

### **RECEIVED**

11:15 am, Jun 07, 2010

Alameda County
Environmental Health

Satya Sinha Project Manger Marketing Business Unit Chevron Environmental Management Company 6001 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 842-9876 Fax (925) 842-8370 satyasinha@chevron.com

November 9, 2007

Mr. Jeff Carson Oro Loma Sanitary District 2600 Grant Avenue San Lorenzo, California 94580

Subject:

Former Chevron Service Station #9-0260

21995 Foothill Blvd Hayward, California Permit No. 007-03

Dear Mr. Carson:

During the current reporting period, the groundwater treatment and extraction system at the site referenced below operated in compliance with the conditions specified in the Oro Loma Sanitary District Wastewater Discharge Permit no. 007-03.

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Satya Sinha

Project Manager



5900 Hollis Street, Suite A, Emeryville, California 94608 Telephone: 5104200700 Facsimile: 5104209170 www.CRAworld.com

November 10, 2007

Mr. Jeff Carson Oro Loma Sanitary District 2600 Grant Avenue San Lorenzo, California 94580

Re:

Monthly Discharge Report - October 2007

Former Chevron Service Station #9-0260 21995 Foothill Blvd Hayward, California

Permit No. 007-03

Dear Mr. Carson:

Conestoga-Rovers & Associates (CRA) prepared this document on behalf of Chevron Environmental Management Company (Chevron), in accordance with the requirements of the wastewater discharge permit. During the current reporting period, the remediation system at the subject site operated in compliance with the conditions specified in the wastewater discharge permit.

If you have any questions regarding the contents of this document, please call Matthew Lundberg at (510) 420-3346 or Casey Sanders at (916) 677-3407.

Sincerely,

Conestoga-Rovers & Associates

Casey Sanders

Enclosure:

Monthly Discharge Report - October 2007

cc:

Mr. Satya Sinha, Environmental Management Company, 6001 Bollinger Canyon

Road, San Ramon, CA 94583



### **MONTHLY DISCHARGE REPORT - OCTOBER 2007**

### **Reporting Period Data Summary**

Compliance Sampling Frequency

Initial Totalizer Reading 44,300 gallons

Final Totalizer Reading 117,400 gallons

Discharged Volume 73,100 gallons

Average Discharge Flow Rate 1.81 gallons per minute

Maximum Discharge Flow Rate 2.30 gallons per minute

Discharge Violations or Exceedances None

Tables: 1 – Groundwater Extraction – System Analytical Data

2 - Groundwater Extraction - Operation and Mass Removal Data

Monthly

3 – Groundwater Extraction – Effluent Compliance

Attachments: A – Laboratory Analytical Reports

Conestoga-Rovers & Associates (CRA) prepared this document for use by our client and appropriate regulatory agencies. It is based partially on information available to CRA from outside sources and/or in the public domain, and partially on information supplied by CRA and its subcontractors. CRA makes no warranty or guarantee, expressed or implied, included or intended in this document, with respect to the accuracy of information obtained from these outside sources or the public domain, or any conclusions or recommendations based on information that was not independently verified by CRA. This document represents the best professional judgment of CRA. None of the work performed hereunder constitutes or shall be represented as a legal opinion of any kind or nature.

I:\Chevron\9-0260 Hayward\Remediation\O&M\Monthly Discharge Reports\October 07\October 07 Monthly Discharge Report.doc

Table 1: Groundwater Extraction - System Analytical Data - Former Chevron Station # 9-0260, 21995 Foothill Blvd, Hayward, CA

|                |                         | Influent                   |                         |                         | Midfluent 1                |                         |                         | Effluent                   |                         |      |
|----------------|-------------------------|----------------------------|-------------------------|-------------------------|----------------------------|-------------------------|-------------------------|----------------------------|-------------------------|------|
| Sample<br>Date | TPHg<br>Conc.<br>(µg/L) | Benzene<br>Conc.<br>(µg/L) | MTBE<br>Conc.<br>(μg/L) | TPHg<br>Conc.<br>(µg/L) | Benzene<br>Conc.<br>(µg/L) | MTBE<br>Conc.<br>(µg/L) | TPHg<br>Conc.<br>(µg/L) | Benzene<br>Conc.<br>(µg/L) | MTBE<br>Conc.<br>(μg/L) | рН   |
| 06/25/07       | 34,000                  | 2,000                      | 92                      | NA                      | NA                         | NA                      | < 50                    | < 0.5                      | < 0.5                   | 7.17 |
| 07/17/07       | 42,000                  | 1,700                      | 57                      | < 50                    | < 0.5                      | < 0.5                   | < 50                    | < 0.5                      | < 0.5                   | 7.1  |
| 07/26/07       | 57,000                  | 1,800                      | 51                      | < 50                    | < 0.5                      | < 0.5                   | < 50                    | < 0.5                      | < 0.5                   | NA   |
| 08/17/07       | 65,000                  | 2,800                      | 74                      | < 50                    | < 0.5                      | < 0.5                   | < 50                    | < 0.5                      | < 0.5                   | 7.2  |
| 08/22/07       | 44,000                  | 2,100                      | 56                      | < 50                    | < 0.5                      | < 0.5                   | < 50                    | < 0.5                      | < 0.5                   | 7.3  |
| 08/29/07       | 43,000                  | 2,000                      | 53                      | < 50                    | < 0.5                      | < 0.5                   | < 50                    | < 0.5                      | < 0.5                   | 6.89 |
| 09/26/07       | 42,000                  | 1,800                      | 33                      | < 50                    | < 0.5                      | < 0.5                   | < 50                    | < 0.5                      | < 0.5                   | 6.5  |
| 10/04/07       | 34,000                  | 1,500                      | 40                      | < 50                    | < 0.5                      | < 0.5                   | < 50                    | < 0.5                      | < 0.5                   | 7.92 |
| 10/08/07       | 45,000                  | 2,400                      | 45                      | 150                     | 4.1                        | < 0.5                   | < 50                    | < 0.5                      | < 0.5                   | 7.36 |
| 10/19/07       | 42,000                  | 2,300                      | 38                      | < 50                    | 1.2                        | < 0.5                   | < 50 .                  | < 0.5                      | < 0.5                   | 7.3  |
| 10/25/07       | NS                      | NS                         | NS                      | NS                      | NS                         | NS                      | NS                      | NS                         | NS                      | 7.3  |

#### Abbreviations & Notes:

Conc. = Concentration

μg/L = Micrograms per liter

NA = Not analyzed

NS = Not sampled

TPHg = Total purgeable hydrocarbons as gasoline, analyzed by EPA Method 8015B

pH analyzed onsite with multimeter

Benzene analyzed by EPA Method 8020

MTBE = Methyl tertiary butyl ether, analyzed by EPA Method 8260B

Table 2: Groundwater Extraction - Operation and Mass Removal Data - Former Chevron Station # 9-0260, 21995 Foothill Blvd, Hayward, CA

|                        |          |            |               | Period          |            |             | TPHg     |            |              | Benzene  |            |             | MTBE     |            |
|------------------------|----------|------------|---------------|-----------------|------------|-------------|----------|------------|--------------|----------|------------|-------------|----------|------------|
| Site                   | Hour     | Flow Meter | Period        | Operational     | Cumulative | TPHg        | Period   | Cumulative | Benzene      | Period   | Cumulative | MTBE        | Period   | Cumulative |
| Visit                  | Meter    | Reading    | Volume        | Flow Rate       | Volume     | Conc.       | Removal  | Removal    | Conc.        | Removal  | Removal    | Conc.       | Removal  | Removal    |
| (mm/dd/yy)             | (hours)  | (gal)      | (gal)         | (gpm)           | (gal)      | (μg/L)      | (pounds) | (pounds)   | (μg/L)       | (pounds) | (pounds)   | (μg/L)      | (pounds) | (pounds)   |
|                        |          | _          |               |                 |            |             |          |            |              |          |            |             |          |            |
| 06/25/07               | 0.0      | 211        | 0             | 0.00            | 0          | 34,000      | 0.000    | 0.000      | 2,000        | 0.000    | 0.000      | 92          | 0.000    | 0.000      |
| 07/16/07               | 0.0      | 211        | 0             | 0.00            | 0          | NS          | 0.000    | 0.000      | NS           | 0.000    | 0.000      | NS          | 0.000    | 0.000      |
| 07/17/07 a             | 2.0      | 7,524      | 7,313         | 4.51            | 7,313      | 42,000      | 2.563    | 2.563      | 1,700        | 0.104    | 0.104      | 57          | 0.003    | 0.003      |
| 07/26/07               | 5.0      | 9,422      | 1,898         | 10.54           | 9,211      | 57,000      | 0.903    | 3.466      | 1,800        | 0.029    | 0.132      | 51          | 0.001    | 0.004      |
| 08/03/07               | NA       | 10,947     | 1,525         | 0.13            | 10,736     | NS          | 0.725    | 4.191      | NS           | 0.023    | 0.155      | NS          | 0.001    | 0.005      |
| 08/16/07               | NA       | 12,100     | 1,153         | 0.06            | 11,889     | NS          | 0.625    | 4.816      | NS           | 0.027    | 0.182      | NS          | 0.001    | 0.006      |
| 08/17/07               | NA       | 15,500     | 3,400         | 2.36            | 15,289     | 65,000      | 1.844    | 6.660      | 2,800        | 0.079    | 0.262      | 74          | 0.002    | 0.008      |
| 08/22/07               | NA       | 18,700     | 3,200         | 0.44            | 18,489     | 44,000      | 1.175    | 7.835      | 2,100        | 0.056    | 0.318      | 56          | 0.001    | 0.009      |
| 08/24/07               | NA       | 22,800     | 4,100         | 1,42            | 22,589     | NS          | 1.505    | 9.341      | NS           | 0.072    | 0.389      | NS          | 0.002    | 0.011      |
| 08/29/07               | ŇΑ       | 24,810     | 2.010         | 0.28            | 24,599     | 43,000      | 0.721    | 10.062     | 2,000        | 0.034    | 0.423      | 53          | 0.001    | 0.012      |
| 09/18/07               | NA       | 26,700     | 1,890         | 0.07            | 26,489     | NS          | 0.662    | 10.724     | NS           | 0.028    | 0.451      | NS          | 0.001    | 0.013      |
| 09/21/07               | NA       | 29,900     | 3,200         | 0.74            | 29,689     | NS "        | 1.121    | 11.846     | NS           | 0.048    | 0.499      | NS          | 0.001    | 0.013      |
| 09/26/07               | NA       | 39,700     | 9,800         | 1.36            | 39,489     | 42,000      | 3.435    | 15.280     | 1,800        | 0.147    | 0.647      | 33          | 0.003    | 0.016      |
| 09/20/07               | NA.      | 44,300     | 4,600         | 3.19            | 44,089     | NS          | 1.612    | 16.892     | NS           | 0.069    | 0.716      | NS          | 0.001    | 0.017      |
| 10/04/07               | NA.      | 65,765     | 21,465        | 2.13            | 65,554     | 34,000      | 6.090    | 22.982     | 1,500        | 0.269    | 0.984      | 40          | 0.007    | 0.025      |
| 10/04/07               | NA<br>NA | 73,526     | 7,761         | 1.35            | 73,315     | 45,000      | 2.914    | 25.896     | 2,400        | 0.155    | 1.140      | 45          | 0.003    | 0.027      |
| 10/08/07               | NA<br>NA | 97,500     | 23,974        | 1.51            | 97,289     | 42,000      | 8.402    | 34.298     | 2,300        | 0.460    | 1.600      | 38          | 0.008    | 0.035      |
| 10/19/07<br>10/25/07 b | NA<br>NA | 117,400    | 19,900        | 2.30            | 117,189    | NS          | 6.974    | 41.273     | NS           | 0.382    | 1.982      | NS          | 0.006    | 0.041      |
| 10/25/07 0             | HA.      | 117,400    | .,,,,,        |                 | ,          |             |          |            |              |          |            |             |          |            |
|                        |          |            | ntal Extracte | d Volume (gal): | 117,189    | Pounds Remo | oved:    | 41.273     | Pounds Remo  | wed:     | 1.982      | Pounds Rem  | oved:    | 0.041      |
| ı                      |          |            |               | low Rate (gpm): | 1.89       | Gallons Rem | oved:    | 6.776      | Gallons Remo | oved:    | 0.270      | Gallons Rem | oved:    | 0.007      |

