



91 MAY 30 PM 2:06

May 28, 1991  
BEI Job No. 89070

Mr. Dennis Byrne  
Alameda County Health Care Services Agency  
Division of Hazardous Materials  
Department of Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

Subject: Quarterly Groundwater Sampling  
Peterson Properties  
1301 - 65th Street  
Emeryville, California

Dear Mr. Byrne:

This letter report documents the second round of quarterly groundwater sampling for the third year at the subject site.

The existing monitoring well (MW-1), shown on the enclosed site plan, was sampled on May 14, 1991. The well was purged prior to sampling by removal of four well casing volumes of water. A representative sample was collected with a Teflon bailer and placed in three 40-milliliter volatile organics analysis (VOA) vials provided by the laboratory. The Well Purging and Sampling Data sheet for this well is enclosed. The sample containers were packed on ice and delivered via courier to NET Pacific, Inc., a California-certified laboratory. The sample was analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline using modified EPA Method 8015 and benzene, ethylbenzene, toluene, and xylenes using EPA Method 602. An equipment blank was collected after initial decontamination of the bailer, but was not analyzed by the laboratory.

As indicated in the enclosed analytical report, TPH as gasoline, benzene, ethylbenzene, and xylenes were detected in the sample at concentrations of 1.0 parts per million, 61 parts per billion (ppb), 9.5 ppb, and 1.9 ppb, respectively. Toluene was not detected above the method detection limit of 0.5 ppb.

Mr. Dennis Byrne  
Alameda County Health Care Services Agency

May 28, 1991  
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If you have any questions, please contact me at (415) 521-3773.

Cordially,

Blymyer Engineers, Inc.



Michael S. Lewis  
Manager, UST Services

Enclosures

cc: Mr. Lester Feldman, RWQCB  
Mr. Ed Peterson  
Mr. Robert Coussan  
Mr. Charles Gensler  
Mr. Lawrence C. Jones, Jr.  
Joe Armao, Esq.

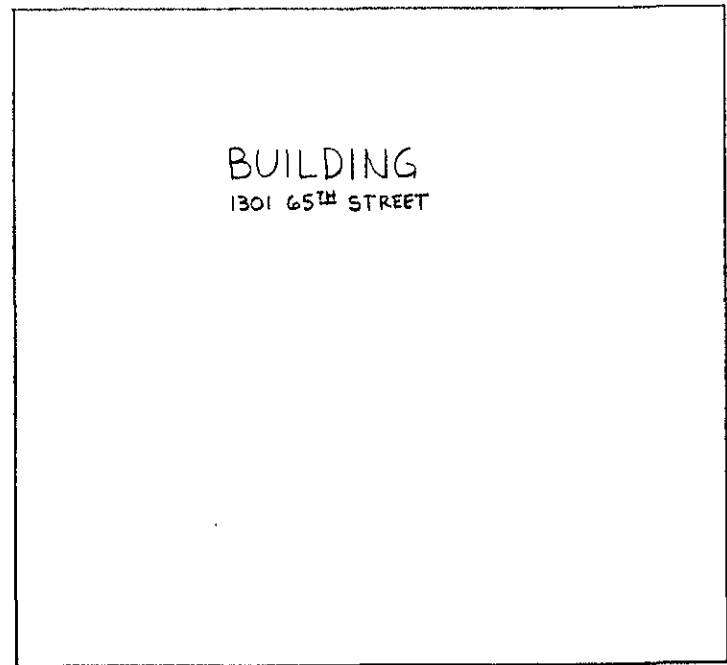
65<sup>TH</sup> STREET

UTILITY POLE  
(TYP. 2 LOCATIONS) TANK  
EXCAVATION

MW-1  
⊗

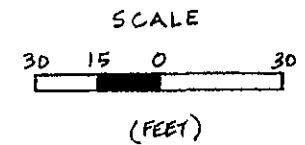
X

HOLLIS STREET



BUILDING  
1301 65<sup>TH</sup> STREET

N ↑



BLYMYER & SONS ENGINEERS, INC. 1209 CLEMENT STREET • ALAMEDA, CA 94601	
SCALE	FOR
DRAWN BY	HENRY HORN
DATE 6-19-88	& SONS
CHECKED	TITLE
APPROVED	PLOT PLAN
JOB NO. 88A7.1	DRAWING NO.
	REV.

**WELL PURGING AND SAMPLING DATA**

DATE 5/14/91 PROJECT NUMBER 89070 PROJECT NAME PETERSON-EMERYVILLE  
 WELL NUMBER MW-1 BORING DIAMETER \_\_\_\_\_ CASING DIAMETER 2"

<u>Column of Liquid in Well</u>		<u>Volume to be Removed</u>		
Depth to product	<u>-</u>	Gallon per foot of casing	=	<u>0.17</u>
Depth to water	<u>3.34'</u>	Column of water	x	<u>19.66'</u>
Total depth of well	<u>23'</u>	Volume of casing	=	<u>3.34g</u>
Column of water	<u>19.66'</u>	Number of volumes to remove	x	<u>3</u>
		Total volume to remove	=	<u>10.02g</u>

Method of measuring liquid OIL/WATER INTERFACE PROBE

Method of purging well BAILER rate -

Method of decon TSP/DISTILLED WATER

Physical appearance of water (clarity, color, particulates, odor)

Initial CLEAR; NO ODOR OR SHEEN  
 During SLIGHTLY SILTY; SLIGHT PETROLEUM ODOR.  
 Final SLIGHTLY SILTY; SLIGHT PETROLEUM ODOR.

