H2OGEOL
A GROUNDWATER CONSULTANCY



Ms. Juliet Shin
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502-6577

May 07, 1996

RE: Third consecutive quarter (2nd Quarter, 1996) groundwater monitoring: 1081-1085 Eastshore Highway (formerly 1077 Eastshore Frontage Road), Albany, California.

Dear Ms. Shin;

This letter report provides the results of the third consecutive quarter (Second Quarter, 1996) sampling of the monitoring wells at 1081-1085 Eastshore Highway (formerly 1077 Eastshore Frontage Road), Albany, California (Figure 1).

Depth to water in each monitoring well was measured to +/- 0.01 feet using a Solinst Model 101 water level meter on April 10, 1996. The depth to water was converted to potentiometric surface elevation by subtracting the measured depths to water from the casing top elevation. This information is presented below.

WELL AND GROUNDWATER ELEVATIONS
APRIl 10, 1996

| Well Number | Top of Casing Elevation (feet, msl) | Time of Depth measurement | Depth to Water (feet) | Groundwater Surface Elevation (feet, msl) |
|---|---|---|---|---|
| MW-4 | 8.58 | 12:18 | 5.92 | 2.66 |
| MW-K | 8.43 | 12:09 | 5.08 | 3.35 |
| MW-L | 7.64 | 12:16 | 4.92 | 2.72 |
| MW-N | 8.96 | 12:13 | 5.23 | 3.73 |

The groundwater flow direction (more precisely direction of groundwater gradient, since the horizontal hydraulic conductivity anisotropy is unknown) for the triangle with a well at each apex is S 5.0° E at a gradient of 0.0113. Figure 2 is a potentiometric surface map showing well locations and groundwater surface contours as measured on April 10, 1996. Historic water level information follows.

| | | | | |
|---|---|---|---|---|
| MW-4 | 10/17/95 | 09:49 | 6.57 | 2.01 |
| | 01/11/96 | 12:46 | 8.58 | 2.14 |
| | 04/10/96 | 12:18 | 5.92 | 2.66 |
| MW-K | 10/17/95 | 10:01 | 5.74 | 2.69 |
| | 01/11/96 | 12:36 | 8.43 | 2.91 |
| | 04/10/96 | 12:09 | 5.08 | 3.35 |
| MW-L | 10/17/95 | 09:53 | 5.78 | 1.86 |
| | 01/11/96 | 12:45 | 7.64 | 2.59 |
| | 04/10/96 | 12:16 | 4.92 | 2.72 |
| MW-N | 10/17/95 | 09:56 | 6.02 | 2.94 |
| | 01/11/96 | 12:41 | 8.96 | 3.29 |
| | 04/10/96 | 12:13 | 5.23 | 3.73 |

GROUNDWATER FLOW DIRECTION AND GRADIENT

10/17/95 S 16.4° W at a gradient of 0.0053
01/11/96 S 19.1° E at a gradient of 0.0104
04/10/96 S 5.0° E at a gradient of 0.0113

AVERAGE S 2.6° E at a gradient of 0.009

Following water level measurements the groundwater surface at each monitoring well was checked for free product, observation of sheen, and odor. No free product, sheen, or hydrocarbon odor was noted.

The monitoring wells were purged by pumping with an "ES-60" submersible pump marketed for monitoring well purging by Enviro-Tech Services Co. of Martinez, California. Field measured water quality parameters were measured using a Cambridge Scientific Industries Hydac™ Conductivity Temperature pH Tester. Well purging activities and the field measured water quality parameters are documented in Attachment A. For each well, purging continued until specific conductance stabilized to +/- 5% on consecutive readings.

Groundwater samples were collected directly from the end of the pump discharge tubing with the pump discharging at a rate of less than one liter per minute. Groundwater samples for TPH-D analysis were collected in one liter amber glass bottles. Groundwater samples for TPH-G plus BTEX were collected in 40-mL glass vials with Teflon™ septum lids.

Groundwater sample bottles were labeled and placed in an ice chest with 2 Liter plastic bottles containing ice. Chain-of-Custody forms were filled out and were delivered with the ice chest to Chromalab, Inc. of Pleasanton, California, a state certified laboratory.

Groundwater samples from both monitoring wells MW-4 and MW-L were found not to contain detectable concentrations of petroleum hydrocarbons. Monitoring well MW-4 was found to contain 630 micrograms per liter (µg/L) of hydrocarbons in the Diesel range that do not match the laboratory diesel standard. As detailed in the December 22, 1995 letter these are attributed to hydrocarbons derived from decayed vegetation encountered in the monitoring well borehole. The laboratory report, including chromatograms, and Chain-of-Custody documentation is contained in Attachment B. The historic groundwater sample analytical results are summarized below.

really? What evidence?