#### Abbreviations & Notes:

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tertiary butyl ether

Conc. = Concentration

μg/L = Microgram per liter

L = Liter

gal = Gallon

gpm = Gallon per minute

g = Gram

NS = not sampled

NA = not analyzed

a = hour meter was reset after running for 25 hours after installation of new programmable logic controller

b = System shut down for carbon changeout.

Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x (g/10<sup>6</sup>µg) x (pound/453.6g) x (3.785 L/gal)

When constituents are not detected, the concentration is assumed to be equal to half the detection limit in subsequent calculations.

Volume removal data based on the formula: mass (pounds) x (density) (cc/g) x 453.6 (g/pound) x (L/1000 cc) x (gal/3.785 L)

Period operational flow rate based on the formula: (cumulative volume (gal)) / (current hour meter reading - last hour meter reading (hr)) / (60 (min/hr))

Density inputs: TPHg = 0.73 g/cc, Benzene = 0.88 g/cc, TBA = 0.78 g/cc, MTBE = 0.74 g/cc

TPHg analyzed by EPA Method 8015B; BTEX analyzed by EPA method 8020, and MTBE analyzed by EPA Method 8260B

Table 3: Groundwater Extraction - Effluent Compliance - Former Chevron Station # 9-0260, 21995 Foothill Blvd, Hayward, CA

|                |                         |                            | Effluent                   |                                 |                            |                             |
|----------------|-------------------------|----------------------------|----------------------------|---------------------------------|----------------------------|-----------------------------|
| Sample<br>Date | TPHg<br>Conc.<br>(µg/L) | Benzene<br>Conc.<br>(µg/L) | Toluene<br>Conc.<br>(µg/L) | Ethlybenzene<br>Conc.<br>(µg/L) | Xylenes<br>Conc.<br>(μg/L) | pH                          |
| 06/25/07       | < 50                    | < 0.5                      | < 0.5                      | < 0.5                           | < 0.5                      | 7.17                        |
| 07/17/07       | < 50                    | < 0.5                      | < 0.5                      | < 0.5                           | <1.5                       | 7.10                        |
| 07/26/07       | < 50                    | < 0.5                      | < 0.5                      | < 0.5                           | <1.5                       | NA                          |
| 08/17/07       | < 50                    | < 0.5                      | < 0.5                      | < 0.5                           | <1.5                       | 7.20                        |
| 08/22/07       | < 50                    | < 0.5                      | < 0.5                      | < 0.5                           | <1.5                       | 7.30                        |
| 08/29/07       | < 50                    | < 0.5                      | < 0.5                      | < 0.5                           | <1.5                       | 6.89                        |
| 09/26/07       | < 50                    | < 0.5                      | < 0.5                      | < 0.5                           | <1.5                       | 6.50                        |
| 10/04/07       | < 50                    | < 0.5                      | < 0.5                      | < 0.5                           | <1.5                       | 7.92                        |
| 10/08/07       | < 50                    | < 0.5                      | < 0.5                      | < 0.5                           | <1.5                       | 7.36                        |
| 10/19/07       | < 50                    | < 0.5                      | < 0.5                      | < 0.5                           | <1.5                       | 7.30                        |
| Limits (ug/L)  | 15,000                  | ND                         | ND                         | ND                              | ND_                        | 5.5 <l<12.< td=""></l<12.<> |

#### Abbreviations & Notes:

Conc. = Concentration

μg/L = Micrograms per liter

NA = Not analyzed

pH analyzed onsite with multimeter

TPHg = Total purgeable hydrocarbons as gasoline, analyzed by EPA Method 8015B

BTEX analyzed by EPA Method 8020

MTBE = Methyl tertiary butyl ether, analyzed by EPA Method 8260B

### Attachment A

Laboratory Analytical Reports



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

#### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

### SAMPLE GROUP

The sample group for this submittal is 1059779. Samples arrived at the laboratory on Saturday, October 06, 2007. The PO# for this group is 0015014975 and the release number is SINHA.

| Client Description      | Lancaster Labs Number |  |  |
|-------------------------|-----------------------|--|--|
| INF-W-071004 Grab Water | 5177796               |  |  |
| MID-W-071004 Grab Water | 5177797               |  |  |
| EFF-W-071004 Grab Water | 5177798               |  |  |

ELECTRONIC CRA
COPY TO
ELECTRONIC CRA
COPY TO

Attn: Charlotte Evans

Attn: Matthew Lundberg



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Questions? Contact your Client Services Representative Angela M Miller at (717) 656-2300

Respectfully Submitted,

Susan M. Goshert

Devan M. Goshurt

Group Leader



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Lancaster Laboratories Sample No. WW 5177796

INF-W-071004 Grab Water Facility# 90260 CETE

**21995** Foothill-Hayward T0600100315 INF Collected:10/04/2007 13:35 by MJ

Submitted: 10/06/2007 09:50 Reported: 10/20/2007 at 00:29

Discard: 11/20/2007

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

HCINF I 5E w

|       |   |                                   |                                       | As Received        |       |          |
|-------|---|-----------------------------------|---------------------------------------|--------------------|-------|----------|
| CAT   |   |                                   | As Received                           | Method             |       | Dilution |
| No.   | Analysis Name   | CAS Number                        | Result                                | Detection<br>Limit | Units | Factor   |
| 01729 | TPH-GRO - Waters  |                                   |                                       |                    |       |          |
| 01730 | TPH-GRO - Waters  | n.a.                              | 34,000.                               | 2,500.             | ug/l  | 50       |
|       | The reported concentration of TF gasoline constituents eluting pr start time. | PH-GRO does not<br>rior to the C6 | : include MTBE or<br>(n-hexane) TPH-G | other<br>RO range  |       |          |
| 05879 | BTEX  |                                   |                                       |                    |       |          |
| 02161 | Benzene   | 71-43-2                           | 1,500.                                | 25.                | ug/l  | 50       |
| 02164 | Toluene   | 108-88-3                          | 5,900.                                | 25.                | ug/l  | 50       |
| 02166 | Ethylbenzene  | 100-41-4                          | 800.                                  | 25.                | ug/l  | 50       |
| 02171 | Total Xylenes   | 1330-20-7                         | 6,000.                                | 75.                | ug/l  | 50       |
| 02309 | MTBE by GC/MS (water)   |                                   |                                       |                    |       |          |
| 02010 | Methyl Tertiary Butyl Ether   | 1634-04-4                         | 40.                                   | 5.                 | ug/l  | 10       |

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.
The temperature of the sample(s) upon receipt at the lab was 10.6 - 10.9C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| Laboratorii ('broni | $\alpha \mid \alpha$ | _ |
|---------------------|----------------------|---|
| Laboratory Chroni   | -                    | _ |

| CAT   |                       | _                    |        | Analysis         |                               | Dilution |
|-------|-----------------------|----------------------|--------|------------------|-------------------------------|----------|
| No.   | Analysis Name         | Method               | Trial# | Date and Time    | Analyst                       | Factor   |
| 01729 | TPH-GRO - Waters      | TPH GRO SW-846 8015B | 1      | 10/10/2007 07:03 | K. Robert Caulfeild-<br>James | 50       |
| 05879 | BTEX                  | SW-846 8021B         | 1      | 10/10/2007 07:03 | K. Robert Caulfeild-<br>James | 50       |
| 02309 | MTBE by GC/MS (water) | SW-846 8260B         | 1      | 10/13/2007 08:10 | Michael A Ziegler             | 10       |
| 01146 | GC VOA Water Prep     | SW-846 5030B         | 1      | 10/10/2007 07:03 | K. Robert Caulfeild-<br>James | 50       |
| 01163 | GC/MS VOA Water Prep  | SW-846 5030B         | 1      | 10/13/2007 08:10 | Michael A Ziegler             | 10       |



