PCC Property Contamination Control, Inc.

2220 LIVINGSTON STREET, SUITE 208 • OAKLAND, CALIFORNIA 94606 • (415) 532-2442

Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room #200
Oakland, CA. 94621

October 26,1990

Attention; Mr. Dennis Byrne

RE: Project U552817 1461 Park Ave. Emeryville. CA .

Dear Mr. Byrne, attached you will find the groundwater monitoring well construction , initial sampling and evaluation repots on this subject property.

You will also find analytical results and estimates of the area and amount of contaminated soils on this site. I have fowarded this information as well as a proposal to remediate this site utilizing on site aeration of contaminated soils.

Sincerely,

Ron Richmond
Property Contamination Control, Inc.

90 NOV -2 AM 11:39

PCC Property Contamination Control, Inc.

2220 LIVINGSTON STREET, SUITE 208 • OAKLAND, CALIFORNIA 94606 • (415) 532-2442

GROUND WATER MONITORING WELL CONSTRUCTION SAMPLING AND EVALUATION

PROJECT: 1461 PARK AVE.
EMERYVILLE, CA.

Submitted by

Property Contamination Control, Inc.
Oakland, CA.
October 24, 1990

1.0 INTRODUCTION

In March of 1990 two underground fuel tanks were removed from the property located at 1461 Park Ave. Emeryville, CA.
During the removal process it was noted that one of the two tanks removed had failed . The material that had leaked into the soil ajacent to the tank was identified as gasoline. The contamination levels in the soil were sufficient to require the installation of groundwater monitoring wells. The work was performed to assess the impact of the gasoline contamination on the groundwater . Secondarily the work was designed to quantify the area of soil contamination in order to facilitate soil remediation.

The site is located about 1/3 of a mile north of Interstate 580 and about 1/2 mile east of the San Francisco Bay. This location is in the city of Emeryville , CA. on the southwest corner of Park Ave. and Horton street. Currently the site houses Western Brake Co. , which is a distribution center for motor vehicle brake parts. The site has one concrete block single story building that almost covers the entire property. The remaining areas are covered with either asphalt or concrete.

2.0 DRILLING PROCEDURES

In August of 1990 , a mobile B-61 drilling rig with 8" hollow stem augers drilled to 20.0 ft. depth below grade in three locations on the subject property. Two bores on the east side of the building and one bore on the west side of the building. The rig was steam cleaned prior to arrival on site. Undisturbed soil samples were collected at five foot intervals from 5-10 feet. with a hammer driven California split spoon sampler, which had also been precleaned. The borings were logged and sample and well construction procedures were documented.

From approximately grade to 5 feet gasoline odors were present in MW#1 bore . No odors were noted from any of the other bores or samples. First groundwater was encountered at about 6.5 feet. from about 9 -20 ' depth the soil was primarily clay and the borings were terminated.

3.0 WELL CONSTRUCTION PROCEDURES

Upon completion of drilling, three 2" schedule 40 PVC wells were installed ,in three locations at the site, to a depth of 20 feet total depth each. Fifteen feet of .010" slotted casing with threaded bottom caps were followed by 5 feet of blank casings in each well bringing the wells up to grade. The wells were sanded with #3 sand through the augers, from 20 feet up to 7 feet in depth. About 1 1/2 feet of bentonite pellets followed with water for activation of the pellets. The remainder of the borings were filled to grade with cement/bentonite grout, and 8" street covers were installed along with locking inner caps.

4.0 SAMPLING PROCEDURES

The soil samples were collected in 2"x6" precleaned brass tubes and sealed with foil, plastic caps and tape. The sampler was cleaned with TSP solution and rinsed with tap water between samplings. The samples were put into a cooler on ice and transported and put under refridgeration then transported on ice to a State Certified Analytical Laboratory for analysis following chain of custody procedures.

The completed well was developed and sampled by Alpha Chemical and Biomedical Laboratories . Their report of methods and analytical results are attached to this report.

5.0 SAMPLE ANALYSIS

All soil samples obtained on August 11 and 12 , 1990 were analyzed for total petroleum hydrocarbons as gasoline , by EPA method 5030/CA. Dept of Health Services method, LUFT manual and BTXE by EPA method 602/8020.

The groundwater samples obtained on August 26, 1990 were analyzed for total petroleum hydrocarbons as gasoline, by EPA method 5030/CA. Dept. of Health Services method, LUFT manual and BTXE by EPA method 5030/8020. All analytical results are attached to this report.

6.0 MANUAL SOIL GAS PROBES

In combination with the bores that were later converted into the 3 groundwater monitoring wells, four 3/4" x 10' manual borings were performed. The bores were made using a Fisher stainless steel hand boring instrument. The purpose of these bores was to visually and with the human nose, test the soil for discoloration and evidence of gasoline odors. The bores were probed into the soil from grade to a maximum depth of 10 feet. The probe was checked at about one foot intervals and cleaned before resuming each probed foot of depth. Soil probe locations are shown in the attached area and cross section drawings. Only one of the four probes [sb#2] showed evidence of gasoline odors in the soil. The aromatic soil was seen from approximately 1 foot to a 5.5 foot depth. This information corrolates to the information obtained in the monitoring well bores and resultant soil samples.

7.0 CONCLUSIONS

All evidence obtained in the process of tank removal soil and water samples, monitoring well soil and water samples and soil odor probes indicates limited soil and groundwater gasoline contamination. The evidence appears to indicate that a wicking action of the gasoline wicked from the location of the leaking tank into the shallow soils ajacent to the tank and above the shallow groundwater. The area around the tank having been capped by asphalt appears to have limited the hydrogeological head pressure and limited the extent and migration of the contamination into the shallow groundwater.

