

93 OCT -7 PM 12: 36

QUARTERLY MONITORING REPORT

1059

UNOCAL Service Station #5325 3220 Lakeshore Avenue Oakland, California

781480-15

October 5, 1993



October 5, 1993

UNOCAL Corporation P.O. Box 5155 San Ramon, California 94583

Attn: Mr. David DeWitt

Re: QUARTERLY MONITORING REPORT

UNOCAL Service Station #5325

3220 Lakeshore Avenue

Oakland, California

Mr. Howard:

This Quarterly Monitoring Report has been prepared by GeoStrategies Inc. (GSI) and presents the results of the 1993 second quarter sampling for the above-referenced site (Plate 1).

There are currently three monitoring wells at the site; Wells U-1, U-2, and U-3 (Plate 2). These wells were installed in 1990 by GSI.

CURRENT QUARTER SAMPLING RESULTS

Depth-to-water measurements were obtained in each monitoring well on May 7, 1993. Static groundwater levels were measured from the surveyed top of the well box and recorded to the nearest <u>+</u>0.01 foot. Water-level elevations were referenced to Mean Sea Level (MSL) and are presented in Table 1. Water-level data were used to construct a quarterly potentiometric map (Plate 3). Shallow groundwater flow is to the south-southeast with an approximate hydraulic gradient of 0.02. Historically, shallow groundwater flow has been to the southwest. The recent change in flow direction may possibly be due to recent heavy rains.

Each well was checked for the presence of floating product. Floating product was not observed in the wells this quarter. Floating product has never been observed in these wells. The field data sheets are included in Appendix A.

781480-15

Unocal Corporation October 5, 1993 Page 2

Groundwater samples were collected on May 7, 1993. Samples were analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-Gasoline) according to EPA Method 8015 (Modified), and for Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) according to EPA Method 8020. The groundwater samples were analyzed by Anametrix Inc., a California State-certified laboratory located in San Jose, California. The laboratory analytical report and Chain-of-Custody form are included in Appendix B. These data are summarized and included with the historical chemical analytical data presented in Table 2. A chemical concentration map for benzene is presented on Plate 4. Field methods and procedures were presented in a previous GSI report dated April 28, 1992.

Unocal Corporation October 5, 1993 Page 3

If you have any questions, please call.

Ellen C. Fathermand

GeoStrategies Inc. by,

Ellen C. Fostersmith

Geologist

Stephen J. Carter Project Manager

RG 5577

Plate 1. Vicinity Map

Plate 2. Site Plan

Plate 3. Potentiometric Map

Plate 4. Benzene Concentration Map

Appendix A: Field Data Sheets

Appendix B: Laboratory Analytical Report and Chain-of-Custody

No. 5577

Form

QC Review: (

TABLE 1

FIELD MONITORING DATA

| WELL NO. | MONITORING DATE | CASING DIA. | TOTAL WELL DEPTH (FT) | WELL ELEV. | DEPTH TO WATER (FT) | PRODUCT THICKNESS (FT) | STATIC WATER ELEV. IFT) | PURGED WELL VOLUMES | Ha | TEMP (F) | CONDUCTIVITY |
|-------------|--------------------|-------------|--------------------------|------------|------------------------|------------------------------|-------------------------------|---------------------------|------|----------|--------------|
| U-1 | 07-Mey-93 | 3 | 20.30 | 5,75 | 8.60 | | (-2.85) | 6 | 6.74 | 68.4 | 1920 |
| U-2 | 07-May-93 | 3 | 20.0 | 4.94 | 7.62 | | (-2.68) | 5 | 6.60 | 71.4 | 1970 |
| U ∙3 | 07-Maγ-93 | 3 | 20.0 | 8.14 | 11.77 | | (-3.63) | 5 | 8,13 | 70.5 | 924 |

Notes:

Static water elevations referenced to Mean Sea Level (MSL).