<u>Field Analysis</u>	<u>Initial</u>	<u>During</u>	<u>Final</u>
Time	<u>11:15</u>	<u>11:31</u>	<u>11:38</u>
Conductivity (µs/cm)	<u>591</u>	<u>1172</u>	<u>1267</u>
pH	<u>7.40</u>	<u>6.71</u>	<u>6.82</u>
Temperature (°F)	<u>69.7</u>	<u>67.8</u>	<u>68.5</u>

Method of measurement HYDAC METER

Total of volume purged 14 GALLONS

Comments \_\_\_\_\_

Sample Number MW-1 Amount of Sample 3-VOAs

Preservative (circle one) None (HCl) HNO<sub>3</sub> H<sub>2</sub>SO<sub>4</sub>

Signed/Sampler \_\_\_\_\_ Date \_\_\_\_\_

Signed/Reviewer \_\_\_\_\_ Date \_\_\_\_\_



NATIONAL  
ENVIRONMENTAL  
TESTING, INC.

NET Pacific, Inc.  
435 Tesconi Circle  
Santa Rosa, CA 95401  
Tel: (707) 526-7200  
Fax: (707) 526-9623

Mike Lewis  
Blymyer Engineers, Inc  
1829 Clement Ave  
Alameda, CA 94501

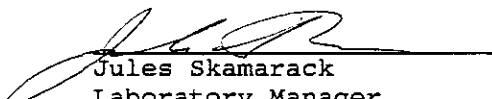
Date: 05-22-91  
NET Client Acct. No: 495  
NET Pacific Log No: 7515  
Received: 05-15-91 0800

Client Reference Information

Peterson, Emeryville; Project: 89070

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

  
Jules Skamarack  
Laboratory Manager

Enclosure(s)



NET Pacific, Inc.

Client Acct: 495  
Client Name: Blymyer Engineers, Inc  
NET Log No: 7515

Date: 05-22-91  
Page: 2

Ref: Peterson, Emeryville; Project: 89070

SAMPLE DESCRIPTION: MW-1            05-14-91    1150  
LAB Job No: (-85259 )

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS			--	
VOLATILE (WATER)			--	
DILUTION FACTOR *			1	
DATE ANALYZED			05-17-91	
METHOD GC FID/5030			--	
as Gasoline		0.05	1.0	mg/L
METHOD 602			--	
DILUTION FACTOR *			1	
DATE ANALYZED			05-17-91	
Benzene		0.5	61	ug/L
Ethylbenzene		0.5	9.5	ug/L
Toluene		0.5	ND	ug/L
Xylenes, total		0.5	1.9	ug/L



NET Pacific, Inc.

Client Acct: 495

Client Name: Blymyer Engineers, Inc

NET Log No: 7515

Date: 05-22-91

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Ref: Peterson, Emeryville; Project: 89070

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Gasoline	0.05	mg/L	96	ND	91	95	3.7
Benzene	0.5	ug/L	94	ND	94	85	10
Toluene	0.5	ug/L	109	ND	94	94	< 1

COMMENT: Blank Results were ND on other analytes tested.



NET Pacific, Inc.

## KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- \* : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference,  $100 \text{ [Value 1 - Value 2] / mean value}$ .
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

### Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.



# BEI Field Services

1829 Clement Avenue

Alameda, CA 94501

7575

## CHAIN OF CUSTODY RECORD

PROJ NO. 89070		PROJECT NAME Peterson - Emeryville			NO OF CONTAINERS	TPH as gasoline + BTXE	TPH as diesel	Oil & Grease (SM503E)	VOC (EPA 624/8240)	Semi-VOC (EPA 625/8270)	HOLD	REMARKS
SAMPLERS (Signature) Michael S. L.												
DATE	TIME	COMP.	GRAB	SAMPLE LOCATION								
5/14/91	11:10		X	BB-1	3 VOAs						X	
5/14/91	11:50		X	MW-1	3 VOAs	X						Standard TAT
CUSTODY & HOLD 5/14/91												
(1) 1900 MW-1 real injection												
Relinquished by: (Signature) Michael S. L.		Date/Time 5/14/91 15:10	Received by: (Signature) Mike Tavarai			Relinquished by: (Signature) Mike Tavarai		Date/Time 5/14/91	Received by: (Signature)			
Relinquished by: (Signature)		Date/Time	Received by: (Signature)			Relinquished by: (Signature)		Date/Time	Received by: (Signature)			
Relinquished by: (Signature) (UM NCS)		Date/Time	Received for Laboratory by: (Signature) Kump			Date/Time 5/15/91	0300	Remarks Bill to Blymyer Engineers, Inc				