DEPT		INSPECTOR:	BORING DIA.: 8"
LOGGER: MICHAEL PRINCEVALLE		APPROVED BY:	TOTAL DEPTH: 20'

** NOTICE - LIMITATIONS APPLY TO THIS LOG - SEE ATTACHED KEY SHEET **

SAMPLE LABEL	SAMPLE DEPTH	REC	BLOWS /FT	PPMV	MODE	DEPTH FEET	LEGEND USCS	DESCRIPTION	STAIN/ OTHER
						0		0-3" ASPHALT	
						1			
						2			
						3			
MW-1-1	4 1/2 - 5'	70	12	4		4		Clayey SAND → Sandy CLAY; Brown w/red orange mottles; Moist; Firm	No
						5			
						6		Staining contact @ 6 1/2-7'	
MW-1-2	7- 7 1/2'	100	32	100		7		Clayey SAND; Brown w/ gray mottles/staining; Moist; Firm	Yes
						8		change to continous sampling; 2 1/2" I. D. Sampler soils sampled for logging	
	8 1/2- 9 1/2'	30	36			9		Medium sand; Brown; Very moist; Loose	Slt.
						10			
	9 1/2- 11 1/2'	100				11		Medium SAND; Brown w./ Few faint red- orange mottles; Wet; Friable	No
						12		Changed to sampler to 1 1/2" I.D.	
	11 1/2 - 13 1/2'		10			13		Fine to Medium SAND, some Clay; Brown; Wet; Friable	
						14			
						15			

THIS LOG OF SUBSURFACE CONDITIONS APPLIES ONLY AT THE SPECIFIC LOCATION AND DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF CONDITIONS AT OTHER LOCATIONS AND TIMES.

LOG OF BORING NUMBER MW-1

PROJECT NAME: THE ESTATE OF JOHN B. HENRY		PROJECT NUMBER: 104891	SHEET 2 OF 2
LOCATION: 1726 PARK STREET, ALAMEDA, CALIFORNIA 94501			DATE: 5-8-92
DRILLER: K L DRILLING		DRILL METHOD: HOLLOW STEM	
LICENSE #:		SAMPLE METHOD: 2" SPLIT SPOON	
AGENCY: ALAMEDA COUNTY HEALTH DEPT		INSPECTOR:	BORING DIA.: 8"
LOGGER: MICHAEL PRINCEVALLE	APPROVED BY:		TOTAL DEPTH: 20'

** NOTICE - LIMITATIONS APPLY TO THIS LOG - SEE ATTACHED KEY SHEET **

SAMPLE LABEL	SAMPLE DEPTH	REC %	BLOWS /FT	PPMV	MODE	DEPTH FEET	LEGEND USCS	DESCRIPTION	STAIN/ OTHER
	141/2-16'		24			15		Fine to Medium SAND; Brown, some gray (staining?) Many distinct olive mottles; Very moist to Wet; Friable	
						16			
						17		Fine SAND; Gray w/ few faint olive mottles; Very Moist to Wet, Firm	
MW-1-3	171/2-18'		20	20		18			
	18-20'		18	5		19			
						20		Boring terminated at 20'	
						21			
						22		WELL CASING & SLOT STEAM CLEANED AT SITE.	
						23		Cement Seal: 0 - 2 1/2' Bentonite spacer: 2 1/2-3' Blank well casing: 0-5' Well slot: 5-20' Sand Pack 3-20' 4 1/2 sacks #2/12 Sand	
						24			
						25			
						26		Sampler washed with soapy water between use.	
						27			
						28			
						29			
						30			

THIS LOG OF SUBSURFACE CONDITIONS APPLIES ONLY AT THE SPECIFIC LOCATION AND DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF CONDITIONS AT OTHER LOCATIONS AND TIMES.