2. Physical parameter measurements represent stabilized values.

TABLE 2
HISTORICAL GROUNDWATER QUALITY DATABASE

| SAMPLE DATE | SAMPLE POINT | TPH-G (PPB) | BENZENE (PPB) | TOLUENE (PPB) | ETHYLBENZENE (PPB) | XYLENES (PPB) |
|----------------|-----------------|----------------|------------------|------------------|-----------------------|------------------|
| 08-Oct-90 | U-1 | 690. | 38. | 75. | 8.6 | 130. |
| 07-Jan-91 | U-1 | 250. | 22. | 16. | 4.2 | 17. |
| 01-Apr-91 | U-1 | 160. | 13. | 8.6 | 1.0 | 15. |
| 03-Jul-91 | U-1 | 140 | 21 | 4.3 | 0.36 | 17 |
| 09-Oct-91 | U-1 | <30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| 12-Feb-92 | U-1 | 250 | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| 05-May-92 | U-1 | 230 | 1.2 | < 0.5 | < 0.5 | < 0.5 |
| 20-Aug-92 | U-1 | 400* | 1 | < 0.5 | < 0.5 | 0.6 |
| 06-Nov-92 | U-1 | 1000 | 80 | 1.4 | 6.7 | 41 |
| 22-Feb-93 | U-1 | 34000 | 1400 | 5500 | 910 | 7300 |
| 07-May-93 | U-1 | 8700 | 600 | 240 | 650 | 3300 |
| 08-Oct-90 | U-2 | 780. | 27. | 46. | 15. | 130. |
| 07-Jan-91 | U-2 | 1900. | 67. | 5.8 | 58. | 69. |
| 01-Apr-91 | U-2 | 1700. | 250. | 89. | 34. | 190. |
| 03-Jul-91 | U-2 | 2100 | 150 | 25 | 3.1 | 290 |
| 09-Oct-91 | U-2 | 230 | 7.1 | < 0.30 | < 0.30 | 11 |
| 12-Feb-92 | U-2 | 410 | 1.9 | < 0.30 | 0.36 | 0.40 |
| 05-May-92 | U-2 | 1600 | 120 | 52 | 6.2 | 290 |
| 20-Aug-92 | U-2 | 700 | 28 | 6.5 | 1.3 | 4.6 |
| 06-Nov-92 | U-2 | 620 | 17 | 2.1 | < 0.5 | 37 |
| 22-Feb-93 | U-2 | 3400 | 2400 | 2100 | 1200 | 5800 |
| 07-May-93 | U-2 | 17000 | 1800 | 660 | 1700 | 4000 |
| 08-Oct-90 | U-3 | < 50. | < 0.5 | <0.5 | < 0.5 | < 0.5 |
| 07-Jan-91 | U-3 | < 50. | < 0.5 | < 0.5 | < 0.5 | 1.8 |
| 01-Apr-91 | U-3 | < 50. | 1.0 | 2.9 | 0.53 | 5.4 |
| 03-Jul-91 | U-3 | <30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| 09-Oct-91 | U-3 | <30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| 12-Feb-92 | U-3 | <30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| 05-May-92 | U-3 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 20-Aug-92 | U-3 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |

TABLE 2
HISTORICAL GROUNDWATER QUALITY DATABASE

| SAMPLE DATE | SAMPLE POINT | TPH-G | BENZENE (PPB) | TOLUENE (PPB) | ETHYLBENZENE | XYLENES (PPB) |
|----------------|-----------------|-------|------------------|------------------|--------------|--|
| 06-Nov-92 | U-3 | <50 | <0.5 | <0.5 | <0.5 | and the control of the transfer of the control of t |
| 22-Feb-93 | U-3 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 07-May-93 | U-3 | <50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |

TPH-G

Total Petroleum Hydrocarbons calculated as Gasoline.