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Lancaster Laboratories Sample No. WW 5177796

INF-W-071004 Grab Water
Facility# 90260 CETE
21995 Foothill-Hayward T0600100315 INF
Collected:10/04/2007 13:35 by MJ

Submitted: 10/06/2007 09:50 Reported: 10/20/2007 at 00:29

Discard: 11/20/2007

HCINF

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583



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Page 1 of 2

Lancaster Laboratories Sample No. 5177797

MID-W-071004 Grab Water Facility# 90260 CETE

21995 Foothill-Hayward T0600100315 MID Collected:10/04/2007 13:30

Submitted: 10/06/2007 09:50 Reported: 10/20/2007 at 00:29

Discard: 11/20/2007

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

HCMID I 5E w

| 1 31 # |   |            |             | As Received        |       |          |
|--------|---|------------|-------------|--------------------|-------|----------|
| CAT    |   |            | As Received | Method             |       | Dilution |
| No.    | Analysis Name   | CAS Number | Result      | Detection<br>Limit | Units | Factor   |
| 01729  | TPH-GRO - Waters  |            |             |                    |       |          |
| 01730  | TPH-GRO - Waters  | n.a.       | N.D.        | 50.                | ug/l  | 1        |
|        | The reported concentration of Tigasoline constituents eluting pastart time. |            |             |                    |       |          |
| 05879  | BTEX  |            |             |                    |       |          |
| 02161  | Benzene   | 71-43-2    | N.D.        | 0.5                | ug/l  | 1        |
| 02164  | Toluene   | 108-88-3   | N.D.        | 0.5                | ug/l  | 1        |
| 02166  | Ethylbenzene  | 100-41-4   | N.D.        | 0.5                | ug/l  | 1        |
| 02171  | Total Xylenes   | 1330-20-7  | N.D.        | 1.5                | ug/l  | 1        |
| 02309  | MTBE by GC/MS (water)   | F          |             |                    |       |          |
| 02010  | Methyl Tertiary Butyl Ether   | 1634-04-4  | N.D.        | 0.5                | ug/l  | 1        |

State of California Lab Certification No. 2116 Trip blank vials were not received by the laboratory for this sample group. The temperature of the sample(s) upon receipt at the lab was 10.6 - 10.9C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| T - 1      | ~1        |
|------------|-----------|
| Laboratory | Chronicle |
|            |           |

| CAT   |                       | _                    |        | Analysis         |                               | Dilution |
|-------|-----------------------|----------------------|--------|------------------|-------------------------------|----------|
| No.   | Analysis Name         | Method               | Trial# | Date and Time    | Analyst                       | Factor   |
| 01729 | TPH-GRO - Waters      | TPH GRO SW-846 8015B | 1      | 10/10/2007 06:21 | K. Robert Caulfeild-<br>James | 1        |
| 05879 | BTEX                  | SW-846 8021B         | 1      | 10/10/2007 06:21 | K. Robert Caulfeild-<br>James | 1        |
| 02309 | MTBE by GC/MS (water) | SW-846 8260B         | 1      | 10/15/2007 18:42 | Michael A Ziegler             | 1        |
| 01146 | GC VOA Water Prep     | SW-846 5030B         | 1      | 10/10/2007 06:21 | K. Robert Caulfeild-<br>James | 1        |
| 01163 | GC/MS VOA Water Prep  | SW-846 5030B         | 1      | 10/15/2007 18:42 | Michael A Ziegler             | 1        |



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Lancaster Laboratories Sample No. WW 5177797

MID-W-071004 Grab Water Facility# 90260 CETE 21995 Foothill-Hayward T0600100315 MID Collected:10/04/2007 13:30

Submitted: 10/06/2007 09:50 Reported: 10/20/2007 at 00:29 Discard: 11/20/2007

HCMID

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583



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Page 1 of 2

Lancaster Laboratories Sample No. WW 5177798

EFF-W-071004 Grab Water Facility# 90260 CETE

**21995** Foothill-Hayward T0600100315 EFF Collected:10/04/2007 13:25 by MJ

Submitted: 10/06/2007 09:50 Reported: 10/20/2007 at 00:29

Discard: 11/20/2007

Account Number: 10880

 ${\tt ChevronTexaco}$ 

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

NCEFF I 5E w

|       |   |                                    |                                   | As Received           |       |          |
|-------|---|------------------------------------|-----------------------------------|-----------------------|-------|----------|
| CAT   |   |                                    | As Received                       | Method                |       | Dilution |
| No.   | Analysis Name   | CAS Number                         | Result                            | Detection<br>Limit    | Units | Factor   |
| 01729 | TPH-GRO - Waters  |                                    |                                   |                       |       |          |
| 01730 | TPH-GRO - Waters  | n.a.                               | N.D.                              | 50.                   | ug/l  | 1        |
|       | The reported concentration of T<br>gasoline constituents eluting p<br>start time. | TPH-GRO does no<br>orior to the C6 | t include MTBE of (n-hexane) TPH- | or other<br>GRO range |       |          |
| 05879 | BTEX  |                                    |                                   |                       |       |          |
| 02161 | Benzene   | 71-43-2                            | N.D.                              | 0.5                   | ug/l  | 1        |
| 02164 | Toluene   | 108-88-3                           | N.D.                              | 0.5                   | ug/l  | 1        |
| 02166 | Ethylbenzene  | 100-41-4                           | N.D.                              | 0.5                   | ug/l  | 1        |
| 02171 | Total Xylenes   | 1330-20-7                          | N.D.                              | 1.5                   | ug/l  | 1        |
| 02309 | MTBE by GC/MS (water)   |                                    |                                   |                       |       |          |
| 02010 | Methyl Tertiary Butyl Ether   | 1634-04-4                          | N.D.                              | 0.5                   | ug/l  | 1        |

State of California Lab Certification No. 2116 Trip blank vials were not received by the laboratory for this sample group. The temperature of the sample(s) upon receipt at the lab was 10.6 - 10.9C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| Laboratory Chronicle | T.a | hora | tory | Chro | micle | _ |
|----------------------|-----|------|------|------|-------|---|
|----------------------|-----|------|------|------|-------|---|

| CAT   |                       |                      |        | Analysis         |                               | Dilution |
|-------|-----------------------|----------------------|--------|------------------|-------------------------------|----------|
| No.   | Analysis Name         | Method               | Trial# | Date and Time    | Analyst                       | Factor   |
| 01729 | TPH-GRO - Waters      | TPH GRO SW-846 8015B | 1      | 10/10/2007 06:42 | K. Robert Caulfeild-<br>James | 1        |
| 05879 | BTEX                  | SW-846 8021B         | 1      | 10/10/2007 06:42 | K. Robert Caulfeild-<br>James | 1        |
| 02309 | MTBE by GC/MS (water) | SW-846 8260B         | 1      | 10/15/2007 19:05 | Michael A Ziegler             | 1        |
| 01146 | GC VOA Water Prep     | SW-846 5030B         | 1      | 10/10/2007 06:42 | K. Robert Caulfeild-<br>James | 1        |
| 01163 | GC/MS VOA Water Prep  | SW-846 5030B         | 1      | 10/15/2007 19:05 | Michael A Ziegler             | 1        |



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Lancaster Laboratories Sample No. WW 5177798

EFF-W-071004 Grab Water Facility# 90260 CETE 21995 Foothill-Hayward T0600100315 EFF Collected:10/04/2007 13:25

Submitted: 10/06/2007 09:50 Reported: 10/20/2007 at 00:29 Discard: 11/20/2007

NCEFF

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583



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### Quality Control Summary

Client Name: ChevronTexaco Reported: 10/20/07 at 12:29 AM Group Number: 1059779

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

| Analysis Name  | Blank<br><u>Result</u> | Blank<br><u>MDL</u> | Report<br><u>Units</u> | LCS<br><u>%REC</u> | LCSD<br>%REC | LCS/LCSD<br><u>Limits</u> | RPD | RPD Max |
|--|------------------------|---------------------|------------------------|--------------------|--------------|---------------------------|-----|---------|
| Batch number: 07283A54A                                | Sample ni              | mber(s):            | 5177796-51             | 77798              |              |                           |     |         |
| TPH-GRO - Waters                                       | N.D.                   | 50.                 | ug/l                   | 122                | 122          | 75-135                    | 0   | 30      |
| Benzene  | N.D.                   | 0.5                 | ug/l                   | 102                | 100          | 86-119                    | 1   | 30      |
| Toluene  | N.D.                   | 0.5                 | ug/l                   | 110                | 109          | 82-119                    | 1   | 30      |
| Ethylbenzene   | N.D.                   | 0.5                 | ug/l                   | 105                | 106          | 81-119                    | 0   | 30      |
| Total Xylenes  | N.D.                   | 1.5                 | ug/l                   | 107                | 106          | 82-120                    | 0   | 30      |
| Batch number: D072883AA                                | Sample nu              | umber(s):           | 5177797-51             | .77798             |              |                           |     |         |
| Methyl Tertiary Butyl Ether                            | N.D.                   | 0.5                 | ug/l                   | 104                |              | 73-119                    |     |         |
| Batch number: Z072854AA<br>Methyl Tertiary Butyl Ether | Sample nu              | mber(s):<br>0.5     | 5177796<br>ug/l        | 104                |              | 73-119                    |     |         |