8.0 RECOMMENDATIONS

Soil remediation is recommended in the shallow soil area in the southeast corner of the original excavated tank pit including the tank pit soil. The soil depth to groundwater is relatively shallow in this area , depth of soils above the saturation zone are about 6.0 feet to 7.0 feet. If allowed , we recommend excavation of these soils and aeration of same on site. Aeration can be accomplished to bring the approximately 1580 ppm levels down below acceptable levels . Once levels are brought under limits the soils can be returned to the excavated pit areas and the site can be restored to prior surface conditions. The groundwater monitoring wells should then be sampled quarterly ,from a date starting after soil remediation has been completed, for a period of at least one year to monitor the condition of the groundwater. The groundwater samples should be analyzed using the same methods/ protocol as the earlier analyses. If future analyses show that groundwater has not only not been further impacted but has significantly been reduced in hydrocarbon levels , then perhaps periodic monitoring can be discontinued.

PROJECT; 1461 Park Ave. Emeryville, CA. MW # 1

SOILS DESCRIPTION	Graphic symbol	Well Completion	HB	REMARKS
Clay dark brown silty gravelly 20-30% gravels			ptld cement	locking well cover 2" schedule 40 pvc blank
Clay dark brown sandy gravelly moist to wet			benonite pellets	soil sample 5' gasoline oder saturation zone prox 6.5 'to 7.5'
Clay gray silty gravel mixed wet			#3 sand	soil sample 10' no odor
Clays gray to brown mixed wet to moist				2" schedule 40 pvc 0.01" slotted
Clays gray to brown mixed moist				

PROPERTY CONTAMINATION CONTROL, INC. logged by: RB date logged: 9/14/90

PROJECT; 1461 Park Ave. Emeryville, CA. MW # 2

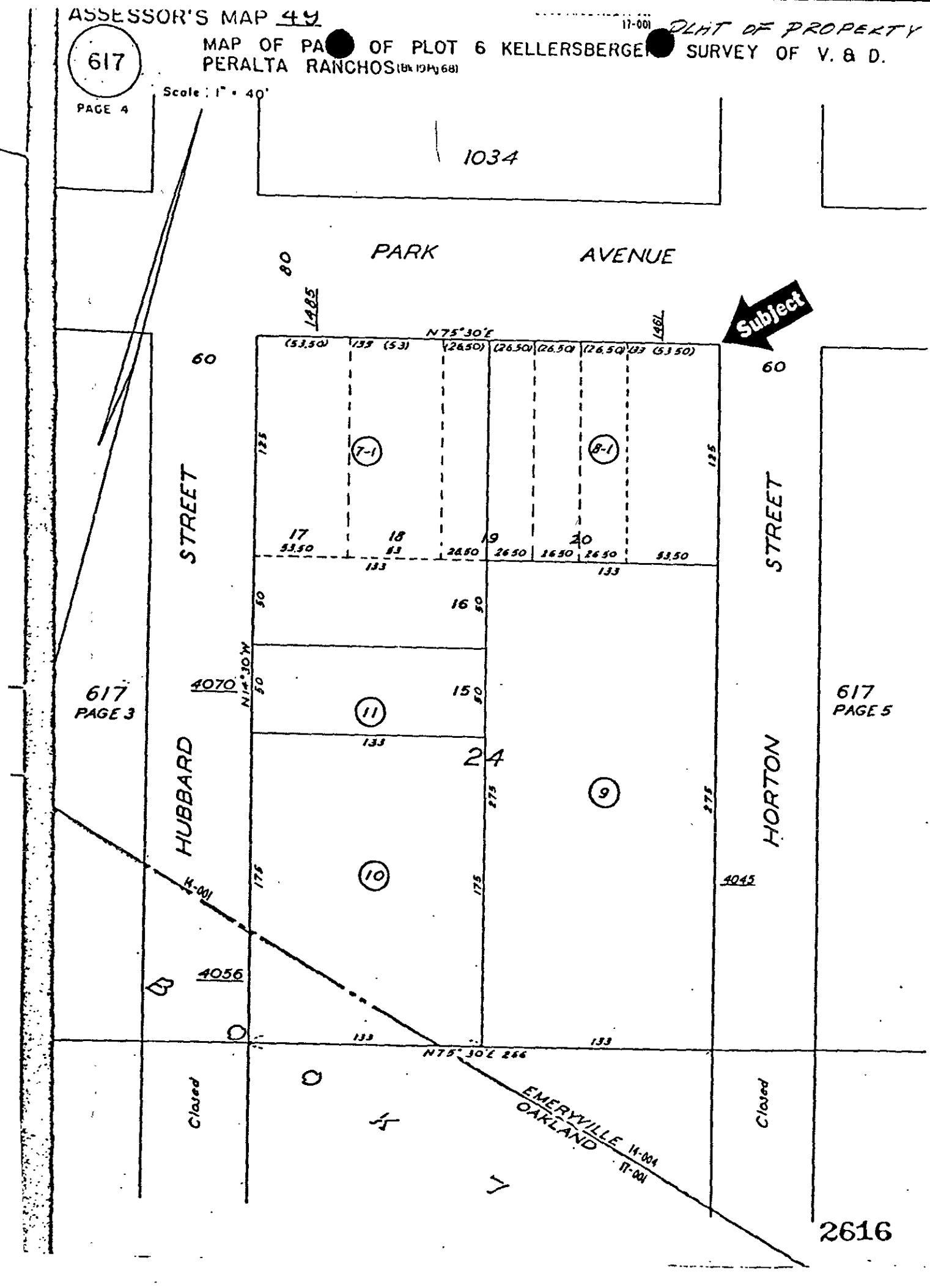
SOILS DESCRIPTION	Graphic symbol	Well Completion	HB	REMARKS
Clay dark brown silty gravelly 20-30% gravels			ptld cement	locking well cover 2" schedule 40 pvc blank
Clay dark brown sandy gravelly moist to wet			benonite pellets	soil sample 5' no odor saturation zone prox 6.5 'to 7.5'
Clay gray silty gravel mixed wet			#3 sand	soil sample 10' no odor
Clays gray to brown mixed wet to moist				2" schedule 40 pvc 0.01" slotted
Clays gray to brown mixed moist				