All concentrations are expressed in micrograms per liter (µg/L).

| Well | TPH-D | TPH-G | Benzene | Toluene | Ethyl-benzene | Total Xylenes |
|---|---|---|---|---|---|---|
| MW-4 | | | | | | |
| 10/17/95 | 440* | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| * | *Superior Analytical reports all compounds from C10-C25 as Diesel. | | | | | |
| 01/11/96 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | Chromalab reported 460 µg/L unknown hydrocarbons in the diesel range. | | | | | |
| 04/10/96 | 630 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | Chromalab reported 630 µg/L, but not matching their diesel standard. See also the attached April 4, 1996 letter. | | | | | |
| MW-L | | | | | | |
| 10/17/95 | 180* | <50 | 1.3 | <0.5 | 0.6 | 0.5 |
| * | *Superior Analytical reports all compounds from C10-C25 as Diesel. | | | | | |
| 01/11/96 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| 04/10/96 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| California*Primary MCL's | | | | | | |
| | na | na | 1 | na | 680 | 1,750 |
| US E.P.A.*Primary MCL's | | | | | | |
| | na | na | 5 | 1,000 | 700 | 10,000 |

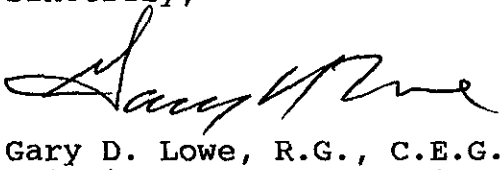
na - not available

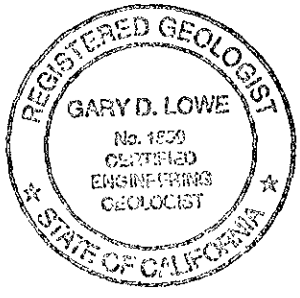
Marshack, Jon B., D. Env. 1991, A Compilation of Water Quality Goals, Central Valley Regional Water Quality Control Board.

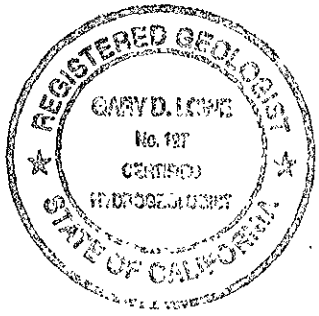
The fourth consecutive quarter (Third Quarter, 1996) sampling event at 1081-1085 Eastshore Highway (formerly 1077 Eastshore Frontage Road), Albany, California is scheduled for the week of July 08, 1996.

Please do not hesitate to call me at (510) 373-9211 should you have any questions.