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name  |                                       | MSD<br><u>%REC</u> | MS/MSD<br>Limits   | RPD          | RPD<br><u>MAX</u> | BKG<br>Conc | DUP<br>Conc | DUP<br><u>RPD</u> | Dup RPD<br><u>Max</u> |
|--|---------------------------------------|--------------------|--|--------------|-------------------|-------------|-------------|-------------------|-----------------------|
| Batch number: 07283A54A<br>TPH-GRO - Waters<br>Benzene<br>Toluene<br>Ethylbenzene<br>Total Xylenes | Sample nu<br>125<br>104<br>113<br>111 | mber(s)            | : 5177796-<br>63-154<br>78-131<br>78-129<br>75-133<br>84-131 | 517779       | 3 UNSPK           | : 5177797,  | 5177798     |                   |                       |
| Batch number: D072883AA<br>Methyl Tertiary Butyl Ether   | *                                     | umber(s)<br>104    |  | -517779<br>1 | 8 UNSPK<br>30     | t: P177129  |             |                   |                       |
| Batch number: Z072854AA<br>Methyl Tertiary Butyl Ether   |                                       | ımber(s)<br>105    | : 5177796<br>69-127  | UNSPK:<br>1  | P17799<br>30      | 9           |             |                   |                       |

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO - Waters Batch number: 07283A54A

Trifluorotoluene-F

Trifluorotoluene-P

#### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



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### Quality Control Summary

|             | me: ChevronTexaco<br>10/20/07 at 12:29 AN |                       | roup Number: 1059779 |                      |
|-------------|---|-----------------------|----------------------|----------------------|
| Reported.   | 10,20,0, 40 12.23 11                      |                       | ality Control        |                      |
| 5177796     | 88  | 95                    | _                    |                      |
| 5177797     | 78  | 97                    |                      |                      |
| 5177798     | 88  | 95                    |                      |                      |
| Blank       | 85  | 95                    |                      |                      |
| LCS         | 100                                       | 96                    |                      |                      |
| LCSD        | 97  | 95                    |                      |                      |
| MS          | 100                                       | 94                    |                      |                      |
| Limits:     | 63-135                                    | 69-129                |                      |                      |
|             | me: MTBE by GC/MS (water) r: D072883AA    |                       |                      |                      |
| Battn numbe | Dibromofluoromethane                      | 1,2-Dichloroethane-d4 | Toluene-d8           | 4-Bromofluorobenzene |
| 5177797     | 104                                       | 100                   | 102                  | 101                  |
| 5177798     | 104                                       | 97                    | 100                  | 98                   |
| Blank       | 105                                       | 100                   | 104                  | 101                  |
| LCS         | 103                                       | 98                    | 103                  | 103                  |
| MS          | 108                                       | 101                   | 105                  | 104                  |
| MSD         | 105                                       | 104                   | 104                  | 103                  |
| Limits:     | 80-116                                    | 77-113                | 80-113               | 78-113               |
|             | me: MTBE by GC/MS (water)                 |                       |                      |                      |
| Bacch hambe | Dibromofluoromethane                      | 1,2-Dichloroethane-d4 | Toluene-d8           | 4-Bromofluorobenzene |
| 5177796     | 88  | 91                    | 100                  | 94                   |
| Blank       | 89  | 92                    | 101                  | 96                   |
| LCS         | 88  | 93                    | 100                  | 98                   |
| MS          | 89  | 94                    | 100                  | 96                   |
| MSD         | 91  | 94                    | 100                  | 96                   |
| Limits:     | 80-116                                    | 77-113                | 80-113               | 78-113               |

\*- Outside of specification

(2) The unspiked result was more than four times the spike added.

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

## Chevron California Rajion Analysis Request/Chain of Catody

| Lar | ncas  | ter    |   |
|-----|-------|--------|---|
| Lat | oorai | tories | 5 |

For Lancaster Laboratories use only

Acct. #: 10880 Group # 1059779 Sample #: 5177796 - 98

| W; Labora                    | tor ics   | ,                                      |                 |                |             |          |   |           |              |           | -            |              |          |                     | Α              | naly                                   | ses  | Rec                       | ques          | sted     |      |                  |                  | SUK#:                           |                               |               |
|------------------------------|---|--|-----------------|----------------|-------------|----------|---|-----------|--------------|-----------|--------------|--------------|----------|---------------------|----------------|--|--|---------------------------|---------------|----------|------|------------------|------------------|---------------------------------|-------------------------------|---------------|
| Facility #: 9-0260 M1I       |   | _                                      |                 |                |             |          |   |           |              |           |              |              |          |                     | F              | res                                    | erva   | tion                      | Coc           | des      | -    |                  | 1                |                                 | tive Code                     |               |
| Site Address: <u>21995 F</u> |   |  |                 | fornia         |             |          |   |           |              |           |              |              |          |                     |                |  | 7)   |                           |               |          | _    |                  | □ ı              | N = HNO3                        | T = Thiosa B = NaOh O = Other | i [           |
| Chevron PM: Satya Si         |   |  |                 |                |             |          |   | tes       |              |           | iers         |              |          |                     |                | 200)                                   | s, Si, Th, Z)                                    |                           |               |          |      |                  | 1_               | Must meet lov                   | vest detection                | on limits     |
| Consultant/Office: CR/       |   |  | te A, <u>Er</u> | neryvi         | lie, CA     | 9460     | <u>8</u>  |           |              |           | Containers   |              |          |                     |                | 13 Proirity Pollutant Metals (EPA 200) | (An, Ar, Be, Ca, Ch, Cu, Pb, M. Ni, Se,          | 0.1)                      |               |          | 1    |                  | -   ,            | possible for 8<br>Comments / Re | -                             | ilias         |
|                              | Consultant Prj. Mgr.: <u>Charlotte Evans</u> Consultant Phone #: <u>510-420-3351</u> Fax #: <u>510-420-9170</u> |  |                 |                |             |          | 1   | ŀ         | of CC        |           |              |              |          | Metal               | Pb, N          | Λ 42                                   |  | li                        |               |          |      | Email results to | <b>)</b> :       |                                 |                               |               |
|                              |   |  |                 |                |             |          |   |           |              |           |              |              | 2        | 335.4               |                | utant                                  |  | s (EP                     | 909           |          |      |                  |                  | nlundberg@cr<br>cevans@crawc    |                               | and           |
| Sampler: Wast                | اهل ع   | لممكند                                 |                 |                |             |          | <del>.</del>  |           |              | Composite | Total Number | втех by 8020 | by 8015  | Cyanide (EPA 335.4) | pH (EPA 150.1) | P P                                    | e, Ca  | Fotal Phenols (EPA 420.1) | MTBE by 8260B |          |      |                  | 1 -              | email edf to:                   |                               |               |
| Service Order #:<br>Field    | <del></del>   | Repeat                                 | _ ∐ No<br>Top   | n SAR          | :           |          | Time  | New       | Grab         | du        | tal          | ξ            | тРНд ъ   | nide                | (EPA           | Proiri                                 | Ar, B  | tal Pi                    | rBE           |          | Ì    |                  | 1 9              | chevronedf@c                    | aworld.com                    | <u>n</u>      |
| Point Name                   | Matrix  | Sample                                 | Depth           | Year           | Month       | Day      | Collected   | Field Pt. | +            | _         | _            | _            | _        | ŏ                   | 표              | 5                                      | (An  | To                        | _             |          |      | $\dashv$         | +                |                                 |                               |               |
| INF                          | W   |  |                 |                | 110         |          |   |           | <u>x</u>     |           | 6            |              | X        |                     |                | <b>_</b>                               | _  |                           | X             |          |      |                  |                  | VOAs with H                     |                               |               |
| MID                          | W   |  |                 |                | 110         |          |   | No        | X            |           | 6            |              | X        |                     | -              |  | _  |                           | X             |          |      |                  | - <del> </del> - | VOAS with H                     |                               |               |
| EFF                          | W   |  | NA              | 07             | 1 10 7      | K        | 125   | No        | X            | -         | 6            | Х            | X        | _                   |                |  |  |                           | X             |          |      | -                | +                | VOAs with l                     | 1CI                           | _             |
|                              |   |  |                 | • ,            |             |          |   |           |              |           |              |              |          |                     |                |  | _  |                           |               |          |      |                  |                  |                                 | . :                           |               |
|                              | +   |  | <del> </del>    | <del>i -</del> |             | <u> </u> |   |           | 1            |           |              |              |          |                     |                |  |  |                           |               |          |      |                  |                  |                                 |                               |               |
|                              |   |  |                 |                |             |          |   |           | _            | ļ         |              | _            | _        | _                   | ļ              | -                                      | _  |                           | _             | -        |      | $\dashv$         | +                | <u> </u>                        |                               |               |
|                              |   |  | ļ —             | ļ              |             |          |   |           | ╁            | -         | <u> </u>     | _            |          |                     | _              |  | <del>                                     </del> |                           | -             |          |      | $\dashv$         | $\dashv$         |                                 |                               | · · · · · · · |
|                              |   |  |                 |                |             |          |   |           |              |           |              |              |          |                     |                |  |  |                           |               |          |      |                  |                  |                                 |                               | ;             |
|                              |   | -                                      | †               |                |             |          |   |           |              |           |              |              |          |                     |                |  |  |                           |               | L,       |      | 1                | _                |                                 |                               |               |
|                              |   |  |                 |                |             |          | <u> </u>  | مل        | L            |           | <u></u>      | <u></u>      |          |                     |                | Ļ                                      |  | <u> </u>                  |               | <u> </u> |      |                  |                  |                                 | Date,                         | Time          |
| Turnaround Time              | Request   | ed (TAT) (                             | please o        | ircle)         |             |          | Delity uishe  | d bil     | <b>5</b> (5) | · .       |              |              |          | 10                  | Date           | 1                                      | Tim 4:3  | e<br>10                   | Rece          | eived    | by:  |                  |                  |                                 | 10/4/21                       | 4:50          |
| 24 hour                      | 72 H  |  | <br>48 ho       |                |             | 1        | Relinquishe   |           | -            |           |              |              |          | _                   | Date           | -4-                                    | Tim  | _                         |               | eived    |      |                  |                  |                                 | Date                          | Time          |
| STD                          | 4 da  | ty                                     | 5 day           |                |             |          | Relinquishe   | 4411      |              |           |              |              |          | +                   | Date           | +                                      | Tim  | e                         | Rece          | eived    | by:  |                  |                  |                                 | Date                          | Time          |
| Data Package Optio           | n <b>s</b> (please  | circle if re                           | quired)         |                |             | +        | - Coniquiation                                      | u оу.     |              | _         | ·<br>        |              |          |                     |                |  |  |                           | _             |          |      |                  |                  |                                 |                               |               |
| OC Summary                   | Type I – F  | uli<br>eliverable n                    |                 | ∍d             |             |          | Relinquished by Commercial Carrier: UPS FedEx Other |           |              |           |              | _            |          |                     |                |  |  |                           | Received by:  |          | Home | Date             | Time<br>9.570    |                                 |                               |               |
| WIP (RWQCB)                  |   | ······································ |                 |                | <del></del> | 7        | Temperatur  |           | eceip        |           |              | 90           | <u> </u> |                     |                |  |  | 1                         |               |          |      | Intac            | 1?               | Yes (No)                        |                               |               |
| Disk                         |   |  |                 |                |             |          |   |           |              |           |              |              | _        |                     |                |  | _  | <u> </u>                  |               | _        |      |                  |                  |                                 |                               |               |

## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| N.D.     | none detected         | BMQL         | Below Minimum Quantitation Level               |
|----------|-----------------------|--------------|--|
| TNTC     | Too Numerous To Count | MPN          | Most Probable Number                           |
| IU       | International Units   | CP Units     | cobalt-chloroplatinate units                   |
| umhos/cm | micromhos/cm          | NTU          | nephelometric turbidity units                  |
| С        | degrees Celsius       | · <b>F</b>   | degrees Fahrenheit                             |
| Cal      | (diet) calories       | lb.          | pound(s)                                       |
| meq      | milliequivalents      | kg           | kilogram(s)                                    |
| g        | gram(s)               | mg           | milligram(s)                                   |
| ug       | microgram(s)          | I            | liter(s)                                       |
| ml       | milliliter(s)         | ul           | microliter(s)                                  |
| m3       | cubic meter(s)        | fib >5 um/ml | fibers greater than 5 microns in length per ml |

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than

ppm parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**Inorganic Qualifiers** 

ppb parts per billion

**Dry weight**Besults printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

| A<br>B<br>C<br>D<br>E | TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quatitated on a diluted sample Concentration exceeds the calibration range of the instrument | B<br>E<br>M<br>N<br>S | Value is <crdl, (msa)="" additions="" amount="" but="" calculation<="" control="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" spike="" standard="" th="" to="" used="" within="" ≥idl=""></crdl,> |
|-----------------------|---|-----------------------|---|
| J                     | Estimated value   | U                     | Compound was not detected   |
| N                     | Presumptive evidence of a compound (TICs only)  | W                     | Post digestion spike out of control limits  |
| P                     | Concentration difference between primary and  | *                     | Duplicate analysis not within control limits  |
|                       | confirmation columns >25%   | +                     | Correlation coefficient for MSA < 0.995   |

U Compound was not detected

X.Y.Z Defined in case narrative

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



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### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

### **SAMPLE GROUP**

The sample group for this submittal is 1060188. Samples arrived at the laboratory on Wednesday, October 10, 2007. The PO# for this group is 0015014975 and the release number is SINHA.

| Client Description      | Lancaster Labs Number |
|-------------------------|-----------------------|
| INF-W-071008 Grab Water | 5180219               |
| MID-W-071008 Grab Water | 5180220               |
| EFF-W-071008 Grab Water | 5180221               |

ELECTRONIC CRA
COPY TO
ELECTRONIC CRA
COPY TO

Attn: Charlotte Evans

Attn: Matthew Lundberg



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Questions? Contact your Client Services Representative Angela M Miller at (717) 656-2300

Respectfully Submitted,

Christine Dulaney Senior Specialist



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Page 1 of 1

Lancaster Laboratories Sample No. WW 5180219

INF-W-071008 Grab Water Facility# 90260 CETE

**21995 Foothill-Hayward T0600100315 INF** Collected:10/08/2007 11:55 by MJ

COTTecced: 10/08/2007 11:55

Submitted: 10/10/2007 09:30 Reported: 10/22/2007 at 16:40

Discard: 11/22/2007

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

INFFB I 5E w

|       |   |            |             | As Received        |       |          |
|-------|---|------------|-------------|--------------------|-------|----------|
| CAT   |   |            | As Received | Method             |       | Dilution |
| No.   | Analysis Name   | CAS Number | Result      | Detection<br>Limit | Units | Factor   |
| 01729 | TPH-GRO - Waters  |            |             |                    |       |          |
| 01730 | TPH-GRO - Waters  | n.a.       | 45,000.     | 5,000.             | ug/l  | 100      |
|       | The reported concentration of Tigasoline constituents eluting postart time. |            |             |                    |       |          |
| 05879 | BTEX  |            |             |                    |       |          |
| 02161 | Benzene   | 71-43-2    | 2,400.      | 50.                | ug/l  | 100      |
| 02164 | Toluene   | 108-88-3   | 8,500.      | 50.                | ug/l  | 100      |
| 02166 | Ethylbenzene  | 100-41-4   | 920.        | 50.                | ug/l  | 100      |
| 02171 | Total Xylenes   | 1330-20-7  | 6,400.      | 150.               | ug/l  | 100      |
| 02309 | MTBE by GC/MS (water)   |            |             |                    |       |          |
| 02010 | Methyl Tertiary Butyl Ether   | 1634-04-4  | 45.         | 5.                 | ug/l  | 10       |

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

| CAT   |                       | · · · · · · · · · · · · · · · · · · · |        | Analysis         |                               | Dilution |
|-------|-----------------------|---------------------------------------|--------|------------------|-------------------------------|----------|
| No.   | Analysis Name         | Method                                | Trial# | Date and Time    | Analyst                       | Factor   |
| 01729 | TPH-GRO - Waters      | TPH GRO SW-846 8015B mod              | 1      | 10/11/2007 05:12 | K. Robert Caulfeild-<br>James | 100      |
| 05879 | BTEX                  | SW-846 8020A                          | 1      | 10/11/2007 05:12 | K. Robert Caulfeild-<br>James | 100      |
| 02309 | MTBE by GC/MS (water) | SW-846 8260B                          | 1      | 10/17/2007 16:12 | Ginelle L Feister             | 10       |
| 01146 | GC VOA Water Prep     | SW-846 5030B                          | . 1    | 10/11/2007 05:12 | K. Robert Caulfeild-<br>James | 100      |
| 01163 | GC/MS VOA Water Prep  | SW-846 5030B                          | 1      | 10/17/2007 16:12 | Ginelle L Feister             | 10       |



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Lancaster Laboratories Sample No. WW 5180220

MID-W-071008 Grab Water Facility# 90260 CETE

21995 Foothill-Hayward T0600100315 MID

Collected:10/08/2007 11:50

Account Number: 10880

ChevronTexaco

Submitted: 10/10/2007 09:30 Reported: 10/22/2007 at 16:40 6001 Bollinger Canyon Rd L4310

Discard: 11/22/2007 San Ramon CA 94583

MIDFB I 5E w

| T PR M |   |            |             | As Received        |       |          |
|--------|---|------------|-------------|--------------------|-------|----------|
| CAT    |   |            | As Received | Method             |       | Dilution |
| No.    | Analysis Name   | CAS Number | Result      | Detection<br>Limit | Units | Factor   |
| 01729  | TPH-GRO - Waters  |            |             |                    |       |          |
| 01730  | TPH-GRO - Waters  | n.a.       | 150.        | 50.                | ug/l  | 1        |
|        | The reported concentration of T gasoline constituents eluting p start time. |            |             |                    |       |          |
| 05879  | BTEX  |            |             |                    |       |          |
| 02161  | Benzene   | 71-43-2    | 4.1         | 0.5                | ug/l  | 1        |
| 02164  | Toluene   | 108-88-3   | 23.         | 0,5                | ug/l  | 1        |
| 02166  | Ethylbenzene  | 100-41-4   | 3.0         | 0.5                | ug/l  | 1        |
| 02171  | Total Xylenes   | 1330-20-7  | 25.         | 1.5                | ug/l  | 1        |
| 02309  | MTBE by GC/MS (water)   |            |             |                    |       |          |
| 02010  | Methyl Tertiary Butyl Ether   | 1634-04-4  | N.D.        | 0.5                | ug/l  | 1        |

State of California Lab Certification No. 2116 Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| Laboratory | Chronicle |
|------------|-----------|
| Habutatury | CHILDHICE |

| CAT   |                       | and the second s | Analysis |                  |                               |        |  |  |  |  |  |  |
|-------|-----------------------|--|----------|------------------|-------------------------------|--------|--|--|--|--|--|--|
| No.   | Analysis Name         | Method   | Trial#   | Date and Time    | Analyst                       | Factor |  |  |  |  |  |  |
| 01729 | TPH-GRO - Waters      | TPH GRO SW-846 8015B mod   | 1        | 10/11/2007 05:33 | K. Robert Caulfeild-<br>James | 1      |  |  |  |  |  |  |
| 05879 | BTEX                  | SW-846 8020A   | 1        | 10/11/2007 05:33 | K. Robert Caulfeild-<br>James | 1      |  |  |  |  |  |  |
| 02309 | MTBE by GC/MS (water) | SW-846 8260B   | 1        | 10/17/2007 16:35 | Ginelle L Feister             | 1      |  |  |  |  |  |  |
| 01146 | GC VOA Water Prep     | SW-846 5030B   | 1        | 10/11/2007 05:33 | K. Robert Caulfeild-<br>James | 1      |  |  |  |  |  |  |
| 01163 | GC/MS VOA Water Prep  | SW-846 5030B   | , 1      | 10/17/2007 16:35 | Ginelle L Feister             | 1      |  |  |  |  |  |  |
|       |                       |  |          |                  |                               |        |  |  |  |  |  |  |



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Lancaster Laboratories Sample No. WW 5180221