PPB

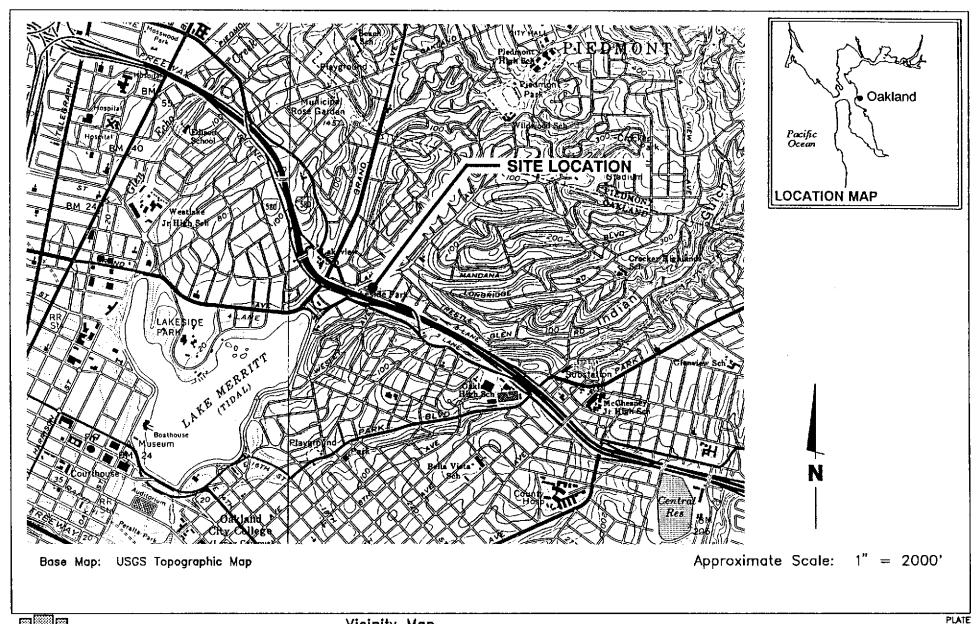
Parts Per Billion.

Notes: 1.

All data shown as <x are reported as ND (none detected).

2. Laboratory values are reported in units of ug/L, which are generally synonymous with parts per billion.

* The positive result for gasoline does not appear to have a typical gasoline pattern.





Vicinity Map UNOCAL Service Station #5325 3220 Lakeshore Avenue Oakland, California