LOG OF BORING NUMBER MW-2

OBJECT NAME: THE ESTATE OF JOHN B. HENRY		PROJECT NUMBER: 104891	SHEET 1 OF 2
LOCATION: 1726 PARK STREET, ALAMEDA, CALIFORNIA 94501			DATE: 5-8-92
DRILLER: K L DRILLING		DRILL METHOD: HOLLOW STEM 4" I D, 8" O D	
LICENSE #: C57-596309		SAMPLE METHOD: 2" SPLIT SPOON	
AGENCY: ALAMEDA COUNTY HEALTH DEPT		INSPECTOR:	BORING DIA.: 8"
LOGGER: MICHAEL PRINCEVALLE		APPROVED BY:	TOTAL DEPTH: 20'

** NOTICE - LIMITATIONS APPLY TO THIS LOG - SEE ATTACHED KEY SHEET **

SAMPLE LABEL	SAMPLE DEPTH	REC %	BLOWS /FT	PPMV	MODE	DEPTH FEET	LEGEND USCS	DESCRIPTION	STAIN/ OTHER
						0		0-3" ASPHALT	
						1			
						2			
						3			
MW-2-1	4-4 1/2'		18	3		4		Medium SAND; Brown; Moist; Friable	No
-2-2	5 1/2-6'		24	3		5		Medium SAND; some clay; Brown w/ many red-orange mottles; V. Moist; Friable.	No
						6			
						7			
						8			
						9			
						10			
						11			
						12			
						13		change to continous sampling; 1 1/2" sampler. Sample recovered for logging	
12-	13 1/2'		38			14		Medium sand; Brown w/some red orange mottles; Wet; Loose → Friable	No
						15			

THIS LOG OF SUBSURFACE CONDITIONS APPLIES ONLY AT THE SPECIFIC LOCATION AND DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF CONDITIONS AT OTHER LOCATIONS AND TIMES.

LOG OF BORING NUMBER MW-2

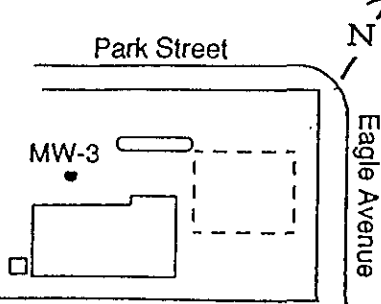
PROJECT NAME: THE ESTATE OF JOHN B. HENRY		PROJECT NUMBER: 104891	SHEET 2 OF 2
LOCATION: 1726 PARK STREET, ALAMEDA, CALIFORNIA 94501			DATE: 5-8-92
DRILLER: K L DRILLING		DRILL METHOD: HOLLOW STEM 4" I D, 8" O D	
LICENSE #: C57-596309		SAMPLE METHOD: 2" I. D. SPLIT SPOON	
AGENCY: ALAMEDA COUNTY HEALTH DEPT		INSPECTOR: N/A	BORING DIA.: 8"
LOGGER: MICHAEL PRINCEVALLE		APPROVED BY:	TOTAL DEPTH: 20'

** NOTICE - LIMITATIONS APPLY TO THIS LOG - SEE ATTACHED KEY SHEET **

SAMPLE LABEL	SAMPLE DEPTH	REC	BLOWS /FT	PPMV	MODE	DEPTH FEET	LEGEND USCS	DESCRIPTION	STAIN/ OTHER
						15			
						16			
						17			
	18'- 20'		24			18			
						19		Fine → Medium SAND; Brown w/ occasional red-orange mottles; V. moist; Wet; Loose - friable	No
						20		Boring terminated at 20'	
						21		Well casing and slot steamed cleaned at site	
						22			
						23		WELL CONSTRUCTION Cement Seal: 0 - 2 1/2' Bentonite spacer: 2 1/2-3' Blank well casing: 0-5' Well slot(0.010"): 5-20' Sand Pack(3 sacks #3 sand) 3-20'	
						24			
						25			
						26		Sampler and auger washed with soapy water between use.	
						27			
						28			
						29			
						30			

THIS LOG OF SUBSURFACE CONDITIONS APPLIES ONLY AT THE SPECIFIC LOCATION AND DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF CONDITIONS AT OTHER LOCATIONS AND TIMES.