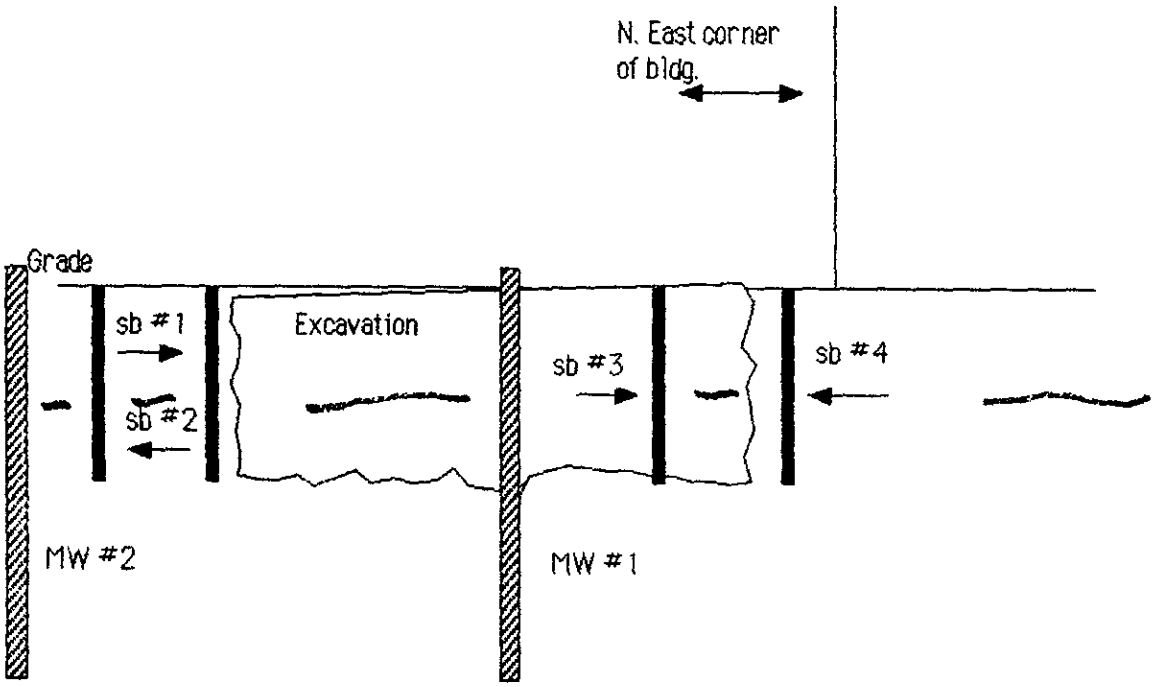
PROPERTY CONTAMINATION CONTROL, INC. logged by: date logged: 9/11/90

PROJECT; 1461 Park Ave. Emeryville, CA. MW * 3

SOILS DESCRIPTION	Graphic symbol	Well Completion	HB	REMARKS
Clay dark brown silty gravelly 20-30% gravels				locking well cover
			ptld cement	2" schedule 40 pvc blank
Clay dark brown sandy gravelly moist to wet			benonite pellets	soil sample 5' no odor
				saturation zone prox 6.5 'to 7.5'
Clay gray silty gravel mixed wet				soil sample 10' no odor
			#3 sand	
Clays gray to brown mixed wet to moist				2" schedule 40 pvc 0.01" slotted
Clays gray to brown mixed moist				