Sincerely,

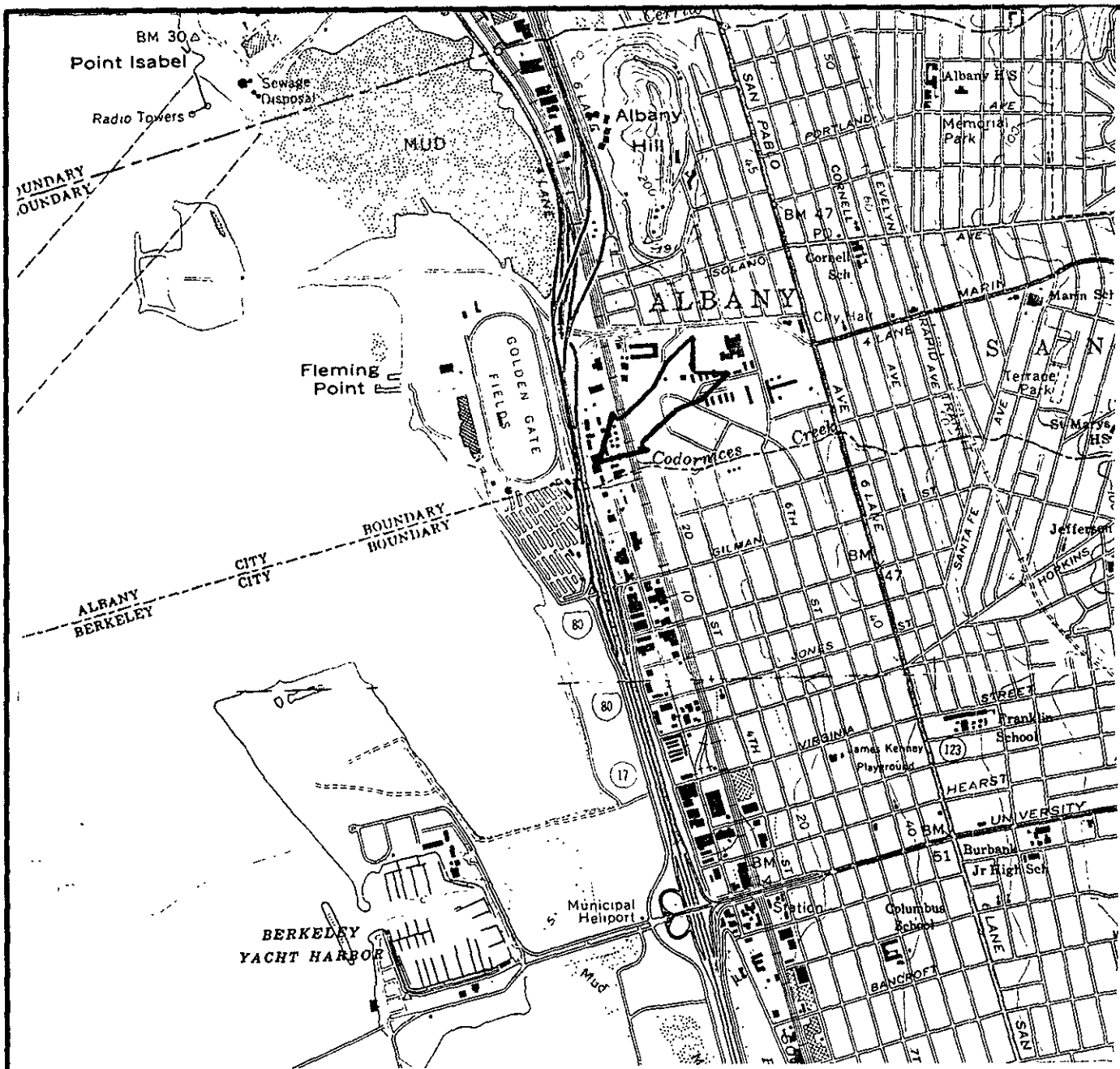





Gary D. Lowe, R.G., C.E.G., C.H.
Principal, Hydrogeologist
Sole Proprietor

xc: Mr. John Piggott, Wilanco, Inc., P.O. Box 8117, Berkeley, CA, 94563




Base from U.S. Geological Survey Richmond and Oakland West 7.5 Minute Series Topographic Maps

NORTH

1000 0 1000 2000 3000 4000 5000 FEET

CALIF

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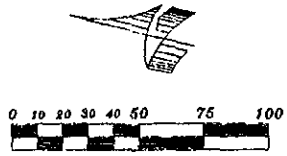
**SITE LOCATION MAP**

**1081-1085 EASTSHORE HIGHWAY**
**ALBANY, CALIFORNIA**

**FIGURE 1**



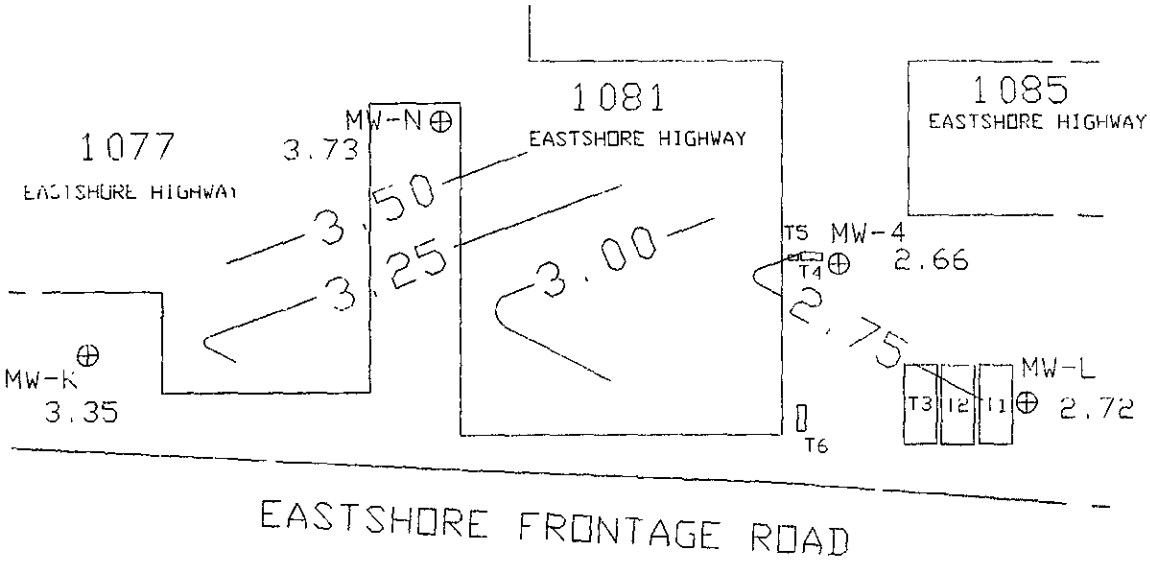

MW-N Monitoring Well name/Number

⊕ Monitoring Well Location

Groundwater Surface Elevation at monitoring well

T1, T2, & T3 Diesel
T4, T5, & T6 Gasoline
Information from ENSR, June 17, 1993, Wilbanco Tank Removal Report

Potentiometric Surface Contour and Contour Elevation




**GRADIENT = 0.0113 Feet/Foot**

**DIRECTION OF GRADIENT = S 5.0° E**
**(Approximate groundwater flow direction, uncorrected for hydraulic conductivity anisotropy).**