LOCATION MAP



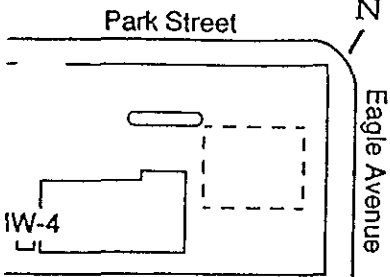
PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. MW-3
PAGE 1 OF 1

PROJECT NO. 286-001.1A
 LOGGED BY: LD
 DRILLER: TURNER
 DRILLING METHOD: HSA
 SAMPLING METHOD: Continuous Core
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2X12 SAND

CLIENT: Estate of JOHN B HENRY
 DATE DRILLED: 2-10-94
 LOCATION: 1726 Park Street
 HOLE DIAMETER: 8"
 HOLE DEPTH: 21'
 WELL DIAMETER: 2"
 WELL DEPTH: 19'
 CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	FID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUND SAND BENTONITE SAND BENTONITE	Dry			1			SP	2" ASPHALT: 1" GRAVEL SAND: dark yellowish brown; fine sand; no product odor.
				2				@1.5': as above.
				3				
				4				@4': as above; grades darker brown; trace clay <5%; no product odor.
	Mst		0	5				@5': as above; no product odor.
	Sat		1	6				@6': as above; increase in clay <10%; no product odor.
				7				
				8				
	Sat		0	9				@9': as above; no clay; no product odor.
				10				@9.5': light olive brown; mottled olive and brown; no product odor.
				11				
				12				@12': as above; no mottling; no product odor.
				13				
	Sat		0	14				
				15				@15': as above; no product odor.
				16				
				17				
				18				@18.5-19': as above; light olive brown mottled with dark grayish brown; no product odor.
				19				@19': dark grayish brown; trace clay <5%; rootholes with olive stain on rinds; no product odor.
	Sat		0	20			SC	CLAYEY SAND: dark gray; 20% clay; rootholes with olive stain on rinds; no product odor.
				21				
			22				BOTTOM OF BORING AT 21'	



PROJECT NO. 286-001.1A
 LOGGED BY: LD
 DRILLER: TURNER
 DRILLING METHOD: HSA
 SAMPLING METHOD: Continuous Core
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2X12 SAND

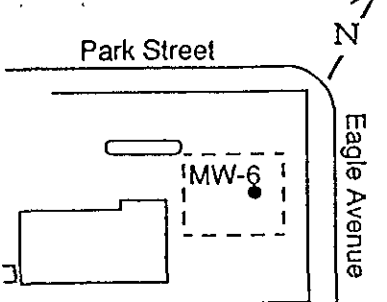
CLIENT: Estate of JOHN B HENRY
 DATE DRILLED: 2-10-94
 LOCATION: 1726 Park Street
 HOLE DIAMETER: 8"
 HOLE DEPTH: 20.5'
 WELL DIAMETER: 2"
 WELL DEPTH: 19'
 CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	FID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
	Dp			1			SP	ASPHALT 3"; GRAVEL 2"
				2				SAND: dark brown; fine sand; no product odor. @1.5': yellowish brown.
				3				@3': as above.
	Mst	0		5				@5': as above; 5-10% clay; no product odor.
	Sat	0		6				@6': as above; dark yellowish brown; no product odor.
	Sat	0		7				@7': as above; no product odor.
	Sat	1		8				@8-9': as above; olive; very faint product odor.
	Sat	0		9				@8.5': as above; no clay. @9': as above; dark yellowish brown; no product odor.
	Sat	0		10				@10': as above; no product odor.
	Sat	0		15				@14.5-15.5': 0-5% clay; partially consolidated; trace iron oxide; no product odor.
	Sat	0		19				@19.5': as above; trace rootholes; trace iron oxide; no product odor.
	Sat	0		20				@20': as above; 5% clay; no product odor.
				21				BOTTOM OF BORING AT 20.5'
				22				

Casing

BENTONITE

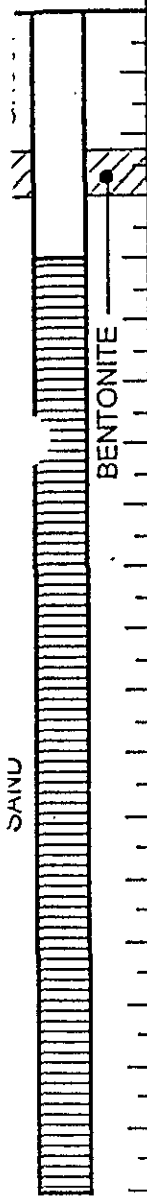




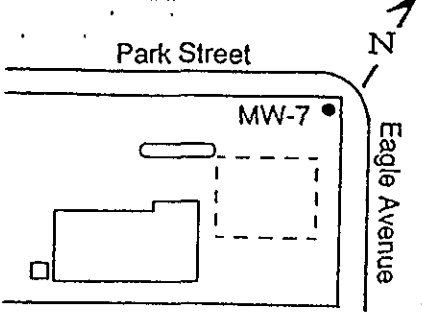
PROJECT NO. 286-001.1A
 LOGGED BY: RH
 DRILLER: TURNER
 DRILLING METHOD: HSA
 SAMPLING METHOD: Continuous Core
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2X12 SAND