PROPERTY CONTAMINATION CONTROL, INC. logged by: RLA date logged: 9/12/90

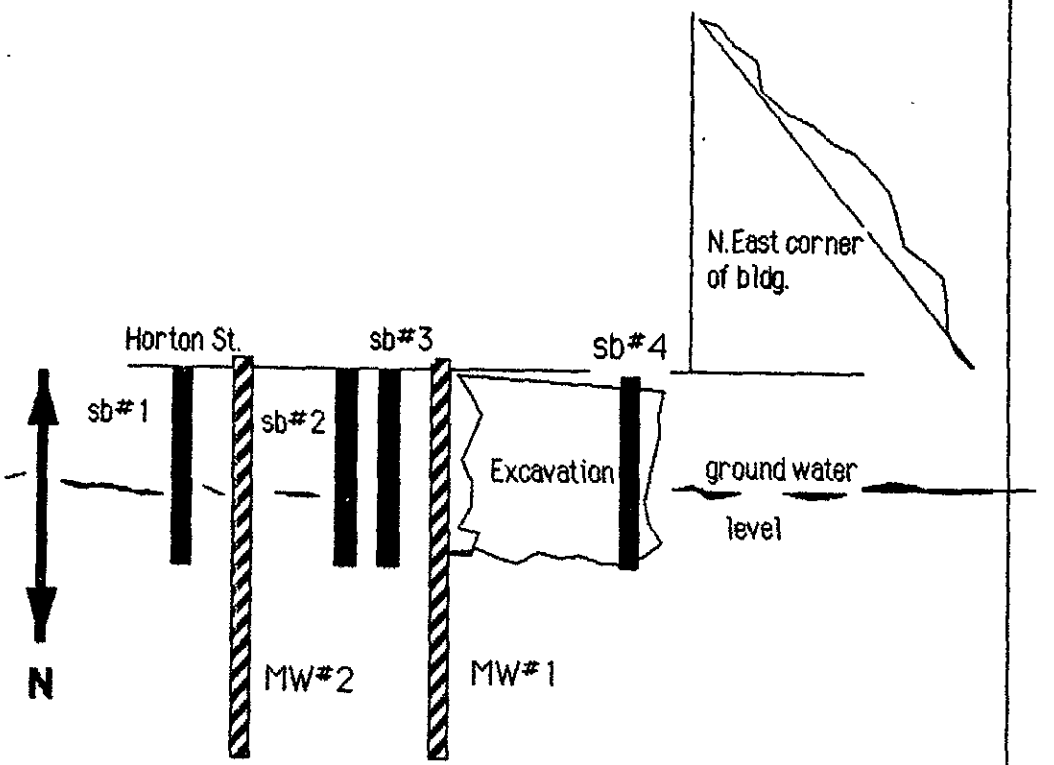

ASSESSOR'S MAP 49
617
PAGE 4
MAP OF PA OF PLOT 6 KELLERSBERGE SURVEY OF V. & D.
PERALTA RANCHOS (Bk 19 Pg 68)
17-001 PLAT OF PROPERTY
Scale : 1" = 40'
1034
PARK AVENUE
80
1485
N75°30'E
461
Subject
(53.50) 133 (53) (26.50) (26.50) (26.50) (26.50) 133 (53.50)
60
60
125
125
7-1
8-1
STREET
STREET
17 53.50
18 53 133
19 26.50 26.50
20 26.50 26.50 53.50 133
16 50
50
15 50
50
N14°30'W
4070
617
PAGE 3
11
133
24
9
275
275
HUBBARD
HORTON
617
PAGE 5
10
175
175
4045
14-001
4056
133
133
N75°30'E 266
Closed
Closed
EMERYVILLE 14-004
OAKLAND 11-001
2616



1461 PARK AVE.
EMERYVILLE, CA

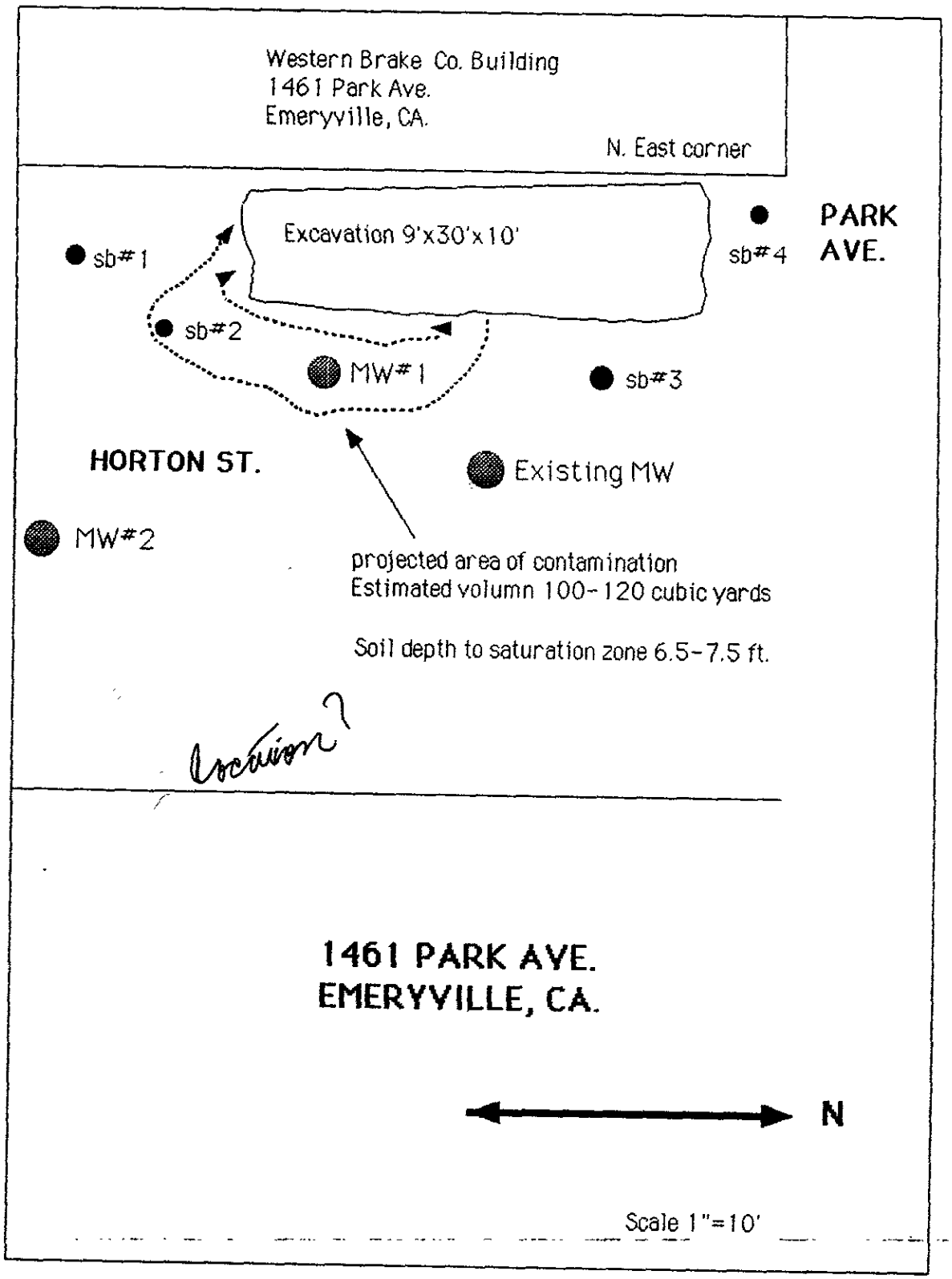
Scale 1" = 10'

N



1461 PARK AVE.
EMERYVILLE, CA

Scale 1"=10'


Western Brake Co. Building
1461 Park Ave.
Emeryville, CA.
N. East corner
Excavation 9'x30'x10'
sb#1
sb#2
sb#3
sb#4
MW#1
MW#2
PARK AVE.
HORTON ST.
Existing MW
projected area of contamination
Estimated volumn 100-120 cubic yards
Soil depth to saturation zone 6.5-7.5 ft.
Location?
1461 PARK AVE.
EMERYVILLE, CA.
N
Scale 1"=10'

CHROMALAB, INC.