EFF-W-071008 Grab Water Facility# 90260 CETE

21995 Foothill-Hayward T0600100315 EFF Collected:10/08/2007 11:45

Submitted: 10/10/2007 09:30 Reported: 10/22/2007 at 16:40 Discard: 11/22/2007

GC/MS VOA Water Prep

01163

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

EFFFB I 5E w

|       |  |                                   |                                     | As Received        |       |          |
|-------|--|-----------------------------------|-------------------------------------|--------------------|-------|----------|
| CAT   |  |                                   | As Received                         | Method             |       | Dilution |
| No.   | Analysis Name  | CAS Number                        | Result                              | Detection<br>Limit | Units | Factor   |
| 01729 | TPH-GRO - Waters   |                                   |                                     |                    |       |          |
| 01730 | TPH-GRO - Waters   | n.a.                              | N.D.                                | 50.                | ug/l  | 1        |
|       | The reported concentration of The gasoline constituents eluting prostart time. | PH-GRO does not<br>rior to the C6 | include MTBE or<br>(n-hexane) TPH-G | other<br>GRO range |       |          |
| 05879 | BTEX   |                                   |                                     |                    |       |          |
| 02161 | Benzene  | 71-43-2                           | N.D.                                | 0.5                | ug/l  | 1        |
| 02164 | Toluene  | 108-88-3                          | N.D.                                | 0.5                | ug/l  | 1        |
| 02166 | Ethylbenzene   | 100-41-4                          | N.D.                                | 0.5                | ug/l  | 1        |
| 02171 | Total Xylenes  | 1330-20-7                         | N.D.                                | 1.5                | ug/l  | 1        |
| 02309 | MTBE by GC/MS (water)  |                                   |                                     |                    |       |          |
| 02010 | Methyl Tertiary Butyl Ether  | 1634-04-4                         | N.D.                                | 0.5                | ug/l  | 1        |

State of California Lab Certification No. 2116 Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

SW-846 5030B

|       |                       | Laboratory               | Chro   | nicle            |                               |          |
|-------|-----------------------|--------------------------|--------|------------------|-------------------------------|----------|
| CAT   |                       | -                        |        | Analysis         |                               | Dilution |
| No.   | Analysis Name         | Method                   | Trial# | Date and Time    | Analyst                       | Factor   |
| 01729 | TPH-GRO - Waters      | TPH GRO SW-846 8015B mod | 1      | 10/11/2007 05:54 | K. Robert Caulfeild-<br>James | 1        |
| 05879 | BTEX                  | SW-846 8020A             | 1      | 10/11/2007 05:54 | K. Robert Caulfeild-<br>James | 1        |
| 02309 | MTBE by GC/MS (water) | SW-846 8260B             | 1      | 10/17/2007 16:58 | Ginelle L Feister             | 1        |
| 01146 | GC VOA Water Prep     | SW-846 5030B             | 1      | 10/11/2007 05:54 | K. Robert Caulfeild-<br>James | 1        |
| 01163 | GC/MS VOA Water Prep  | SW-846 5030B             | 1      | 10/17/2007 16:58 | Ginelle L Feister             | 1        |



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### Quality Control Summary

Client Name: ChevronTexaco

Reported: 10/22/07 at 04:40 PM

Group Number: 1060188

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the

method.

### Laboratory Compliance Quality Control

| Analysis Name  | Blank<br><u>Result</u> | Blank<br><u>MDL</u> | Report<br><u>Units</u> | LCS<br>%REC  | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD | RPD Max |
|--|------------------------|---------------------|------------------------|--------------|--------------|--------------------|-----|---------|
| Batch number: 07284A54A                                | Sample n               | umber(s):           | 5180219-51             | 80221        |              |                    |     |         |
| TPH-GRO - Waters                                       | N.D.                   | 50.                 | ug/l                   | 118          | 118          | 75-135             | 0   | 30      |
| Benzene  | N.D.                   | 0.5                 | ug/l                   | 91           | 96           | 86-119             | 5   | 30      |
| Toluene  | N.D.                   | 0.5                 | ug/l                   | 101          | 106          | 82-119             | 5   | 30      |
| Ethylbenzene   | N.D.                   | 0.5                 | ug/l                   | 96           | 100          | 81-119             | 4   | 30      |
| Total Xylenes  | N.D.                   | 1.5                 | ug/l                   | 97           | 102          | 82-120             | 4   | 30      |
| Batch number: D072901AA<br>Methyl Tertiary Butyl Ether | Sample n               | umber(s):<br>0.5    | 5180219-51<br>ug/l     | .80221<br>90 |              | 73-119             |     |         |

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name               | MS<br>%REC | MSD<br>%REC | MS/MSD<br>Limits | RPD     | RPD<br><u>MAX</u> | BKG<br>Conc | DUP<br>Conc | DUP<br><u>RPD</u> | Dup RPD |
|-----------------------------|------------|-------------|------------------|---------|-------------------|-------------|-------------|-------------------|---------|
| Analysis Name               | SKEC       | SKEC        | TITHIT CB        | KED     | MAA               | COIIC       | COIIC       | KFD               | Max     |
| Batch number: 07284A54A     | Sample     | number(s    | ): 5180219       | 9-51802 | 21 UNSF           | K: 5180220  | , 5180221   |                   |         |
| TPH-GRO - Waters            | 128        |             | 63-154           |         |                   |             |             |                   |         |
| Benzene                     | 94         |             | 78-131           |         |                   |             |             |                   |         |
| Toluene                     | 98         |             | 78-129           |         |                   |             |             |                   |         |
| Ethylbenzene                | 103        |             | 75-133           |         |                   |             |             |                   |         |
| Total Xylenes               | 103        |             | 84-131           |         |                   |             |             |                   |         |
|                             |            |             | \ =======        |         | 04                | D10000      |             |                   |         |
| Batch number: D072901AA     | Sample     | number(s    | • • • • • •      | 3-51802 | ZI UNSE           | K: P182007  |             |                   |         |
| Methyl Tertiary Butyl Ether | 101        | 101         | 69-127           | 0       | 30                |             |             |                   |         |

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO - Waters Batch number: 07284A54A Trifluorotoluene-F

|         | Trifluorotoluene-F | Trifluorotoluene-P |  |  |  |  |  |  |
|---------|--------------------|--------------------|--|--|--|--|--|--|
| 5180219 | 93                 | 95                 |  |  |  |  |  |  |
| 5180220 | 88                 | 95                 |  |  |  |  |  |  |
| 5180221 | 94                 | 94                 |  |  |  |  |  |  |
| Blank   | 92                 | 95                 |  |  |  |  |  |  |
| LCS     | 107                | 95                 |  |  |  |  |  |  |
| LCSD    | 105                | 96                 |  |  |  |  |  |  |

#### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



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### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1060188

Reported: 10/22/07 at 04:40 PM

Surrogate Quality Control

| MS      | 106   | 94                    | -          |                                       |
|---------|---|-----------------------|------------|---------------------------------------|
| Limits: | 63-135  | 69-129                |            | · · · · · · · · · · · · · · · · · · · |
|         | Mame: MTBE by GC/MS (water)<br>ber: D072901AA<br>Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene                  |
| 5180219 | 108   | 102                   | 108        | 107                                   |
| 5180220 | 106   | 99                    | 103        | 102                                   |
| 5180221 | 106   | 100                   | 103        | 101                                   |
| Blank   | 106   | 101                   | 104        | 103                                   |
| LCS     | 104   | 99                    | 103        | 104                                   |
| MS      | 105   | 101                   | 103        | 105                                   |
| MSD     | 105   | 103                   | 104        | 105                                   |
| Limits: | 80-116  | 77-113                | 80-113     | 78-113                                |

\*- Outside of specification

(2) The unspiked result was more than four times the spike added.