CLIENT: Estate of JOHN B HENRY
 DATE DRILLED: 2-9-94
 LOCATION: 1726 Park Street
 HOLE DIAMETER: 8"
 HOLE DEPTH: 20'
 WELL DIAMETER: 2"
 WELL DEPTH: 19'
 CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	FID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
	Dp			1			SP	ASPHALT 2" SAND: dark olive brown; fine sand.
	Dp			2				
	Dp			3				@3.5': as above; very dark grayish brown; no product odor.
	Mst	215		4				
	Mst	215		5				@5': as above; faint product odor.
	Sat	154		6				
	Sat	154		7				@7': as above; dark gray; strong product odor.
				8				
				9				
				10				@10': as above; strong product odor.
				11				
				12				@12': as above; yellowish brown; no product odor.
				13				
				14				
			6	15				@15': as above; grading to dark grayish gray; 5-10% clay; no product odor.
				16				
				17				
				18				
				19				@19': as above; no product odor.
				20				
			0	21				
				22				
								BOTTOM OF BORING AT 20'



LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. MW-7
PAGE 1 OF 1

PROJECT NO. 286-001.1A
 LOGGED BY: RH
 DRILLER: TURNER
 DRILLING METHOD: HSA
 SAMPLING METHOD: Continuous Core
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2X12 SAND

CLIENT: Estate of JOHN B HENRY
 DATE DRILLED: 2-10-94
 LOCATION: 1726 Park Street
 HOLE DIAMETER: 8"
 HOLE DEPTH: 20'
 WELL DIAMETER: 2"
 WELL DEPTH: 19'
 CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	FID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT SAND BENTONITE	Dp			1			SP	ASPHALT 2" SAND: brown; fine sand; no product odor.
				2				@2': dark yellowish brown to dark brown; no product odor.
				3				
				4				
	Dp	0		5				@5': as above; no product odor.
	Wet			6				@6': as above; dark greenish gray; trace clay; moderate product odor.
	Sat	554		7				@7': as above; dark greenish gray; strong product odor.
				8				
				9				
	Sat	39		10				@10': as above; dark bluish gray; sulfurous odor; strong product odor.
				11				
				12				
				13				
	Sat	0		14				@13.5-14.5': as above; 5% clay partially consolidated; no product odor.
				15				@14.5': as above; bluish gray; trace clay; no product odor.
				16				
				17				
	Sat			18				@18.5': as above; no product odor.
				19				
				20				
			21					
			22					

BOTTOM OF BORING AT 20'

ATTACHMENT C

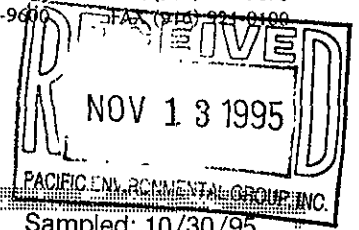
**CERTIFIED ANALYTICAL REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION**



**Sequoia
Analytical**

680 Chesapeake Drive Redwood City, CA 94063
404 N. Wiget Lane Walnut Creek, CA 94598
819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 FAX (415) 364-9233
(510) 988-9600 FAX (510) 988-9673
(916) 921-9600 FAX (916) 921-9100



Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Client Proj. ID: 286-001.1A/Alameda
Sample Descript: MWS
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9510L77-01

Sampled: 10/30/95
Received: 10/31/95
Analyzed: 11/01/95
Reported: 11/10/95

Attention: Maree Doden

IC Batch Number: GC110195BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	180
Benzene	0.50	2.6
Toluene	0.50	0.88
Ethyl Benzene	0.50	1.4
Xylenes (Total)	0.50	0.54
Chromatogram Pattern: Weathered Gas		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	122

Analyses reported as N.D. were not present above the stated limit of detection.

