

BLMYER
ENGINEERS, INC.



March 12, 1991
BEI Job No. 89070
91 MAR 14 1991

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 first 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 February 11, 1991. The well was purged prior to sampling by removal of three 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, toluene, xylenes and ethylbenzene 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, toluene, xylenes, and ethylbenzene were detected in the sample at concentrations of 1.3 parts per million, 45 parts per billion (ppb), 1.9 ppb, 0.7 ppb, and 4.8 ppb, respectively.

Mr. Dennis Byrne
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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.
Rick Griffith, Esq.

65TH STREET

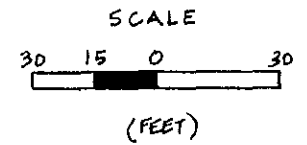
UTILITY POLE
(TYP. 2 LOCATIONS) TANK
EXCAVATION

MW-1
⊗

HOLLIS STREET

BUILDING
1301 65TH STREET

N ↑



| | |
|---|-------------|
| BLYMYER & SONS ENGINEERS, INC. 1870 CLEMENT STREET • ALAMEDA, CA 94501 | |
| SCALE | FOR |
| DRAWN BY | HENRY HORN |
| DATE 6-14-88 | & SONS |
| CHECKED | TITLE |
| APPROVED | PLOT PLAN |
| JOB NO. 8897.1 | DRAWING NO. |
| | REV. |

WELL PURGING AND SAMPLING DATA

DATE: 2/11/91 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 _____ | gal per ft of casing = <u>0.17</u> |
| | column of water = <u>19.08'</u> |
| Depth to water <u>3.92'</u> | volume of casing = <u>3.24gal</u> |
| | number of volumes |
| Total depth of well <u>23'</u> | to remove x <u>3</u> |
| | total volume to |
| Column of water <u>19.08'</u> | remove = <u>9.72gal</u> |

Method of measuring liquid Oil/water interface probe

Method of purging well Bailer rate -

Method of decon Alconox/distilled water

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

Initial Clear, no odor.

During Slightly silty, slight petroleum odor.

Final Clear, slight petroleum odor.

| <u>Field Analysis</u> | <u>Initial</u> | <u>During</u> | <u>Final</u> |
|-----------------------|----------------|---------------|--------------|
| Time | <u>13:08</u> | <u>13:15</u> | <u>13:20</u> |
| Conductivity | <u>771</u> | <u>1245</u> | <u>1656</u> |
| pH | <u>7.05</u> | <u>6.79</u> | <u>6.68</u> |
| Temperature | <u>58.9</u> | <u>59.5</u> | <u>59.4</u> |

Method of measurement Hydac meter.

Total volume purged 9.75 gal

Comments Drum full.

Sample Number MW-1 Amount of Sample 3 40ml VOAs

Signed/Sampler _____ Date _____

Signed/Reviewer _____ Date _____



NET Pacific, Inc.

Client Acct: 495
Client Name: Blymyer Engineers, Inc
NET Log No: 6052

Date: 02-25-91
Page: 2

Ref: Peterson-Emeryville, Project: 89070

SAMPLE DESCRIPTION: MW-1 02-11-91 1338
LAB Job No: (-75619)

| Parameter | Method | Reporting Limit | Results | Units |
|------------------------|--------|-----------------|----------|-------|
| PETROLEUM HYDROCARBONS | | | -- | |
| VOLATILE (WATER) | | | -- | |
| DILUTION FACTOR * | | | 1 | |
| DATE ANALYZED | | | 02-21-91 | |
| METHOD GC FID/5030 | | | -- | |
| as Gasoline | | 0.05 | 1.3 | mg/L |
| METHOD 602 | | | -- | |
| DILUTION FACTOR * | | | 1 | |
| DATE ANALYZED | | | 02-21-91 | |
| Benzene | | 0.5 | 45 | ug/L |
| Ethylbenzene | | 0.5 | 4.8 | ug/L |
| Toluene | | 0.5 | 1.9 | ug/L |
| Xylenes, total | | 0.5 | 0.7 | ug/L |



NET Pacific, Inc.

Client Acct: 495
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NET Log No: 6052

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QUALITY CONTROL DATA

| Parameter | Reporting Limits | Units | Cal Verf Stand % Recovery | Blank Data | Spike % Recovery | Duplicate Spike % Recovery | RPD |
|-----------|------------------|-------|---------------------------|------------|------------------|----------------------------|-----|
| Gasoline | 0.05 | mg/L | 86 | ND | 110 | 112 | 1.8 |
| Benzene | 0.5 | ug/L | 88 | ND | 93 | 110 | 16 |
| Toluene | 0.5 | ug/L | 90 | ND | 97 | 95 | 1.6 |

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, wet-weight basis (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, $100 \{ \text{Value 1} - \text{Value 2} \} / \text{mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (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, 16th Edition, APHA, 1985.

BEI Field Services

1829 Clement Avenue

Alameda, CA 94501

6052

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) <i>Michael S. L.</i> | | | | | | | | | | | | |
| DATE | TIME | COMP. | GRAB | SAMPLE LOCATION | | | | | | | | |
| 2-11-91 | 13:00 | | X | Bailer Blank | 3V0A | | | | | | X | |
| 2-11-91 | 13:38 | | X | MW-1 | 3V0A | X | | | | | | 10 day TAT |
| <p>(CUSTODY SEALED <u>2/11/91</u>) @ 1400 <i>MWT</i> <i>and integrity</i></p> | | | | | | | | | | | | |
| Relinquished by: (Signature) <i>Michael S. L.</i> | | Date/Time 2/11/91 16:30 | | Received by: (Signature) <i>Mike Tawani</i> | | Date/Time 2/11/91 | | Relinquished by: (Signature) <i>Mike Tawani</i> | | Date/Time 2/11/91 | | Received by: (Signature) |
| Relinquished by: (Signature) | | Date/Time | | Received by: (Signature) | | Date/Time | | Relinquished by: (Signature) | | Date/Time | | Received by: (Signature) |
| Relinquished by: (Signature) (via MWS) | | Date/Time | | Received for Laboratory by: (Signature) <i>King</i> | | Date/Time 2/12/91 0800 | | Remarks Invoice & report to: Mike Lewis Blymyer Engineers, Inc. | | | | |