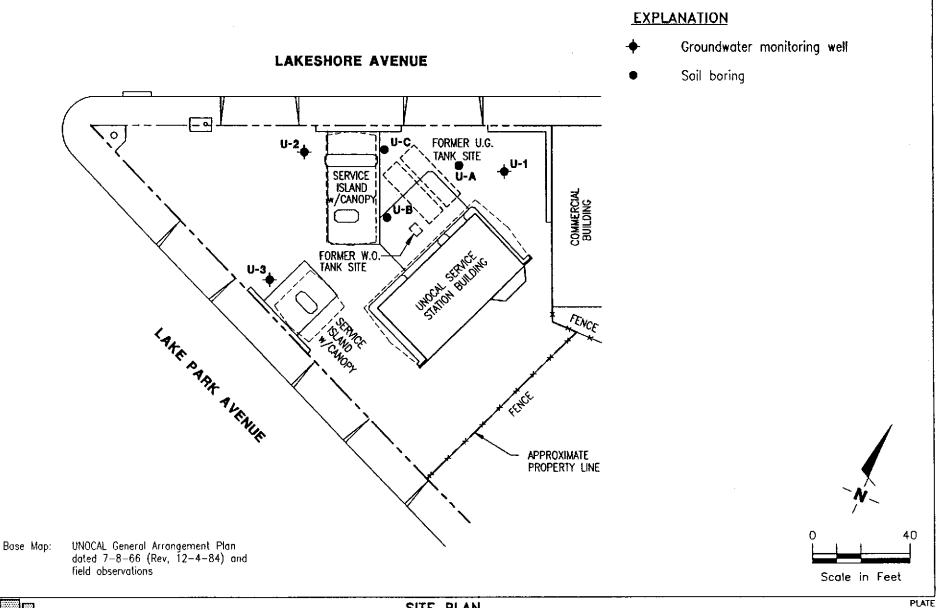
DATE

REVISED DATE

JOB NUMBER 7814

REVIEWED BY RG/CEG

6/90





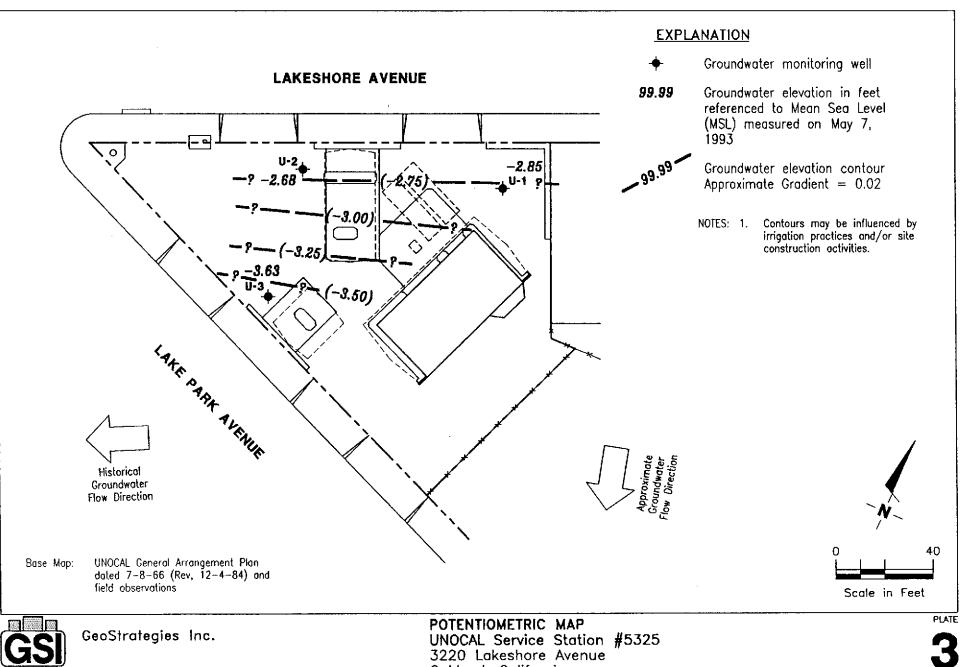
SITE PLAN UNOCAL Service Station #5325 3220 Lakeshore Avenue Oakland, California

2

JOB NUMBER 7814

REVIEWED BY

DATE 7/93 REVISED DATE



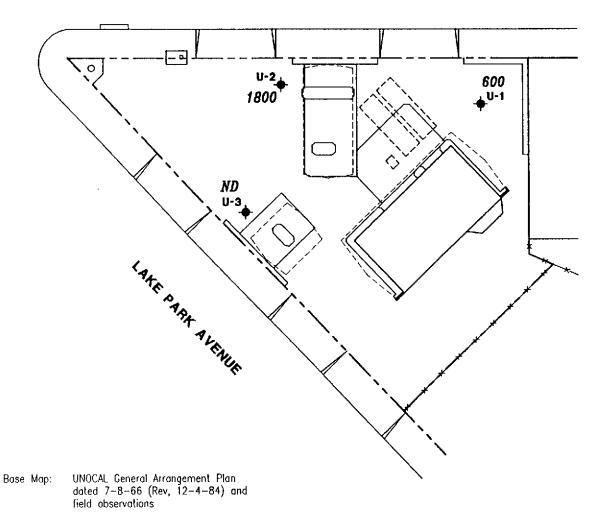
Oakland, California

REVISED DATE

JOB NUMBER 781480-15 REVIEWED BY

DATE 7/93

LAKESHORE AVENUE

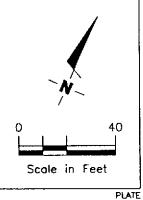


EXPLANATION

Groundwater monitoring well

5.00 Benzene concentration in ppb sampled on May 7, 1993

ND Not Detected (See laboratory reports for detection limits)





GeoStrategies Inc.

BENZENE CONCENTRATION MAP UNOCAL Service Station #5325 3220 Lakeshore Avenue Oakland, California

DATE

REVISED DATE

JOB NUMBER 781480-15 REVIEWED BY

7/93

General and Environmental Contractors

OBSERVATION WELL DAILY MONITOR RECORD

| | | # 5325 | | Job # <i>93:</i> | 19.80 |
|---------------|--|----------------|---------------|------------------|-----------|
| LOCATION | 3220 L | ake Store B | me | DATE | 7-93 |
| CITY | Og kland | (C 1/7 | | TIME | |
| WELL - | DEPTH TO LIQUID (DTH) OR (DTW) | EYDROCARBON TE | AFTER | AMOUNT PUMPED | COMMONTS |
| 11-1 | 8,60 | | 20,0 3 | TP 5/16/93 | |
| 1-2 | 7.62 | , | 20.0 | | |
| u-3 | 11.77 | | 20,0 | | |
| | | | | | |
| | | | | | |
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| | | • | | 49-49-4 | |
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| | | | | | |
| | | | | | |
| PRODUCT TANK: | TOTAL | | | LOINGETER | |
| | WATER | | | YTHER | |