**Tank locations and dimensions are approximate after ENSR, 1993, Figure 1.**

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**POTENTIOMETRIC SURFACE MAP**
**APRIL 10, 1996**
**1077-1085 EASTSHORE HIGHWAY**
**ALBANY, CALIFORNIA**

**FIGURE**
**2**

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P.O.Box 2165 ▪ Livermore, California 94551 ▪ 510-373-9211

# ATTACHMENT A

## FIELD DATA SHEET
## LOG OF WELL SAMPLING ACTIVITIES

# LOG OF WELL SAMPLING ACTIVITIES

Well Identification: MW-L Project Name: 1081-1085 Eastshore Highway, Albany, CA Date: 04/10/96

Sampled by: G. Lowe & R. Vorst Weather Conditions: clear, breezy, 67°F

Well Location: _____ Well Casing Diameter: 2-inch Depth of Well Casing: 14.20

Measuring Point: Top of PVC Casing Initial Depth to Water: 4.92 Final Depth to Water: Not measured

Casing Volume (1 vol./ 3 vol): 1.5 / 4.5 Well Borehole Volume: _____

Purging Method:
- Centrifugal Pump/Peristaltic Pump
- Grundfos Submersible Pump
- Centrifugal Pump/ES-60 Submersible
- ES-60 Submersible Pump X

Sampling Method:
- Peristaltic Pump
- Grundfos Submersible Pump
- ES-60 Sub. Pump < 1L/min. X
- Teflon Bailer

Purging Rate: See below Total Discharge: 6.8 Casing Volumes Purged: 4.6

Comments: _____

Waste Water Disposal: To property site drum.

Starting Time: 13:02

Time Pump on: 13:05

| Date | Time | Gal. Purged | pH | T deg. F | Diluted S.C. | | Dil. Factor | | S.C. (µS/cm) | Color |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/10/96 | 13:09 | 4.2 | 6.79 | 67.8 | 14420 | x | 2 | = | 14 | Colorless |
| " | 13:13 | 5.6 | 7.01 | 68.0 | 14,330 | x | 2 | = | | " |
| " | 13:16 | 5.9 / complied | 7.11 | 68.2 | ~~14,350~~ | x | | = | 9,350 | " |
| " | 13:19 | 6.2 / complied | 7.13 | 68.2 | ~~9,520~~ | x | | = | 9,520 | " |
| " | 13:21 | 6.5 / complied | 7.09 | 67.9 | | x | | = | 9,210 | " |
| " | 13:24 | 6.8 / complied | 7.15 | 68.1 | | x | | = | 9,290 | " |
| | : | | | | | x | | = | | |
| | : | | | | | x | | = | | |
| | : | | | | | x | | = | | |
| | : | | | | | x | | = | | |
| | : | | | | | x | | = | | |

Sample Identification: 1081-85/MW-L Sample Time: 13:25

TURBIDITY ANALYSIS

Finishing Time: 13:30 Time Analyzed: _____ NTU Value: _____

# LOG OF WELL SAMPLING ACTIVITIES

Well Identification: MW-4 Project Name: 1081-1085 Eastshore Highway, Albany, CA Date: 04/10/96

Sampled by: G. Lowe & R. Vorst Weather Conditions: clear, breezy, 67°F

Well Location: _____ Well Casing Diameter: 2-inch Depth of Well Casing: 14.21

Measuring Point: Top of PVC Casing Initial Depth to Water: 5.92 Final Depth to Water: Not measured

Casing Volume (1 vol./ 3 vol): 1.3/ 4.0 Well Borehole Volume: _____

Purging Method:
- Centrifugal Pump/Peristaltic Pump
- Grundfos Submersible Pump
- Centrifugal Pump/ES-60 Submersible
- ES-60 Submersible Pump X

Sampling Method:
- Peristaltic Pump
- Grundfos Submersible Pump
- ES-60 Sub. Pump < 1L/min. X
- Teflon Bailer

Purging Rate: See below Total Discharge: 5.5 Casing Volumes Purged: 4.1

Comments: _____

Waste Water Disposal: To property site drum.

Starting Time: 12:23

Time Pump on: 12:33

| Date | Time | Gal. Purged | pH | T deg. F | Diluted S.C. | | Dil. Factor | | S.C. (µS/cm) | Color |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/10/96 | 12:40 | 2.8 | 6.78 | 70.2 | | x | | = | 7,530 | Gray |
| " | 12:43 | 3.2 | 6.79 | 67.9 | | x | | = | 7,400 | " |
| " | 12:45 | 3.6 | 6.78 | 67.4 | | x | | = | 6470 | " |
| " | 12:48 | 4.1 | 6.91 | 67.7 | | x | | = | 4780 | " |
| " | 12:50 | 4.5 | 6.82 | 67.9 | | x | | = | 4960 | " |
| " | 12:52 | 5.0 | 6.79 | 67.7 | | x | | = | 5110 | " |
| " | 12:54 | 5.5 | 6.81 | 67.8 | | x | | = | 5020 | " |
| | : | | | | | x | | = | | |
| | : | | | | | x | | = | | |
| | : | | | | | x | | = | | |
| | : | | | | | x | | = | | |