Analytical Laboratory
Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste (#E694)
- Drinking Water (#955)
- Waste Water
- Consultation

September 19, 1990 ChromaLab File No.: 0990048

AQUA SCIENCE ENGINEERS, INC.

Attn: Ron Richmond

RE: Six soil samples for Gasoline/BTEX analysis

Project Location: 1461 PARK AVE., EMERYVILLE
Date Sampled: Sept. 11-12,1990 Date Submitted: Sept. 12, 1990
Date Extracted: Sept. 14-18,1990 Date Analyzed: Sept.14-18,1990

RESULTS:

Sample No.	Gasolline (mg/Kg)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethyl Benzene (µg/Kg)	Total Xylenes (µg/Kg)
MW #I, SAMPLE 1	150	5000	2200	3100	4900
MW #I, SAMPLE 2	N.D.	93	N.D.	N.D.	N.D.
MW #II, SAMPLE 1	N.D.	14	N.D.	N.D.	N.D.
MW #II, SAMPLE 2	N.D.	35	N.D.	N.D.	N.D.
MW #III, SAMPLE 1	N.D.	5.1	N.D.	N.D.	N.D.
MW #III, SAMPLE 2	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	98.7%	86.1%	92.5%	94.4%	93.5%
DUP SPIKE REC.	91.1%	89.3%	89.7%	90.0%	107.6%
DETECTION LIMIT	2.5	5	5	5	5
METHOD OF ANALYSIS	5030/ 8015	8020	8020	8020	8020

ChromaLab, Inc.

David Duong
Senior Chemist

Eric Tam (by DD)
Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
415/831-1788 • Facsimile 415/831-8798
Federal ID #68-0140157

aqua science engineers inc.

Aqua Science Engineers Inc.,
P.O. Box 535, San Ramon, CA 94583 • 415-820-9391

Chain of Custody

DATE 09/12/90 PAGE 01 OF 01

PROJ. 1461 Park Ave Emeryville CA
COMPANY PCC
ADDRESS 2220 Livingston St #208
Oakland, CA 94606

SAMPLERS (SIGNATURE) Ron Redmond (PHONE NO.) 532-2442

ANALYSIS REQUEST

SAMPLE ID.	DATE	TIME	MATRIX	LAB ID.	TPH - Gasoline (EPA 5030)	TPH - Gasoline (5030) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510, 3550)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270)	TOTAL OIL & GREASE (EPA 5030E)	PESTICIDES/PCB (EPA 608, 8080)	PHENOLS (EPA 604, 8040)			METALS: Cd, Cr, Pb, Zn	CAM METALS (18) w/Cr VI	PRIORITY POLLUTANT METALS (13)						NUMBER OF CONTAINERS
MW #I Sample 1	9-11-90	10 AM				✓																			1
MW #I Sample 2	9/11	10 AM				✓																			1
MW #II Sample 1	9/11	12 PM				✓																			1
MW #II Sample 2	9/11	12 PM				✓																			1
MW #III Sample 1	9/12	830 AM				✓																			1
MW #III Sample 2	9/12	834 AM				✓																			1

CHROMALAB FILE # 990048

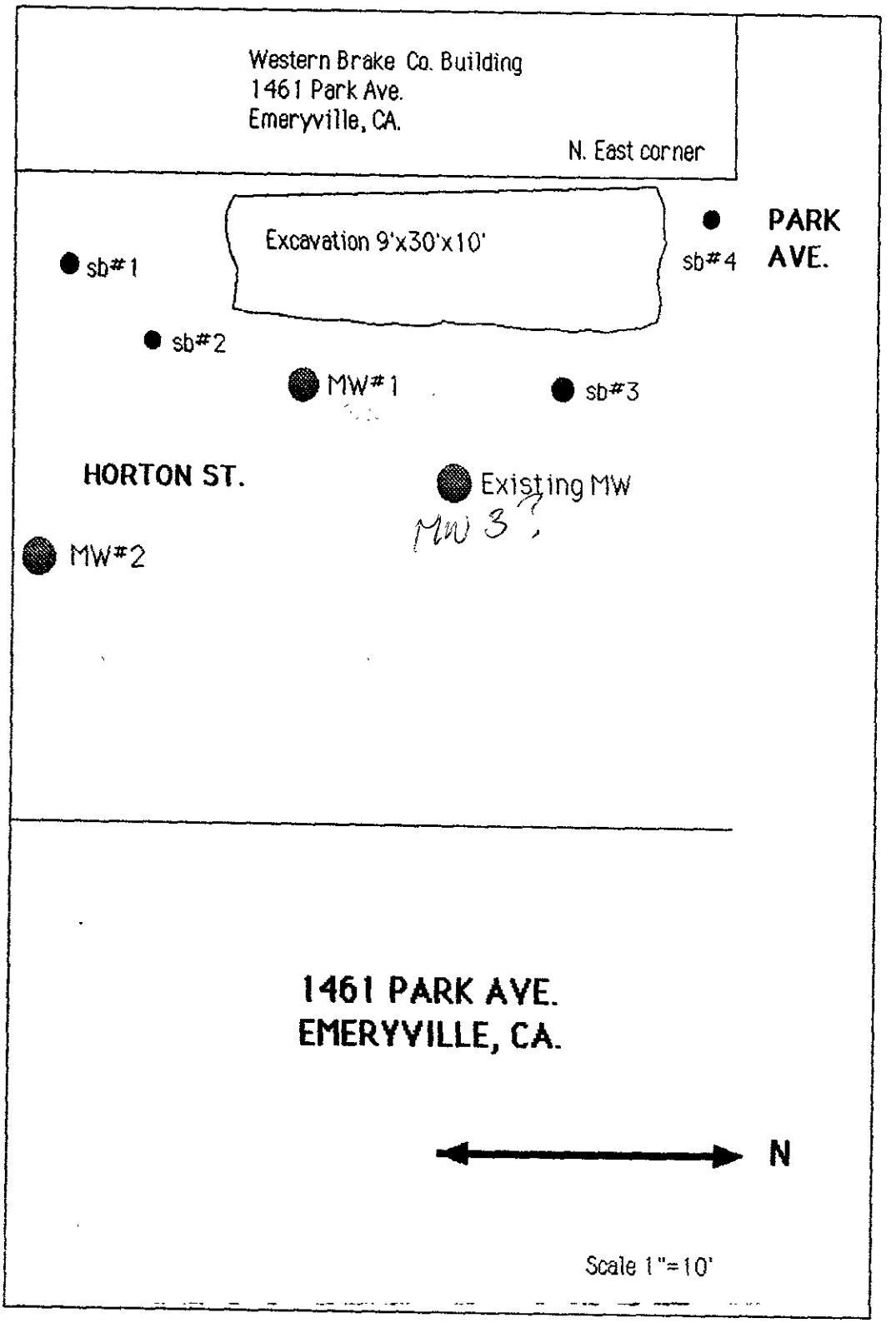
PROJECT INFORMATION	
PROJECT.	
PO NO	
SHIPPING ID NO.	
VIA.	