FORTUAN

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

| | , , , | | | 28111 |
|------------------------|--|------------------------|--------------------------------|---------------------------------|
| COMPANY | | | JOB #_ | 3814.01 |
| LOCATION | 3250 Fake | Shore | DATE | 5-7-53 |
| CITY | Charlend | | TIME | 5-7-93 |
| | | | | |
| Well ID. | <u> </u> | Well Condition | on ac | OK |
| Well Diameter | 3ir | Hydrocarbon | Thickness | ft. |
| Total Depth | | Volume 2" Factor 3" | = 0.17 6" = 1 = 0.38 8" = 2 | 1.50 12" = 5.80 2.60 4.10 |
| Depth to Liquid- | | <u> </u> | | |
| (# of casing volumes) | x 11.70 | x(VF)38 | = Estimate Purge Volume | (d) 4,4 220 gal. |
| Purging Equipment_ | | # | • | 38 |
| Sampling Equipment | Bailer | | , ····· | 1360 |
| | | | | tuc 0 |
| Starting Time 12-0 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Purging Flow | • | gpm. |
| Estimated Purge Volume | | | om. = (Anticipate Purging Time | |
| Volume / | Rate | , | Time | J |
| Time | pН | Conductivity | Temperature | Volume |
| 12:02 | Ce-25 | 1854 | 20.6 | 5 gel |
| 12:64 | Q.71. | 1886 | 20,2 | 10 |
| 12:06 | 6.75 | 1907 | 20.2 | 15 |
| 12:08 | 6.71 | 1920 | 303 | 20 |
| 12:10 | G.74 | 1920 | 20.2 | <u>کر</u> خ |
| Did well dewater? | | If ves. time | Volu | me |
| Sampling Time | | | | |
| Analysis Gas | (BTYE) | Bottles | Used3× | 10 ml |
| Chain of Custody Nu | | | | |
| | | | | |
| COMMENTS | | | <u> </u> | |
| | | <u></u> | | |

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

| COMPANY | ()20cal | | JOB # | 3814.01 |
|-------------------------|------------|----------------------|--------------------------------------|---|
| LOCATION | 3770 14 | Keshore | DATE | 8-7-53 |
| LOCATION | truktur | ځ | TIME | 5-7-93 Ph |
| Well ID. | <u> </u> | Well Con | adition | OK |
| Well Diameter | 3 | in. Hydroca: | rbon Thickness | <u> </u> |
| Total Depth | 200 /600 | Factor | 2" = 0.17 6" = 3" = 0.38 8" = 3 | 2.60 |
| Depth to Liquid- | 7.02 | | 4" = 0.66 10" = € | |
| (# of casing volumes) 5 | x 12 38 | x(VF) | Purge Volume | $\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}$ |
| Purging Equipment_ | DO | | 12.35 | 23.5 |
| Sampling Equipment | \sim 7 | | 904 | |
| | | 37 | 14 | |
| Starting Time | | Purging F | 099 low Rate | gpm. |
| (Estimated) Purge | gal. / (Pu | rging low tate | gpm. = (Anticipat Purging Time | min. |
| Time | pН | Conductivity | Temperature | Volume |
| 11:42 | 689 | 1468 | 22.0 | 5 gel |
| 11:44 | 4.75. | 1970 | 21,8 | |
| 11:46 | 6.56 | 1990 | 21.8. | |
| 11:48 | 6,59 | 1970 | 21.8 | 2.0 |
| 11:50 | le-40 | 1970 | 21.9 | 25 |
| Did well dewater? | MO | If yes, time | Volu | me |
| Sampling Time | 1.55 | Weather Con | nditions P/C | |
| Analysis 905 | (BTYE) | Bot | tles Used 3 × ' | 40 ml |
| Chain of Custody Nu | | | | |
| CONMENTS | | | | |