EQUOIA ANALYTICAL - ELAP #1210

Maree Fletcher

Maree Fletcher
Project Manager



Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Client Proj. ID: 286-001.1A/Alameda
Sample Descript: MW5
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9510L77-02

Sampled: 10/30/95
Received: 10/31/95
Analyzed: 11/01/95
Reported: 11/10/95

Attention: Maree Doden

GC Batch Number: GC110195BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Table with columns: Analyte, Detection Limit ug/L, Sample Results ug/L. Rows include TPHH as Gas, Benzene, Toluene, Ethyl Benzene, Xylenes (Total), Chromatogram Pattern, Surrogates, and Trifluorotoluene.

analytes reported as N.D. were not present above the stated limit of detection.

EQUOIA ANALYTICAL - ELAP #1210

Handwritten signature of B. Fletcher

Bucie Fletcher
Project Manager



Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Maree Doden

GC Batch Number: GC1101950HBPEXZ
Instrument ID: GCHP4A

Client Proj. ID: 286-001.1A/Alameda
Sample Descript: MW5
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9510L77-02

Sampled: 10/30/95
Received: 10/31/95
Extracted: 11/01/95
Analyzed: 11/07/95
Reported: 11/10/95

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	650
		C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 123

Analyses reported as N.D. were not present above the stated limit of detection.

EQUOIA ANALYTICAL - ELAP #1210

Lucie Fletcher
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Client Proj. ID: 286-001.1A/Alameda
Sample Descript: TB-1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9510L77-03

Sampled: 10/30/95
Received: 10/31/95
Analyzed: 11/01/95
Reported: 11/10/95

Attention: Maree Doden

C Batch Number: GC110195BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		N.D.

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	102

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

B. Fletcher
Project Manager



Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Client Project ID: 286-001.1A/Alameda
Matrix: LIQUID

Attention: Maree Doden

Work Order #: 9510L77 02

Reported: Nov 10, 1995

QUALITY CONTROL DATA REPORT

Analyte: Diesel
QC Batch#: GC1101950HBPEXZ
Analy. Method: EPA 8015 Mod.
Prep. Method: EPA 3520

Analyst: B. Ali
MS/MSD #: 9510L8002
Sample Conc.: 580
Prepared Date: 11/1/95
Analyzed Date: 11/3/95
Instrument I.D.#: GCHP4B
Conc. Spiked: 1000 µg/L

Result: 1500
MS % Recovery: 92

Dup. Result: 1400
MSD % Recov.: 82

RPD: 6.9
RPD Limit: 0-50

LCS #: BLK110195
Prepared Date: 11/1/95
Analyzed Date: 11/3/95
Instrument I.D.#: GCHP4B
Conc. Spiked: 1000 µg/L

LCS Result: 1000
LCS % Recov.: 100

MS/MSD
LCS 38-122
Control Limits

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS= Matrix Spike, MSD= MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

B. Fletcher
Bruce Fletcher
Project Manager



Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Client Project ID: 286-001.1A/Alameda
Matrix: LIQUID

Work Order #: 9510L77 01-03

Reported: Nov 10, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC110195BTEX22A	GC110195BTEX22A	GC110195BTEX22A	GC110195BTEX22A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Lee	R. Lee	R. Lee	R. Lee
MS/MSD #:	9510K7803	9510K7803	9510K7803	9510K7803
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/1/95	11/1/95	11/1/95	11/1/95
Analyzed Date:	11/1/95	11/1/95	11/1/95	11/1/95
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.7	10	11	31
MS % Recovery:	97	100	110	103
Dup. Result:	10	10	10	30
MSD % Recov.:	100	100	100	100
RPD:	3.0	0.0	9.5	3.3
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK110195	BLK110195	BLK110195	BLK110195
Prepared Date:	11/1/95	11/1/95	11/1/95	11/1/95
Analyzed Date:	11/1/95	11/1/95	11/1/95	11/1/95
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.4	9.8	9.9	31
LCS % Recov.:	94	98	99	103

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
---------------------------	--------	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