SAMPLE RECEIPT	
TOTAL NO. OF CONTAINERS	06
CHAIN OF CUSTODY SEALS	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	
LAB NO.	

SPECIAL INSTRUCTIONS/COMMENTS:

Normal TAT

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY 3.
Ron Redmond 930 AM		
(Signature) (Time)	(Signature) (Time)	(Signature) (Time)
Ron Redmond 9/12/90		
(Printed Name) (Date)	(Printed Name) (Date)	(Printed Name) (Date)
(Company)	(Company)	(Company)
RECEIVED BY 1.	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY) 3.**
		David Duong 2:20 PM
(Signature) (Time)	(Signature) (Time)	(Signature) (Time)
		DAVID DUONG 09/12/90
(Printed Name) (Date)	(Printed Name) (Date)	(Printed Name) (DATE)
(Company)	(Company)	(LAB) Chromalab, Inc.


Western Brake Co. Building
1461 Park Ave.
Emeryville, CA.
N. East corner
Excavation 9'x30'x10'
sb#1
sb#2
MW#1
sb#3
sb#4
PARK AVE.
HORTON ST.
Existing MW
MW 3?
MW#2
1461 PARK AVE.
EMERYVILLE, CA.
N
Scale 1"=10'

Analysis:

Total Petroleum Hydrocarbons as gasoline, by EPA Method 5030/Ca.
Dept. of Health Services method, LUFT Manual.
Analysis date: 10/9/90.
BTXE by EPA Method 5030/8020.
Analysis date: 10/9/90.

Results:

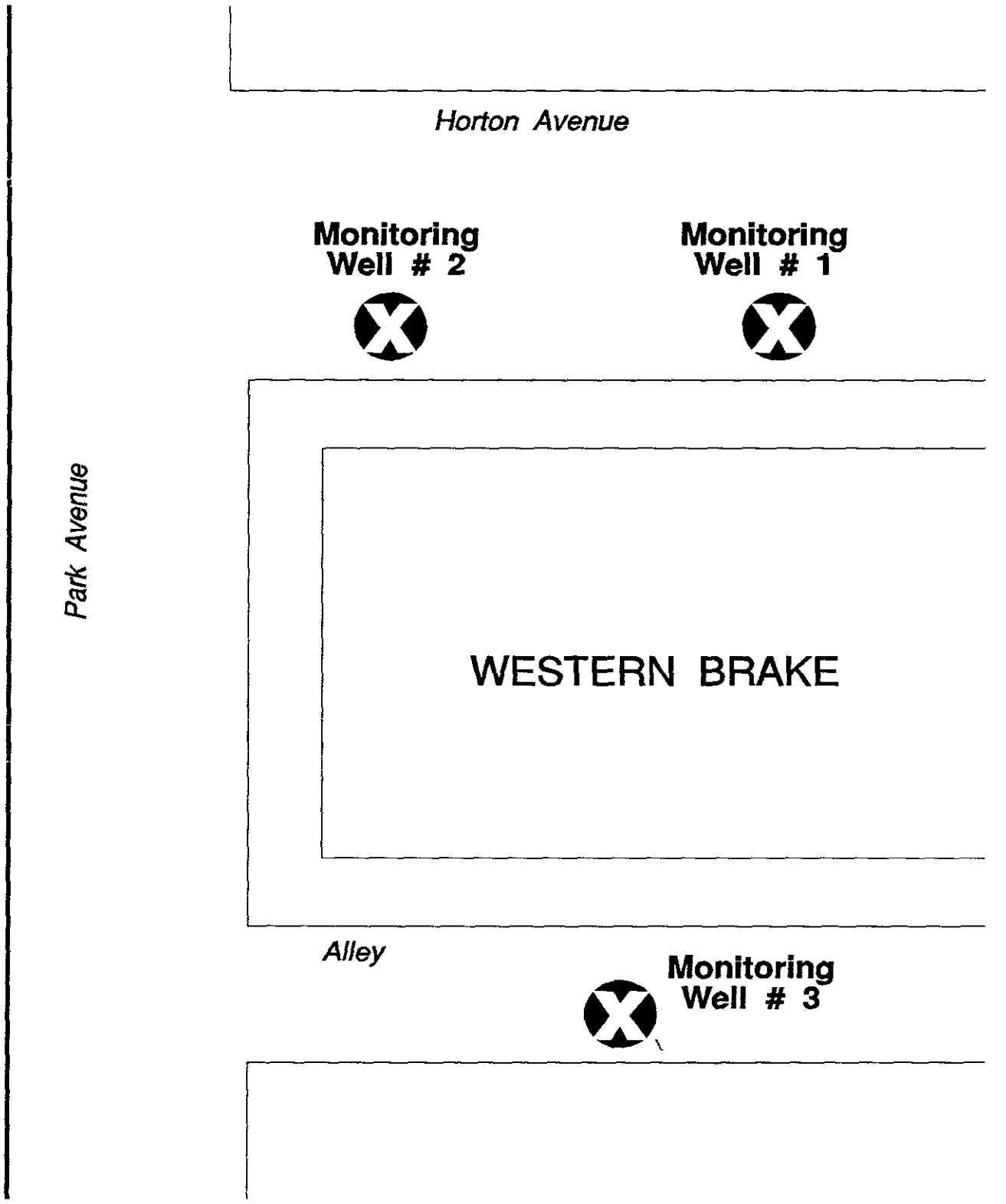
	MW1 # 0163 µg/L	MW2 # 0164 µg/L	Detection Limit µg/L
Benzene	1.9	209	0.3
Toluene	1.1	33.7	0.3
Xylenes	3.3	128	0.6
Ethylbenzene	ND	5.4	0.3
Total Petroleum Hydrocarbons, as gasoline	ND	1200	50