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

| COMPANY | Unocal | | JOB #_ | 3814.01 |
|-----------------------------|------------|---------------|------------------------------------|---------------------------------|
| LOCATION | | Shore | DATE | |
| CITY | Controland | | TIME | 5-7-93 H |
| | | | | |
| Well ID. | <u> </u> | Well Cond | ition | UK |
| Well Diameter | 3 | in. Hydrocarb | on Thickness | |
| Total Depth | 2000 | ft. Volume 2 | 2" = 0.17 6" = 3" = 0.38 6" = 3 | 1.50 12" = 5.80 2.60 |
| Depth to Liquid- | | | " = 0.66 10" = | 4.10 |
| (# of casing volumes) | x1.23 | x(VF) . 38 | | $\left(\frac{3}{3}\right)$ gal. |
| Purging Equipment | OC | 1 . | ·38/ | |
| Sampling Equipment | ر د | 167 | 84 | |
| | | 3.12 | 74 | <u>.</u> |
| Starting Time | 11:23 | Purging Flo | w Rate | gpm. |
| (Estimated) Purge Volume | gal. Purgi | | gpm. = (Anticipate Purging Time | min. |
| Time | pН | Conductivity | Temperature | Volume |
| 11:24 | 7.17 | 965 | 20.7 | 3 gel |
| 11.26 | 8.11. | 964 | 20, T | 6 |
| 11:27 | 7.14 | 930 | 21,3 | 8 |
| 11:28 | 8.14 | 9823 | 21.4 | 12 |
| 11:29 | 8,13 | 924 | 21.4 | 15 |
| Did well dewater? | Mo | If wes time | Volu | me |
| | 11.0 | | itions P/L | |
| Analysis 969 | | Bottl | es Used 3 × ° | 10 ml |
| Chain of Custody Nu | | | | |
| | | | | |
| CONDUENTS | | | | |
| | | | <u></u> | |

NAMETRIX INC

Control of Landers Michael



MR. CLIFF GARRETT

GETTLER RYAN/GEOSTRATEGIES

2150 W. WINTON AVENUE HAYWARD, CA 94545

Workorder # : 9305066 Date Received: 05/07/93

Project ID : 9814.80

Purchase Order: 9814.80

The following samples were received at Anametrix, Inc. for analysis :

| ANAMETRIX ID | CLIENT SAMPLE ID |
|--------------|------------------|
| 9305066- 1 | U-1 |
| 9305066- 2 | U-2 |
| 9305066- 3 | U-3 |
| 9305066- 4 | T. BLANK |

This report consists of 5 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Saran Schoen

Laboratory Director

REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MR. CLIFF GARRETT

GETTLER RYAN/GEOSTRATEGIES

2150 W. WINTON AVENUE

HAYWARD, CA 94545

Workorder # : 9305066
Date Received : 05/07/93
Project ID : 9814.80
Purchase Order: 9814.80
Department : GC

Sub-Department: TPH

SAMPLE INFORMATION:

| ANAMETRIX SAMPLE ID | CLIENT SAMPLE ID | MATRIX | DATE SAMPLED | METHOD |
|------------------------|---------------------|--------|-----------------|-----------|
| 9305066- 1 | U-1 | WATER | 05/07/93 | TPHg/BTEX |
| 9305066- 2 | U-2 | WATER | 05/07/93 | TPHg/BTEX |
| 9305066- 3 | U-3 | WATER | 05/07/93 | TPHg/BTEX |
| 9305066- 4 | T. BLANK | WATER | 05/04/93 | TPHg/BTEX |

REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MR. CLIFF GARRETT

GETTLER RYAN/GEOSTRATEGIES 2150 W. WINTON AVENUE HAYWARD, CA 94545

Workorder # : 9305066
Date Received : 05/07/93
Project ID : 9814.80
Purchase Order: 9814.80

Department : GC

Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Department Supervisor

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9305066 Project Number: 9814.80 Matrix: WATER Date Released: 05/17/93