B. Fletcher
Bruce Fletcher
Project Manager

CLIENT NAME: PEG
 REC. BY (PRINT): MY

WORKORDER: 9510L77
 DATE OF LOG-IN: 10-31-95

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION(ETC.)
1. Custody Seal(s)	Present <input checked="" type="checkbox"/> Absent	1	AC	MW8	VIA (3)	LIO	10/30	
	Intact / Broken*	2	↓	MW5	VIA (3)	↓	↓	
2. Custody Seal Nos.:	Put in Remarks Section	3	AB	TB-1	VIA (2)	↓	↓	
3. Chain-of-Custody Records:	Present <input checked="" type="checkbox"/> Absent*	2	DE	MW5	AMB (2)	↓	↓	
4. Traffic Reports or Packing List:	Present <input checked="" type="checkbox"/> Absent							
5. Airbill:	Airbill / Sticker Present <input checked="" type="checkbox"/> Absent							
6. Airbill No.:								
7. Sample Tags:	Present <input checked="" type="checkbox"/> Absent*							
	Sample Tag Nos.: Listed <input checked="" type="checkbox"/> Not Listed on Chain-of-Custody							
8. Sample Condition:	Intact <input checked="" type="checkbox"/> Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample tags agree?	Yes <input checked="" type="checkbox"/> No*							
10. Proper preservatives used:	Yes <input checked="" type="checkbox"/> No*							
11. Date Rec. at Lab:	<u>10/31/95</u>							
12. Temp. Rec. at Lab:	<u>14C</u>							
13. Time Rec. at Lab:	<u>1153</u>							

JH
 10/31/95

* if Circled, contact Project manager and attach record of resolution

Chain of Custody

Pacific Environmental Group, Inc.
2025 Gateway Place #440, San Jose CA 95110.
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 286-001.1A

Facility No. Facility Address: 1726 Park St Alameda CA Billing Reference Number: 30295

CLIENT engineer: Estimate John Henry PACIFIC Point of Contact: Lance Geselebricht Sampler: P. Weirhardt Laboratory Name: Sequoia

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix		Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Comments:
				W-water	A-air										
MW8	3	40ml	HCL	W	G	10/30/95	10:33	X							9510L77
MW5	3	40ml	HCL	↓	↓	↓	10:58	↓							
TB-1	2	40ml	HCL	↓	↓	↓	N/A	↓							
MW5	2	LIT	NP	↓	↓	↓	10:58	X							
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 4em;">/</div>															

Condition of Sample:				Temperature Received: <u>110</u>				Mail original Analytical Report to: Pacific Environmental Group				Turnaround Time:			
Relinquished by <u>P. Weirhardt</u>		Date <u>10/30/95</u>		Time <u>13:20</u>		Received by <u>M. Doder</u>		Date <u>10/30/95</u>		Time <u>13:20</u>		2025 Gateway Place #440 San Jose, CA 95110		Priority Rush (1 day) <input type="checkbox"/>	
Relinquished by <u>M. Doder</u>		Date <u>10/31/95</u>		Time <u>10:05</u>		Received by <u>A. C.</u>		Date <u>10/30</u>		Time <u>10:05</u>		620 Contra Costa Blvd. #209 Pleasant Hill, CA 94523		Rush (2 days) <input type="checkbox"/>	
Relinquished by <u>A. C.</u>		Date <u>10/31</u>		Time		Received by		Date		Time		25725 Jeronimo Rd. #576C Mission Viejo, CA 92622		Expedited (5 days) <input type="checkbox"/>	
Relinquished by		Date		Time		Received by laboratory		Date		Time		4020 148th Ave NE #B Redmond, WA 98052		Standard (10 days) <input checked="" type="checkbox"/>	
								<u>10/30/95</u>		<u>11:58</u>				As Contracted <input type="checkbox"/>	



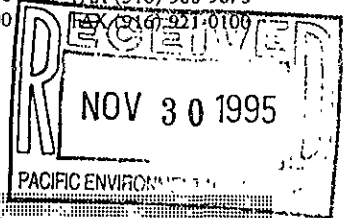
**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100



Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Client Proj. ID: 286-001.4C/Alameda
Sample Descript: MW-9
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9511C52-01

Sampled: 11/15/95
Received: 11/16/95
Analyzed: 11/20/95
Reported: 11/22/95

Attention: Maree Doden
GC Batch Number: GC112095BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	125	1200
Benzene	1.2	3.6
Toluene	1.2	N.D.
Ethyl Benzene	1.2	27
Xylenes (Total)	1.2	37
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	79

Analyses reported as N.D. were not present above the stated limit of detection.