Sample Identification: 1081-85/MW-4 Sample Time: 12:55

TURBIDITY ANALYSIS

Finishing Time: 13:02 Time Analyzed: _____ NTU Value: _____

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P.O.Box 2165 ▪ Livermore, California 94551 ▪ 510-373-9211

# ATTACHMENT B

## LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY DOCUMENTATION

# CHROMALAB, INC.

Environmental Services (SDB)

April 16, 1996 *Submission #:* 9604589

H2O GEOL

*Atten:* Gary Lowe

*Project:* WILANCO,INC
*Received:* April 10, 1996

*re:* 2 samples for Gasoline and BTEX compounds analysis.
*Method:* *EPA 5030/8015M/8020*

*Matrix:* WATER
*Sampled:* April 10, 1996 *Run#:* 1073 *Analyzed:* April 15, 1996

| Spl# | CLIENT SPL ID | Gasoline (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethyl Benzene (ug/L) | Total Xylenes (ug/L) |
|---|---|---|---|---|---|---|
| *82220* | 1081-85/MW-4 | N.D. | N.D. | N.D. | N.D. | N.D. |
| *82221* | 1081-85/MW-L | N.D. | N.D. | N.D. | N.D. | N.D. |
| Reporting Limits | | 50 | 0.50 | 0.50 | 0.50 | 0.50 |
| Blank Result | | N.D. | N.D. | N.D. | N.D. | N.D. |
| Blank Spike Result (%) | | 116 | 107 | 110 | 113 | 116 |

Billy Thach
Chemist

Marianne Alexander
Gas/BTEX Supervisor

510 373 8222 GC 04/24

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

V115 0:0C0405 BILLY 17:07

# CHROMALAB, INC.

Environmental Services (SDB)

April 24, 1996 *Submission #:* 9604589

H2O GEOL
*Atten:* Gary Lowe

*Project:* WILANCO,INC
*Received:* April 10, 1996

*re:* 2 samples for TPH - Diesel analysis.
*Method:* *EPA 3510/8015M*

*Matrix:* WATER *Extracted:* April 11, 1996
*Sampled:* April 10, 1996 *Run#:* 1045 *Analyzed:* April 12, 1996

| Spl# | CLIENT SPL ID | DIESEL (ug/L) | REPORTING LIMIT (ug/L) | BLANK RESULT (ug/L) | BLANK SPIKE (%) | DILUTION FACTOR |
|---|---|---|---|---|---|---|
| *82220* | 1081-85/MW-4 | 630 | 50 | N.D. | 93.4 | 1.0 |
| | *Note: HYDROCARBON REPORTED DOES NOT MATCH CHROMALAB'S DIESEL STANDARD.* | | | | | |
| *82221* | 1081-85/MW-L | N.D. | 50 | N.D. | 93.4 | 1.0 |

Dennis Mayugba
Chemist

Alex Tam
Semivolatiles Supervisor



1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

559/82...-2221

27318

# CHAIN OF CUSTODY


$H_2OGEOL$ A GROUNDWATER CONSULTANCY

P.O. BOX 2165
LIVERMORE, CALIFORNIA 94551-2165


DATE: 04/10/96 PAGE 1 of 1

Sample Source:
Wilanco, Inc.
1081-1085 Eastshore Highway
Alba

SAMPLER(S): Gary D. Lowe & Richard C. Vorst

SAMPLER'S SIGNATURE:

SUBM #: 9604589 RFP: GC
CLIENT: H2OGEOL
DUE: 04/24/96
REF #:27318

**SAMPLE RECIEPT:**

TOTAL No of CONTAINERS
CHAIN OF CUSTODY SEALS
REC'D GOOD CONDITION/COLD
CONFORMS TO RECORD

LAB NO.

| SAMPLE ID. | DATE | TIME | MATRIX | LAB ID. | TPH-gasoline (5030/8015M) plus BTEX (EPA 602/8020) | TPH-diesel (EPA 3550/8015M) | NUMBER OF CONTAINE |
|---|---|---|---|---|---|---|---|
| 1081-B6/MW-4 | 04/10/96 | 12:55 | water | | X | X | 3 |
| 1081-B6/MW-L | 04/10/96 | 13:15 | water | | X | X | 3 |
| | | | | | | | |
| | | | | | | | |
| | PROVIDE CHROMATOGRAMS FOR EPA 3550/8015M | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Please note special pricing
per Gary Cook
10-DAY TAT

RELINQUISHED BY:
SIGNATURE
TIME
PRINTED NAME Gary D. Lowe
COMPANY $H_2OGEOL$
DATE 04/10/96

RELINQUISHED BY: Laboratory Currier
SIGNATURE
TIME
PRINTED NAME
DATE
COMPANY

RECEIVED BY: Laboratory Currier
SIGNATURE
TIME
PRINTED NAME
DATE
COMPANY

RECEIVED BY LABORATORY:
SIGNATURE
TIME 1454
PRINTED NAME Chris Rowley
DATE 4/10/96
COMPANY CHROMALAB, INC.
DATE 04/10/96

Software Version: 4.0<00C4A>
Sample Name : 4589/MW-L1081-95 Time : 4/12/96 13:00
Sample Number: 82221 Study :
Operator :