Date Sampled : 05/04 & 07/93

| | Reporting Limit | Sample I.D.# U-1 | Sample I.D.# U-2 | Sample I.D.# U-3 | Sample I.D.# T. BLANK | |
|--|--------------------------------|-----------------------------------|--------------------------------------|----------------------------|-----------------------------|------------------------------|
| COMPOUNDS | (ug/L) | -01 | -02 | -03 | -04 | -05 |
| Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline | 0.5 0.5 0.5 0.5 50 | 600 240 650 3300 8700 | 1800 660 1700 4000 17000 | ND ND ND ND ND | ND ND ND ND ND | ND ND ND ND |
| % Surrogate Reco Instrument I.I Date Analyzed RLMF | | 134% HP4 05/13/93 100 | 127% HP4 05/12/93 100 | 128% HP4 05/12/93 | 130% HP4 05/12/93 | 130% HP4 05/12/93 1 |

ND - Not detected at or above the practical quantitation limit for the method.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 61-139%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Analyst Date

Ohno Roma 5/17/53 Supervisor Date

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT EPA METHOD 5030 WITH GC/FID ANAMETRIX, INC. (408) 432-8192

Anametrix I.D. : 05066-03 Analyst : 15 Sample I.D. : 9814.80 U-3

Analyst : II Supervisor : co Date Released : 05/17/93 Instrument I.D.: HP4 Matrix : WATER
Date Sampled : 05/07/93

Date Analyzed: 05/12/93

| COMPOUND | SPIKE AMT (ug/L) | SAMPLE CONC (ug/L) | REC MS (ug/L) | %REC MS | REC MD (ug/L) | %REC MD | RPD | %REC LIMITS |
|---|------------------------------|--------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|----------------------|--------------------------------------|
| BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES | 20.0 20.0 20.0 20.0 | 0.0 | 18.3 20.8 21.2 22.9 | 92% 104% 106% 115% | 19.8 22.3 22.8 24.3 | 99% 112% 114% 122% | 8% 7% 7% 6% | 45-139 51-138 48-146 50-139 |
| p-BFB | | | | 120% | | 118% | | 61-139 |

^{*} Quality control established by Anametrix, Inc.

TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT EPA METHOD 5030 WITH GC/PID ANAMETRIX, INC. (408) 432-8192

Anametrix I.D. : LCSW0512

Sample I.D. : LAB CONTROL SAMPLE Matrix : WATER Date Sampled : N/A Date Analyzed : 05/12/93 Analyst : IJ
Supervisor :
Date Released : 05/17/93

Instrument I.D.: HP4

| COMPOUND | SPIKE AMT. (ug/L) | LCS (ug/L) | REC LCS | %REC LIMITS |
|---|------------------------------|------------------------------|------------------------------|--------------------------------------|
| Benzene Toluene Ethylbenzene TOTAL Xylenes | 20.0 20.0 20.0 20.0 | 20.2 22.2 23.2 24.3 | 101% 111% 116% 122% | 52-133 57-136 56-139 61-139 |
| P-BFB | | | 122% | 61-139 |

^{*} Limits established by Anametrix, Inc.

| | - proper | 9305066 | - (| (18) | |
|-----------------------------|--|--|--|--|--|
| Gettler - Ryan Inc | | IRONNENT A POLY | VISION | 2886 CI | hain of Custody |
| COMPANY U1700 | 1/ | 5325 | | JOB NO. | · |
| JOB LOCATION 3,220 | _late | shore | | | |
| cityGat/a | and | CH_ | | PHONE NO. | |
| AUTHORIZED CIPF | Garrett | DATE _ | 5-7-93 | P.O. NO | 314,80 |
| SAMPLE NO. OF 1D CONTAINERS | SAMPLE MATRIX | DATE/TIME SAMPLED | ANALYSIS REQU | | SAMPLE CONDITION LAB ID |
| U-1 3 | | 5.7-93/521 | > THUCK | s) BTXE | |
| 4-2 3 | | 1/11/5 | 5 | | (2) |
| u-3 3 | | 10/11:35 | | | 3 |
| Trip Blant 2 | * | | | | (4) |
| | - | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | | |
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| W/llh. | 5-7-93 | | | <u> </u> | |
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| RELINQUISHED BY: | | RECE | EIVED BY LAB; | | -5/7/93 |
| | | | Mind | | 15/13/16 |
| DESIGNATED LABORATORY: | Ingness! | · X | DHS #: _: | | |
| REMARKS: | | | | | |
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| · | | | | | |
| DATE COMBINED | 7-93 | | ENABAL F. | Clin | |
| DATE COMPLETED | 7-93 | FORÉ | MAN | Clin | |