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

# Chevron California Rajion Analysis Request/Chain of Catody



For Lancaster Laboratories use only

Acct. #: 10880 Group # 1060188 Sample #: 5180219 - 21

| W; Labor  |  | )                |              |          |      |       |  |                  |          |              |              |              |              |                     | P                            | \nal                                   | /ses                   | s Re                      | ques          | ted        |         |          | SCR#:                              | <del></del> -         |       |
|---|--|------------------|--------------|----------|------|-------|--|------------------|----------|--------------|--------------|--------------|--------------|---------------------|------------------------------|--|------------------------|---------------------------|---------------|------------|---------|----------|------------------------------------|-----------------------|-------|
| Facility #: 9-0260 M1   | <u>-</u>                                   |                  |              |          |      |       |  |                  |          |              |              |              |              |                     | i                            | res                                    | erva                   | ation                     | Cod           | es         | Ţ       |          | Preserva                           |                       |       |
| Site Address: 21995 I   |  |                  |              | fornia   |      |       |  |                  |          |              |              | -            |              | ├-                  | -                            |  | _                      |                           |               | -          |         |          | N = HNO <sub>3</sub>               | T = Thios<br>B = NaOl | H     |
| Chevron PM: Satya S   |  |                  |              |          |      | -Rove | rs& Associa  | tes              |          |              | 97           |              |              |                     |                              | 5                                      | Th, 2)                 |                           |               |            |         |          |                                    | O = Othe              |       |
| Consultant/Office: CRA 5900 Hollis St., Ste A, Emeryville, CA 94608 |  |                  |              |          |      |       |  |                  |          |              | ainer        |              |              |                     |                              | PA 20(                                 | Se, Si,                |                           |               |            |         |          | ☐ Must meet low<br>possible for 83 |                       |       |
| Consultant Prj. Mgr.: Charlotte Evans                               |  |                  |              |          |      |       |  |                  |          |              | Containers   |              |              |                     |                              | 13 Proirity Pollutant Metals (EPA 200) | Cu, Pb, M, Ni, S       | Total Phenols (EPA 420.1) |               |            |         |          | Comments / Re                      |                       | :     |
| Consultant Phone #:   |  |                  |              |          |      |       | 9170   |                  |          |              | 70           |              |              | (4.2                |                              | nt Mei                                 | 2                      | PA 4                      |               |            |         | •        | Email results to<br>mlundberg@cra  | _                     | n and |
| Sampler: WARK   |  |                  |              |          |      |       |  | <del></del>      |          | <u>a</u>     | Total Number | 8            | 915          | Cyanide (EPA 335.4) | 0.1                          | olluta                                 | έ,<br>Ω,               | t) sto                    | MTBE by 8260B |            |         |          | cevans@crawo                       |                       | _     |
| Service Order #:  |  |                  | □No          | n SAF    | ₹:   |       |  |                  | ١,       | Composite    | S            | ģ            | TPHg by 8015 | de (E               | PA 15                        | olnty F                                | , Be, (                | Pher                      | E by          |            |         |          | email edf to:<br>chevronedf@cr     | aworld.co             | m .   |
| Field<br>Point Name   | Matrix                                     | Repeat<br>Sample | Top<br>Depth | Year     | Mont | h Dav | Time<br>Collected                                    | New<br>Field Pt. | Grab     | 5            | Tota         | BTEX by 8020 | TPH          | Cyan                | pH (EPA 150.1)               | 13 Pr                                  | (An, Ar, Be, Ca, Ch, C | Tota                      | MT            |            |         |          |                                    |                       |       |
| INF   | W  |                  | NA           | 07       | 1/6  | 18    | 11:55  | No               | <u>X</u> | _            | 6            | Х            | X            | <u> </u>            | <u> </u>                     |  |                        |                           | X             | _          | ╄       | -        | VOAs with HO                       |                       |       |
| MID   | W  |                  | NA           | 97       | 110  | 18    | 11:50  | No               | X        |              | 6            | _            |              |                     |                              | ļ                                      |                        |                           | X             |            | -       | -        | VOAS with H                        |                       |       |
| EFF   | W  |                  | NA           | 97       | 1 10 | 18    | 11:45  | No               | X        | -            | 6            | X            | X            |                     |                              | -                                      |                        |                           | X             | _          | +       |          | VOAs with I                        | <u>ICl</u>            |       |
|   | <del>- </del>                              |                  |              | -        |      |       | <del> </del>   |                  | ┢        |              | $\vdash$     | -            |              | -                   |                              |  | -                      |                           |               | -          | +       | 1-       |                                    |                       |       |
|   |  |                  |              |          |      |       |  |                  | L        |              | <u></u>      |              |              |                     |                              |  |                        |                           |               | _ _        | _       |          |                                    |                       |       |
|   |  | ļ                |              | _        |      |       |  |                  | 1_       |              | _            | <u> </u>     |              | -                   | -                            |  | <u> </u>               |                           | $\vdash$      | -          | ┼-      | +-       |                                    |                       |       |
|   | -  | <u> </u>         |              |          |      |       | <u> </u>   |                  | ╀        | ╁┈           | -            | ┢╌           |              | $\vdash$            | $\vdash$                     |  |                        | -                         |               |            | +       |          |                                    |                       |       |
| -   | 1  |                  |              |          |      |       |  |                  | T        | T            |              | T            |              |                     |                              |  |                        |                           |               |            |         |          |                                    |                       |       |
|   |  |                  |              |          |      |       |  |                  | L.       | ļ            | L            | _            |              | ļ                   | ļ                            |  | L                      | _                         |               |            | $\perp$ | ┿        | ļ<br>-                             |                       |       |
|   |  |                  | <u> </u>     | _        |      |       |  |                  | ╀        | <del> </del> | ├            | -            | -            | -                   | -                            | -                                      |                        |                           |               | -          | +-      | +-       |                                    |                       |       |
|   | _L   | <u> </u>         | <u> </u>     | <u> </u> |      | —т    | Relinguishe  | 1 m/1 //         | <u> </u> | l            | <u> </u>     | L            |              | ١,                  | Date                         |  | Tim                    | <br>e                     | Recei         | ved by:    |         | <u> </u> | <u> </u>                           | Date .                | Time  |
| Turnaround Time   | Requeste                                   | ed (TAT) (       | please c     | ircle)   |      | 1     | Murk   | 11 0             | w        | 11           |              |              |              | 10                  | Date<br>9                    | 07 1                                   | 2:0                    | 00 3                      | FW            | EX         |         |          |                                    | 10/9/07               |       |
| 24 hour<br>STD  | 72 h<br>4 da                               |                  | 48 ho        | ΠL       |      |       | Relinquishe  |                  |          | •            |              |              |              |                     | Date                         |  | Tim                    | e                         | Recei         | ved by:    |         |          |                                    | Date                  | Time  |
| 3,0   |  |                  |              |          |      |       | Relinguishe  | d by:            |          | _            |              |              |              | $\dagger$           | Date                         | +                                      | Tim                    | e                         | Recei         | ved by:    |         |          |                                    | Date                  | Time  |
| Data Package Optio  | ns (please                                 | circle if rec    | uired)       |          |      |       |  |                  |          |              |              |              |              |                     |                              |  |                        | 4                         |               |            |         |          |                                    | D-1-                  | Time  |
| QC Summary<br>Type VI (Raw Data)                                    | Type I – Full Coelt Deliverable not needed |                  |              |          |      |       | Relinquished by Commercial Carrier.  UPS FedEx Other |                  |          |              |              |              |              |                     | Recei                        | gil by:                                |                        | 7                         | Moures        | Date 10-10 | 0930    |          |                                    |                       |       |
| WIP (RWQCB)   |  |                  |              |          |      | ł     | Temperature Upon Receipt 46-56 C°                    |                  |          |              |              |              |              | +                   | Custody Seals Intact? Yes No |  |                        |                           |               |            |         |          |                                    |                       |       |
| Disk  |  |                  |              |          |      |       | remperatur   | o opon no        | JO. p.   |              |              |              |              |                     |                              |  |                        |                           |               |            |         |          |                                    |                       |       |

3460 Rev. 11/10/05

## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| N.D.     | none detected         | BMQL         | Below Minimum Quantitation Level               |
|----------|-----------------------|--------------|--|
| TNTC     | Too Numerous To Count | MPN          | Most Probable Number                           |
| IU       | International Units   | CP Units     | cobalt-chloroplatinate units                   |
| umhos/cm | micromhos/cm          | NTU          | nephelometric turbidity units                  |
| С        | degrees Celsius       | F            | degrees Fahrenheit                             |
| Cal      | (diet) calories       | lb.          | pound(s)                                       |
| meq      | milliequivalents      | kg           | kilogram(s)                                    |
| g        | gram(s)               | mg           | milligram(s)                                   |
| ug       | microgram(s)          | I            | liter(s)                                       |
| mÌ       | milliliter(s)         | ul           | microliter(s)                                  |
| m3       | cubic meter(s)        | fib >5 um/ml | fibers greater than 5 microns in length per ml |

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**Inorganic Qualifiers** 

- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

X.Y.Z

#### **Organic Qualifiers**

Defined in case narrative

| A B C D E J N P | TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quatitated on a diluted sample Concentration exceeds the calibration range of the instrument Estimated value Presumptive evidence of a compound (TICs only) Concentration difference between primary and | B<br>E<br>M<br>N<br>S | Value is <crdl, (msa)="" additions="" amount="" analysis="" but="" calculation="" compound="" control="" detected="" digestion="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" limits<="" met="" method="" not="" of="" out="" post="" precision="" spike="" standard="" th="" to="" used="" was="" within="" ≥idl=""></crdl,> |
|-----------------|---|-----------------------|--|
| П               | confirmation columns >25% Compound was not detected   | +                     | Correlation coefficient for MSA <0.995   |
| U               | Compound was not detected   |                       |  |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



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#### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

### **SAMPLE GROUP**

The sample group for this submittal is 1061954. Samples arrived at the laboratory on Saturday, October 20, 2007. The PO# for this group is 0015014975 and the release number is SINHA.

| Client Description      | Lancaster Labs Number |  |  |  |  |  |  |
|-------------------------|-----------------------|--|--|--|--|--|--|
| INF-W-071019 Grab Water | 5190909               |  |  |  |  |  |  |
| MID-W-071019 Grab Water | 5190910               |  |  |  |  |  |  |
| EFF-W-071019 Grab Water | 5190911               |  |  |  |  |  |  |

ELECTRONIC CRA
COPY TO
ELECTRONIC CRA
COPY TO

Attn: Charlotte Evans

Attn: Matthew Lundberg



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Questions? Contact your Client Services Representative Angela M Miller at (717) 656-2300

Respectfully Submitted,



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Page 1 of 2

Lancaster Laboratories Sample No. WW 5190909

INF-W-071019 Grab Water Facility# 90260 CETE

**21995** Foothill-Hayward T0600100315 INF Collected:10/19/2007 12:30 by PR

Submitted: 10/20/2007 10:00 Reported: 10/26/2007 at 12:09

Discard: 11/26/2007

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

HAYIN I 5E w

|       |   |                 |                          | As Received        |       |          |
|-------|---|-----------------|--------------------------|--------------------|-------|----------|
| CAT   |   |                 | As Received              | Method             |       | Dilution |
| No.   | Analysis Name   | CAS Number      | Result                   | Detection<br>Limit | Units | Factor   |
| 01729 | TPH-GRO - Waters  |                 |                          |                    |       |          |
| 01730 | TPH-GRO - Waters  | n.a.            | 42,000.                  | 1,300.             | ug/l  | 25       |
|       | The reported concentration of The gasoline constituents eluting present time.                     |                 |                          |                    |       |          |
| 05879 | BTEX  |                 |                          |                    |       | ,        |
| 02161 | Benzene   | 71-43-2         | 2,300.                   | 13.                | ug/l  | 25       |
| 02164 | Toluene   | 108-88-3        | 8,100.                   | 13.                | ug/l  | 25       |
| 02166 | Ethylbenzene  | 100-41-4        | 950.                     | 13.                | ug/l  | 25       |
| 02171 | Total Xylenes   | 1330-20-7       | 6,000.                   | 38.                | ug/l  | 25       |
| 02309 | MTBE by GC/MS (water)   |                 |                          |                    |       |          |
| 02010 | Methyl Tertiary Butyl Ether<br>The reporting limits for the GC<br>the level of non-target compoun | /MS volatile co | 38.<br>ompounds were rai | 5.<br>sed due to   | ug/l  | 10       |