Instrument : GD6000 Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2303570742 Data Acquisition Time: 4/12/96 12:25
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : D:\GLYCOL60\G411031.RAW
Result File : D:\GLYCOL60\G411031.RST
Inst Method : C:\TC4\DEFG60 from D:\GLYCOL60\G411091.RST
Proc Method : C:\TC4\DEFG60
Calib Method : C:\TC4\DEFG60
Sequence File : C:\TC4\DATA\GD041196.SEQ

Sample Volume : 1 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

4/24/96

# G6000 DIESEL REPORT

| Peak # | Time [min] | Area [µV*s] | BL | Raw Amount | Component Name | Diesel ppm |
|---|---|---|---|---|---|---|
| 1 | 6.841 | 53996.69 | *BV | 0.3814 | | 0.3814 |
| 2 | 7.913 | 34523.31 | *VB | 0.2057 | | 0.2057 |
| 3 | 8.529 | 7478.20 | *BV | 0.0446 | | 0.0446 |
| 4 | 8.609 | 11690.27 | *VV | 0.0697 | | 0.0697 |
| 5 | 8.911 | 3299.68 | *VV | 0.0197 | | 0.0197 |
| 6 | 9.004 | 4995.02 | *VV | 0.0298 | | 0.0298 |
| 7 | 9.330 | 4744.76 | *VV | 0.0283 | | 0.0283 |
| 8 | 9.566 | 3847.64 | *VV | 0.0229 | | 0.0229 |
| 9 | 9.771 | 4113.43 | *VB | 0.0245 | | 0.0245 |
| 10 | 10.405 | 4749.67 | *BV | 0.0283 | | 0.0283 |
| 11 | 10.543 | 5217.60 | *VV | 0.0311 | | 0.0311 |
| 12 | 10.709 | 2826.72 | *VB | 0.0168 | | 0.0168 |
| 13 | 10.927 | 13892.59 | *BV | 0.0828 | | 0.0828 |
| 14 | 11.228 | 13463.18 | *VB | 0.0802 | | 0.0802 |
| 15 | 11.345 | 3704.00 | *BV | 0.0221 | | 0.0221 |
| 16 | 11.660 | 5038.68 | *VV | 0.0300 | | 0.0300 |
| 17 | 11.869 | 2469.81 | *VV | 0.0147 | | 0.0147 |
| 18 | 11.975 | 4701.92 | *VV | 0.0280 | | 0.0280 |
| 19 | 12.335 | 25633.60 | *VV | 0.1528 | | 0.1528 |
| 20 | 12.513 | 12699.54 | *VV | 0.0757 | | 0.0757 |
| 21 | 12.783 | 3968.17 | *VV | 0.0236 | | 0.0236 |
| 22 | 12.857 | 4923.62 | *VV | 0.0293 | | 0.0293 |
| 23 | 13.033 | 3426.90 | *VB | 0.0204 | | 0.0204 |
| 24 | 13.237 | 2755.38 | *BV | 0.0164 | | 0.0164 |
| 25 | 13.552 | 17965.26 | *VV | 0.1071 | | 0.1071 |
| 26 | 13.953 | 2174.48 | *VV | 0.0130 | | 0.0130 |
| 27 | 14.037 | 18500.51 | *VV | 0.1103 | | 0.1103 |
| 28 | 14.476 | 6980.92 | *VV | 0.0416 | | 0.0416 |
| 29 | 14.590 | 8826.07 | *VV | 0.0526 | | 0.0526 |
| 30 | 14.709 | 2738.41 | *VV | 0.0163 | | 0.0163 |
| 31 | 14.789 | 6260.33 | *VV | 0.0373 | | 0.0373 |
| 32 | 14.871 | 2478.70 | *VV | 0.0148 | | 0.0148 |
| 33 | 15.070 | 4877.07 | *VV | 0.0291 | | 0.0291 |
| 34 | 15.234 | 23831.06 | *VV | 0.1420 | | 0.1420 |
| 35 | 15.366 | 5530.99 | *VV | 0.0330 | | 0.0330 |
| 36 | 15.460 | 11300.48 | *VV | 0.0673 | | 0.0673 |
| 37 | 15.554 | 8943.24 | *VV | 0.0533 | | 0.0533 |
| 38 | 15.772 | 14544.36 | *VV | 0.0867 | | 0.0867 |
| 39 | 15.880 | 5252.95 | *VV | 0.0313 | | 0.0313 |
| 40 | 15.972 | 7991.19 | *VV | 0.0476 | | 0.0476 |
| 41 | 16.161 | 8402.73 | *VV | 0.0501 | | 0.0501 |
| 42 | 16.278 | 9591.67 | *VV | 0.0572 | | 0.0572 |
| 43 | 16.364 | 20614.72 | *VV | 0.1229 | | 0.1229 |
| 44 | 16.549 | 7736.79 | *VV | 0.0461 | | 0.0461 |
| 45 | 16.762 | 13507.68 | *VV | 0.0805 | | 0.0805 |
| 46 | 16.870 | 2540.71 | *VV | 0.0151 | | 0.0151 |
| 47 | 16.959 | 6770.17 | *VV | 0.0403 | | 0.0403 |
| 48 | 17.080 | 5031.01 | *VV | 0.0300 | | 0.0300 |
| 49 | 17.237 | 8757.40 | *VV | 0.0522 | | 0.0522 |
| 50 | 17.357 | 4967803.53 | *VB | 25.4348 | OTP | 25.4348 |