	MW3 # 0165 µg/L	Detection Limit µg/L
Benzene	5.1	0.3
Toluene	ND	0.3
Xylenes	ND	0.6
Ethylbenzene	ND	0.3
Total Petroleum Hydrocarbons, as gasoline	ND	50

ND = None Detected

WESTERN BRAKE
1461 Park Avenue
Emeryville, CA

Alpha Chemical
& Biomedical Labs
245 Kentucky Street
Petaluma, CA 94952
(707) 778-8607
10/12/90



ALPHA CHEMICAL & BIOMEDICAL LABORATORIES

Joe E. Hodgkins, Ph.D.
Director

October 12, 1990

PROPERTY CONTAMINATION CONTROL
Attn: Ron Richmond
2220 Livingston Street, Suite 208
Oakland, CA 94606

REPORT
MONITORING WELL ANALYSIS
RE: WESTERN BRAKE BUILDING, EMERYVILLE

Sample Identification:

Location	:	Western Brake, 1461 Park Ave., Emeryville. See Map.
ACBL Sample # 0162	:	Field blank.
# 0163	:	Monitoring well # 1.
# 0164	:	Monitoring well # 2.
# 0165	:	Monitoring well # 3.
Date sampled	:	9/26/90, 10:30 am to 2:00 pm by Scott Forbes, ACBL chemist. See Chain of Custody.
Received in Lab	:	9/26/90, 4:12 pm.

Sample Collection:

Cleaning

Groundwater purging and sampling were performed with pre-cleaned PVC and teflon bailers. The bailers were triple rinsed (utilizing tap water, trisodium phosphate mixed with water, and a final rinse of distilled water) prior to purging or obtaining a water sample from each well.

Water

Before purging the first well (# 1), a field blank was prepared by filling a pre-cleaned teflon bailer with purified water and

then pouring the water into a 40 ml VOA vial. Once the field blank was prepared, groundwater samples were obtained with the same teflon bailer.

Prior to groundwater purging and sampling, the initial depth to water was measured and approximately three to five well volumes of water was evacuated from the well (well purging). While purging, the groundwater was monitored for pH, conductivity and temperature was monitored. Once well purging was complete, two 40 ml VOA vials of groundwater were obtained from each well. Immediately after filling the vials they were carefully capped so that no headspace was created. Once capped, the samples were labeled, sealed in plastic bags, immediately placed on ice and transported to Alpha Chemical & Biomedical Laboratories, Inc. under chain-of-custody protocol for laboratory analysis.

Field Analysis Procedure:

Odor

No odor was noted while sampling any of the wells.

Color

All samples exhibit a distinct yellow-green color.

Conductivity, pH, Temperature

The conductivity, pH and temperature were measured during the purging of the wells (prior to sampling). The pH meter was calibrated and the slope was set (utilizing pH 4 and 7 standards) prior to monitoring and purging the first well.

Initial Depth of Groundwater

The elevation of the groundwater was determined by physical measurement from the top of the well casing to the bottom of the bailer as it first touched the water.

Turbidity

After allowing the samples to settle, the water derived from the monitoring wells was of high clarity and contained less than 2% suspended solids. The solids were brown to light brown grey in color.

QA/QC Data:	Percent Recovery Spike	Relative Percent Difference Duplicate
Benzene	97 %	5.3 %
Toluene	101 %	---
Xylenes	101 %	---
Ethylbenzene	91 %	---
Total Petroleum Hydrocarbons, as gasoline	118 %	---

Joe E. Hodgkins, Ph.D., C.T.
Laboratory Director

Enclosures (Chain of Custody,
Well Data Sheets, & Map)
pcc.rpt

WELL DEVELOPMENT/PURGING/SAMPLING DATA

Project & Well # PCC "Western Brake" Well #1 (Horton Ave. South of #2)

Date 2/26/90 Weather Fair Field Sampler S. Forbes

Total Depth of Well (DT) 19'-9" Radius of Casing 1"

Initial Depth of Groundwater (DGW) 4'-5"

Depth of Column of Water (DT - DGW) 15'-4"

Well Volume 2.51 Gal = $(\pi \cdot R^2)$ x (Column of Water) x (7.5 Gal/Ft^3)
where R and column of water are in feet