EQUOIA ANALYTICAL - ELAP #1210

B Fletcher

Marcie Fletcher
Project Manager



Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Client Project ID: 286-001.4C/Alameda
Matrix: LIQUID

Work Order #: 9511C52 01

Reported: Nov 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC112095BTEX20A	GC112095BTEX20A	GC112095BTEX20A	GC112095BTEX20A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	951143326	951143326	951143326	951143326
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/20/95	11/20/95	11/20/95	11/20/95
Analyzed Date:	11/20/95	11/20/95	11/20/95	11/20/95
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	10	10	31
MS % Recovery:	110	100	100	103
Dup. Result:	10	10	10	30
MSD % Recov.:	100	100	100	100
RPD:	9.5	0.0	0.0	3.3
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK112095	BLK112095	BLK112095	BLK112095
Prepared Date:	11/20/95	11/20/95	11/20/95	11/20/95
Analyzed Date:	11/20/95	11/20/95	11/20/95	11/20/95
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	11	10	10	30
LCS % Recov.:	110	100	100	100

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

B Fletcher

Brucie Fletcher
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9511C52.PPP <1>

Chain of Custody

Pacific Environmental Group, Inc.

2025 Gateway Place #440, San Jose CA 95110

Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 286-001.VC

Facility No. 2

Facility Address: 1726 PARK ST. ALAMEDA CA.

Billing Reference Number: 30627

CLIENT engineer: Estate bhd Hedra

PACIFIC Point of Contact: LAUCE GEYER/SAMPLER: PEDRO RUIZ

Laboratory Name: GEOSIA

Comments:

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	BTEX/VPHgas (8015/8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/8240)	SVOC (EPA 627/8270)	HVOC (EPA 601/8010)	Comments:	
															W-water	G-grab
NW-9	3	40ml	HCC	W	G	11-15-95	9:30	X								d

951152

Condition of Sample:

Temperature Received:

Mail original Analytical Report to: Pacific Environmental Group

Turnaround Time:

Relinquished by	Date	Time	Received by	Date	Time
	11-15-95	17:30	M Daden	11/16/95	0715
M Daden	11/16/95	10:10		11/16	10:10
	11/16	11:15			
			Received by laboratory		

2025 Gateway Place #440
San Jose, CA 95110

620 Contra Costa Blvd. #209
Pleasant Hill, CA 94523

25725 Jeronimo Rd. #576C
Mission Viejo, CA 92622

4020 148th Ave NE #B

- Priority Rush (1 day)
- Rush (2 days)
- Expedited (5 days)
- Standard (10 days)

FIELD DATA SHEET

ER SAMPLE FIELD DATA SHEET

PROJECT No.: 286001 LOCATION: Park St. ALAMEDA WELL ID #: MW-9

CLIENT/STATION No.: _____ FIELD TECHNICIAN: PEDRO POIZ

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC _____
 Depth to water: _____ TOB _____ TOC _____
 Total depth: _____ TOB _____ TOC _____
 Date: _____ Time (2400): _____

Probe Type and I.D. #
 Oil/Water interface _____
 Electronic indicator _____
 Other; _____

CASING DIAMETER **GAL/ LINEAR FT.**

<input checked="" type="checkbox"/>	2	_____	0.17
<input type="checkbox"/>	3	_____	0.38
<input type="checkbox"/>	4	_____	0.66
<input type="checkbox"/>	4.5	_____	0.83
<input type="checkbox"/>	5	_____	1.02
<input type="checkbox"/>	6	_____	1.5
<input type="checkbox"/>	8	_____	2.6

SAMPLE TYPE

Groundwater
 Duplicate
 Extraction well
 Trip blank
 Field blank
 Equipment blank
 Other; _____

TD 19.15 - DTW 8.05 = 11.1 Gal/Linear Foot 17 = 1.88 x Number of Casings 3 = Calculated Purge 5.66

DATE PURGED: 11-15-95 START: 9:20 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 11-15-95 START: 9:30 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
	<u>1.75</u>						

Pumped dry Yes / No _____

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #

Bailer: _____ Airlift Pump: _____
 Centrifugal Pump: 13 Dedicated: _____
 Other: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: 15-1
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-9</u>	<u>11-15-95</u>	<u>9:30</u>	<u>3</u>	<u>40ml</u>	<u>UOA</u>	<u>HCL</u>	<u>GAH/BTEX</u>

REMARKS: _____