127.1740
LRL 4/24/96
LAH

| Peak # | Time [min] | Area [µV*s] | BL | Raw Amount | Component Name | Diesel ppm |
|---|---|---|---|---|---|---|
| 51 | 17.959 | 11878.00 | *BV | 0.0708 | | 0.0708 |
| 52 | 18.053 | 35743.92 | *VV | 0.2130 | | 0.2130 |
| 53 | 18.323 | 21989.50 | *VV | 0.1310 | | 0.1310 |
| 54 | 18.576 | 7931.01 | *VB | 0.0473 | | 0.0473 |
| 55 | 18.875 | 1934.80 | *BV | 0.0115 | | 0.0115 |
| 56 | 19.017 | 4339.48 | *VV | 0.0259 | | 0.0259 |
| 57 | 19.279 | 43931.20 | *VV | 0.2618 | | 0.2618 |
| 58 | 19.551 | 10213.92 | *VV | 0.0609 | | 0.0609 |
| 59 | 19.873 | 67783.81 | *VV | 0.4040 | | 0.4040 |
| 60 | 20.191 | 18655.57 | *VV | 0.1112 | | 0.1112 |
| 61 | 20.506 | 11682.17 | *VV | 0.0696 | | 0.0696 |
| 62 | 20.835 | 12794.89 | *VV | 0.0763 | | 0.0763 |
| 63 | 21.070 | 7279.17 | *VV | 0.0434 | | 0.0434 |
| 64 | 21.212 | 10390.64 | *VV | 0.0619 | | 0.0619 |
| 65 | 21.366 | 7085.41 | *VV | 0.0422 | | 0.0422 |
| 66 | 21.796 | 47217.50 | *VV | 0.2814 | | 0.2814 |
| 67 | 21.945 | 26259.06 | *VV | 0.1565 | | 0.1565 |
| 68 | 22.226 | 117516.97 | *VV | 0.7003 | | 0.7003 |
| 69 | 22.501 | 13385.29 | *VV | 0.0798 | | 0.0798 |
| 70 | 22.605 | 13296.39 | *VV | 0.0792 | | 0.0792 |
| 71 | 22.784 | 45883.44 | *VV | 0.2734 | | 0.2734 |
| 72 | 23.010 | 14565.16 | *VV | 0.0868 | | 0.0868 |
| 73 | 23.196 | 104441.67 | *VB | 0.6224 | | 0.6224 |
| 74 | 23.482 | 10222.00 | *BV | 0.0609 | | 0.0609 |
| 75 | 23.560 | 31047.76 | *VV | 0.1850 | | 0.1850 |
| 76 | 24.003 | 41106.97 | *VV | 0.2450 | | 0.2450 |
| 77 | 24.095 | 26795.70 | *VV | 0.1597 | | 0.1597 |
| 78 | 24.208 | 24127.59 | *VV | 0.1438 | | 0.1438 |
| 79 | 24.329 | 16850.60 | *VV | 0.1004 | | 0.1004 |
| 80 | 24.522 | 33924.59 | *VV | 0.2022 | | 0.2022 |
| 81 | 24.601 | 40950.36 | *VB | 0.2440 | | 0.2440 |
| 82 | 24.885 | 2572.00 | *BB | 0.0153 | | 0.0153 |
| | | 6330909.29 | | 33.5582 | | 33.5582 |