Type of Extraction Equipment

Bailer ✓ Purge - PVC Sampling - Teflon

Bladder Pump

Surface Pump

Other

Amount of Water Removed 10 Gal

Depth of Water After Removal and/or Sampling

Water Removed	pH	Conductivity (µmhos/cm)	Temperature (°C)
2 Gal	6.66	2380	75
4 Gal	6.58	2450	70
6 Gal	6.60	2320	70
8 Gal	6.66	2380	70
10 Gal	6.65	2380	70

Type of Samples Taken Water

Indication of Contamination

Frothing None

Iridescence None

Oil None

Smell Normal

Other Color: Yellow-Green < 2% Solids

Cleaning Procedures

Source of Water 1 Gal Jug Tap Water Clean & Rinse

Type of Rinse " 1% TSP " "

Materials (Rope, Tape, Etc.) " D.I. Water " "

ALPHA CHEMICAL & BIOMEDICAL LABORATORIES, INCORPORATED	JOB NO. / BY / LICENSE	WELL SAMPLING DATA: Western Brake, 1461 Park Ave., Emeryville CA.	PLATE

WELL DEVELOPMENT/PURGING/SAMPLING DATA

Project & Well # PCC "Western Brake" Well #2 (Morton Ave North of #1)

Date 9/26/90 Weather Fair Field Sampler S. Fo-kas

Total Depth of Well (DT) 20'-5" Radius of Casing 1"

Initial Depth of Groundwater (DGW) 4'-2"

Depth of Column of Water (DT - DGW) 16'-3"

Well Volume 2.66 Gal = $(\pi \cdot R^2)$ x (Column of Water) x (7.5 Gal/Ft^3)
where R and column of water are in feet

Type of Extraction Equipment

Bailer ✓ Purge - PVC Sampling - Teflon

Bladder Pump

Surface Pump

Other

Amount of Water Removed 12 Gal

Depth of Water After Removal and/or Sampling 4'-7"

Water Removed	pH	Conductivity (µmhos/cm)	Temperature (°C)
2 Gal	6.74	2220	74(°F)
4	6.74	2200	70(°F)
6	6.65	2170	69
8	6.68	2220	69
10	6.65	2170	69
12 Gal	6.66	2160	69

Type of Samples Taken Water

Indication of Contamination

Frothing None

Iridescence None

Oil None

Smell Normal

Other COLOR - Yellow-Green < 2% Solids

Cleaning Procedures

Source of Water 1 Gal Jug - Tap Water - Rinse & Clean

Type of Rinse " - 1% TSP - "

Materials (Rope, Tape, Etc.) " - D.I. Water - "

ALPHA CHEMICAL & BIOMEDICAL LABORATORIES, INCORPORATED	JOB NO. / BY / LICENSE	WELL SAMPLING DATA WESTERN BRAKE 1461 Park Ave. Emeryville CA.	PLATE

WELL DEVELOPMENT/PURGING/SAMPLING DATA

Project & Well # PCC "Western Brake" Well #3 (In Alley off Park Ave Behind WB Building)

Date 9/26/90 Weather Fair Field Sampler S. Forbes

Total Depth of Well (DT) 20'-4" Radius of Casing 1"

Initial Depth of Groundwater (DGW) 4'-8"

Depth of Column of Water (DT - DGW) 15'-6"

Well Volume 2.54 Gal = $(\pi \cdot R^2)$ x (Column of Water) x (7.5 Gal/Ft^3)
where R and column of water are in feet

Type of Extraction Equipment

Bailer ✓ Purge - PVC Sampling - Teflon

Bladder Pump

Surface Pump

Other

Amount of Water Removed 12 Gal

Depth of Water After Removal and/or Sampling

Water Removed	pH	Conductivity (µmhos/cm)	Temperature (°C)
2 Gal	6.55	2400	71 (°F)
4	6.64	2270	69.5
6	6.67	2360	69
8	6.68	2450	69
10	6.69	2400	69
12 Gal	6.70	2390	69

Type of Samples Taken Water

Indication of Contamination

Frothing None

Iridescence None

Oil ~~None~~ None

Smell Normal

Other Color: Yellow-Green <2% Solids

Cleaning Procedures

Source of Water 1 Gal Jug - Tap Water - Clean & Rinse

Type of Rinse " - 1% TSP - "

Materials (Rope, Tape, Etc.) - D.I. Water - "

ALPHA CHEMICAL & BIOMEDICAL LABORATORIES, INCORPORATED	JOB NO. / BY / LICENSE	WELL SAMPLING DATA Western Brake 1461 Park Ave. Emeryville CA.	PLATE

CHAIN OF CUSTODY RECORD

ALPHA CHEMICAL & BIOMEDICAL LABORATORIES

CLIENT

NAME: PCC ("Western Brake")

ADDRESS: 2220 Livingston Suite 208
Oakland CA 94606

PHONE: (415) 532-2442

PROJECT: Western Brake, 1461 Park Ave, Emeryville CA

SAMPLER (signature): Scott Forley

ACBL SAMPLE NO.	COLLECTED Date/Time	SAMPLE IDENTIFICATION	NO. of Containers	ANALYSIS: BTXE, EPA 8020	ANALYSIS: TPH as Gasoline	REMARKS/ SAMPLE CONDITION ON RECEIPT
0162	9/26/90 10:30	Field Blank	1	X	X	40 ml VOA Vials w/ Teflon
0163	(") 11:30	MW-1	2	X	X	septa
0164	(") 12:30	MW-2	2	X	X	
0165	(") 2:00	MW-3	2	X	X	Sampled w/ Bailer
						3 well volumns then
						constant pH, Conductivity
						& Temp.

Relinquished by (signature):	Date/Time	Received by (signature):	Relinquished by (signature):	Date/Time	Received by (signature):
Scott Forley	9/26/90 4:12				
Relinquished by (signature):	Date/Time	Received by (signature):	Received in Laboratory by (signature):	Date/Time	
			Vicky Russell	9/26/90 4:17pm	

REMARKS
Samples cold on ice