Missing Component Report

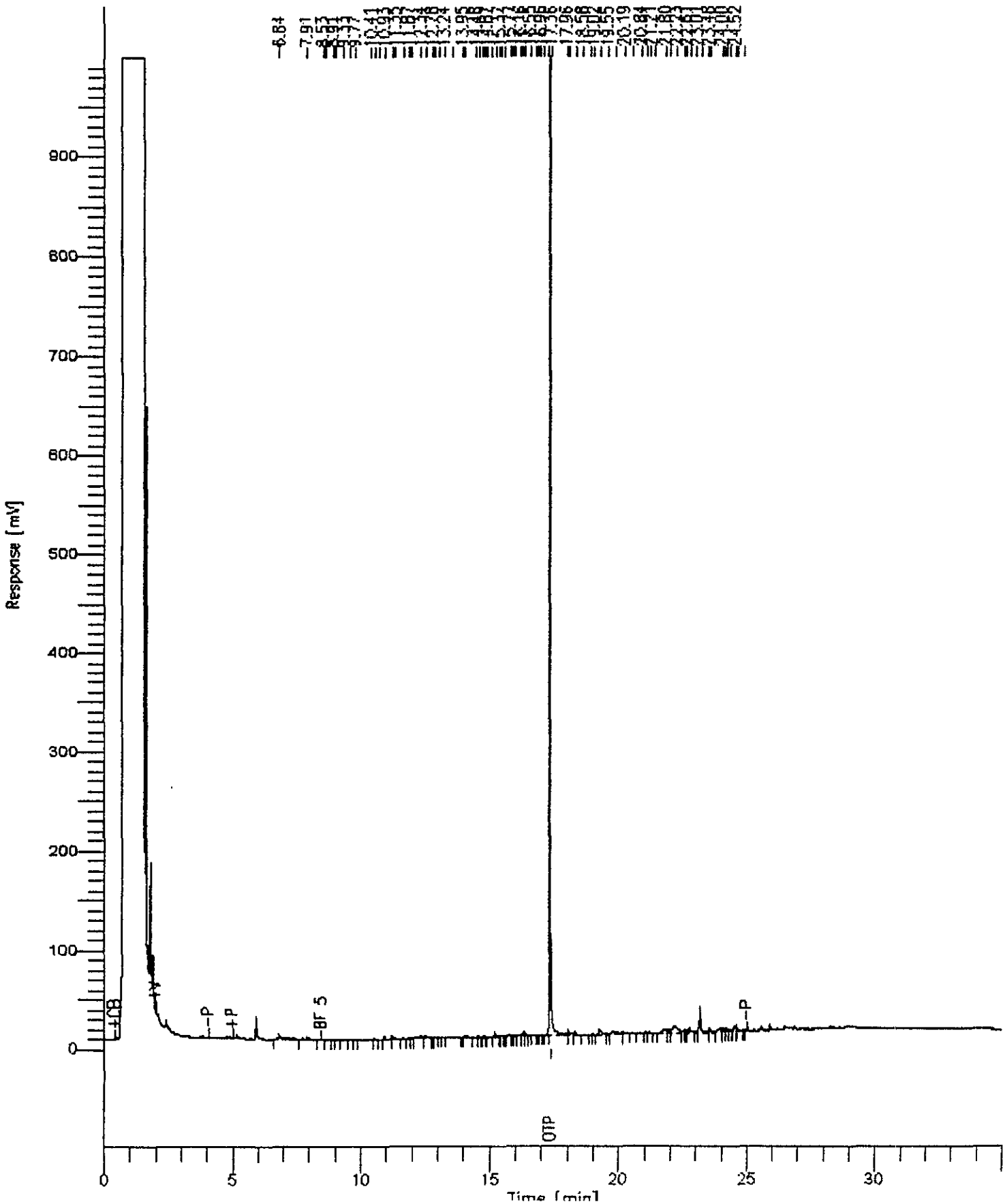
| Component | Expected Retention (Calibration File) |
|---|---|

All components were found

# diesel analysis

Sample Name : 4389/MW-L1081-85
FileName : D:\CLYCOM60\C411031.raw
Method : DEF860
Start Time : 0.00 min End Time : 35.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: 8Z231 Page 1 of 1
Date : 4/12/96 13:00
Time of Injection: 4/12/96 12:23
Low Point : 0.00 mV High Point : 1000.00 mV
Plot Scale: 1000.0 mV



# CHROMALAB, INC.

Environmental Services (SDB)

April 4, 1996

Dear ChromaLab customer:

ChromaLab is changing the way we report hydrocarbons using EPA method 8015. In the past, when we encountered hydrocarbons that do not match the pattern of our hydrocarbon standards, we reported them in this way:

Diesel N.D.:
*Note: Hydrocarbons in the Diesel range do not match our hydrocarbon standard profiles. Quantified using our diesel standard, amount is xx mg/Kg.*

We polled a group of our clients and checked with regulatory agencies. We thank them (that is, we thank you) for their time and their thoughts. ChromaLab will now be reporting the amount of hydrocarbon found in the range requested, and will comment if it doesn't match the pattern of the hydrocarbon requested, in this way:

Diesel XX mg/Kg
*Note: Hydrocarbon reported does not match the pattern of our Diesel standard.*

In addition, we will be providing more information to you about the hydrocarbon. If appropriate, we will note:

- *Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard.*
- *Hydrocarbon reported is in the late Diesel range, and does not match our Diesel standard.*
- *Hydrocarbon reported has characteristics of weathered/aged Diesel.*
- *Compounds reported are in the Diesel range. They do not have a pattern characteristic of hydrocarbons.*

We at ChromaLab hope this new format will give you better information for your projects. Please let us know if we can help further.

Sincerely,

Gary Cook

ChromaLab

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157