State of California Lab Certification No. 2116 Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

| CAT   |                       | -                    |        |                  | Dilution -                    |        |
|-------|-----------------------|----------------------|--------|------------------|-------------------------------|--------|
| No.   | Analysis Name         | Method               | Trial# | Date and Time    | Analyst                       | Factor |
| 01729 | TPH-GRO - Waters      | TPH GRO SW-846 8015B | 1      | 10/23/2007 04:53 | K. Robert Caulfeild-<br>James | 25     |
| 05879 | BTEX                  | SW-846 8020A         | 1      | 10/23/2007 04:53 | K. Robert Caulfeild-<br>James | 25     |
| 02309 | MTBE by GC/MS (water) | SW-846 8260B         | 1      | 10/23/2007 13:58 | Ginelle L Feister             | 10     |
| 01146 | GC VOA Water Prep     | SW-846 5030B         | 1      | 10/23/2007 04:53 | K. Robert Caulfeild-<br>James | 25     |
| 01163 | GC/MS VOA Water Prep  | SW-846 5030B         | 1      | 10/23/2007 13:58 | Ginelle L Feister             | 10     |



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Lancaster Laboratories Sample No. WW 5190909

INF-W-071019 Grab Water Facility# 90260 CETE 21995 Foothill-Hayward T0600100315 INF Collected:10/19/2007 12:30

Submitted: 10/20/2007 10:00 Reported: 10/26/2007 at 12:09 Discard: 11/26/2007

HAYIN

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583



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Lancaster Laboratories Sample No. WW 5190910

MID-W-071019 Grab Water Facility# 90260 CETE

**21995 Foothill-Hayward T0600100315 MID** Collected:10/19/2007 12:20 by PR

Submitted: 10/20/2007 10:00 Reported: 10/26/2007 at 12:09

Discard: 11/26/2007

Account Number: 10880

 ${\tt ChevronTexaco}$ 

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

HAYMI I 5E w

| I 5E w |   |            |             | 3 - D 3 3          |       |          |
|--------|---|------------|-------------|--------------------|-------|----------|
|        |   |            | 3 - 7 1 3   | As Received        |       | Dilution |
| CAT    |   |            | As Received | Method             |       |          |
| No.    | Analysis Name   | CAS Number | Result      | Detection<br>Limit | Units | Factor   |
| 01729  | TPH-GRO - Waters  |            |             |                    |       |          |
| 01730  | TPH-GRO - Waters  | n.a.       | N.D.        | 50.                | ug/l  | 1        |
|        | The reported concentration of T gasoline constituents eluting p start time. |            |             |                    |       |          |
| 05879  | BTEX  |            |             |                    |       |          |
| 02161  | Benzene   | 71-43-2    | 1.2         | 0.5                | ug/l  | 1        |
| 02164  | Toluene   | 108-88-3   | 6.8         | 0.5                | ug/l  | 1        |
| 02166  | Ethylbenzene  | 100-41-4   | 0.8         | 0.5                | ug/l  | 1        |
| 02171  | Total Xylenes   | 1330-20-7  | 7.5         | 1.5                | ug/l  | 1        |
| 02309  | MTBE by GC/MS (water)   |            |             |                    |       |          |
| 02010  | Methyl Tertiary Butyl Ether   | 1634-04-4  | N.D.        | 0.5                | ug/l  | 1        |

State of California Lab Certification No. 2116 Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| Tabaratarr | ('hwani | $\alpha$ |
|------------|---------|----------|
| Laboratory | Chroni  |          |
|            |         |          |

| CAT    |                       |                          |        | Analysis         |                               | Dilution |
|--------|-----------------------|--------------------------|--------|------------------|-------------------------------|----------|
| No.    | Analysis Name         | Method                   | Trial# | Date and Time    | Analyst                       | Factor   |
| .01729 | TPH-GRO - Waters      | TPH GRO SW-846 8015B mod | 1      | 10/22/2007 23:08 | K. Robert Caulfeild-<br>James | 1        |
| 05879  | BTEX                  | SW-846 8020A             | 1      | 10/22/2007 23:08 | K. Robert Caulfeild-<br>James | 1        |
| 02309  | MTBE by GC/MS (water) | SW-846 8260B             | 1      | 10/23/2007 14:21 | Ginelle L Feister             | 1        |
| 01146  | GC VOA Water Prep     | SW-846 5030B             | 1      | 10/22/2007 23:08 | K. Robert Caulfeild-<br>James | 1        |
| 01163  | GC/MS VOA Water Prep  | SW-846 5030B             | 1      | 10/23/2007 14:21 | Ginelle L Feister             | 1 .      |



James

Ginelle L Feister

10/23/2007 14:44

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5190911 Lancaster Laboratories Sample No. WW

EFF-W-071019 Grab Water Facility# 90260 CETE

21995 Foothill-Hayward T0600100315 EFF Collected:10/19/2007 12:10

Submitted: 10/20/2007 10:00 Reported: 10/26/2007 at 12:09

Discard: 11/26/2007

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

HAYEF I 5E w

01163

GC/MS VOA Water Prep

|       |  |            |             | AS Keceived        |       |          |  |
|-------|--|------------|-------------|--------------------|-------|----------|--|
| CAT   |  |            | As Received | Method             |       | Dilution |  |
| No.   | Analysis Name  | CAS Number | Result      | Detection<br>Limit | Units | Factor   |  |
| 01729 | TPH-GRO - Waters   |            |             |                    |       |          |  |
| 01730 | TPH-GRO - Waters   | n.a.       | N.D.        | 50.                | ug/l  | 1        |  |
|       | The reported concentration of The gasoline constituents eluting prostart time. |            |             |                    |       |          |  |
| 05879 | BTEX   |            |             |                    |       |          |  |
| 02161 | Benzene  | 71-43-2    | N.D.        | 0.5                | ug/l  | 1        |  |
| 02164 | Toluene  | 108-88-3   | N.D.        | 0.5                | ug/l  | 1        |  |
| 02166 | Ethylbenzene   | 100-41-4   | N.D.        | 0.5                | ug/l  | 1        |  |
| 02171 | Total Xylenes  | 1330-20-7  | N.D.        | 1.5                | ug/l  | 1        |  |
| 02309 | MTBE by GC/MS (water)  |            |             |                    |       |          |  |
| 02010 | Methyl Tertiary Butyl Ether  | 1634-04-4  | N.D.        | 0.5                | ug/l  | 1        |  |

State of California Lab Certification No. 2116 Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

SW-846 5030B

| CAT   |                       | _                        |        | Analysis         |                               | Dilution |
|-------|-----------------------|--------------------------|--------|------------------|-------------------------------|----------|
| No.   | Analysis Name         | Method                   | Trial# | Date and Time    | Analyst                       | Factor   |
| 01729 | TPH-GRO - Waters      | TPH GRO SW-846 8015B mod | 1      | 10/22/2007 23:29 | K. Robert Caulfeild-<br>James | 1        |
| 05879 | BTEX                  | SW-846 8020A             | 1      | 10/22/2007 23:29 | K. Robert Caulfeild-<br>James | 1        |
| 02309 | MTBE by GC/MS (water) | SW-846 8260B             | 1      | 10/23/2007 14:44 | Ginelle L Feister             | 1        |
| 01146 | GC VOA Water Prep     | SW-846 5030B             | 1      | 10/22/2007 23:29 | K. Robert Caulfeild-          | 1        |

Laboratory Chronicle



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### Quality Control Summary

Client Name: ChevronTexaco Reported: 10/26/07 at 12:09 PM Group Number: 1061954

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

| Analysis Name  | Blank<br><u>Result</u> | Blank<br>MDL    | Report<br><u>Units</u> | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br><u>Limits</u> | RPD | RPD Max |
|--|------------------------|-----------------|------------------------|-------------|--------------|---------------------------|-----|---------|
| Batch number: 07295B54A                                | Sample nu              | mber(s):        | 5190909-51             | 90911       |              |                           |     |         |
| TPH-GRO - Waters                                       | N.D.                   | 50.             | ug/l                   | 114         | 120          | 75-135                    | 5   | 30      |
| Benzene  | N.D.                   | 0.5             | ug/l                   | 95          | 89           | 86-119                    | 7   | 30      |
| Toluene  | N.D.                   | 0.5             | ug/l                   | 104         | 98           | 82-119                    | 6   | 30      |
| Ethylbenzene   | N.D.                   | 0.5             | ug/l                   | 102         | 96           | 81-119                    | 6   | 30      |
| Total Xylenes  | N.D.                   | 1.5             | ug/l                   | 103         | 98           | 82-120                    | 6   | 30      |
| Batch number: D072961AA<br>Methyl Tertiary Butyl Ether | Sample nu<br>N.D.      | mber(s):<br>0.5 | 5190909-51<br>ug/l     | 90911<br>90 |              | 73-119                    |     |         |

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name  | MS<br>%REC                                | MSD<br>%REC | MS/MSD<br><u>Limits</u>                                     | RPD         | RPD<br>MAX | BKG<br>Conc | DUP<br>Conc | DUP<br><u>RPD</u> | Dup RPD<br>Max |
|--|---|-------------|---|-------------|------------|-------------|-------------|-------------------|----------------|
| Batch number: 07295B54A<br>TPH-GRO - Waters<br>Benzene<br>Toluene<br>Ethylbenzene<br>Total Xylenes | Sample<br>122<br>104<br>111<br>107<br>111 | number(s)   | : 5190909<br>63-154<br>78-131<br>78-129<br>75-133<br>84-131 | -51909      | 11 UNSPI   | K: P189561, | P189562     |                   |                |
| Batch number: D072961AA<br>Methyl Tertiary Butyl Ether   | Sample<br>97                              | number(s)   | : 5190909<br>69-127   | -51909<br>2 | 11 UNSP    | K: P190980  |             |                   |                |

#### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Trifluorotoluene-P

Analysis Name: TPH-GRO - Waters

Batch number: 07295B54A Trifluorotoluene-F

| 5190909 | 93  | 98 |
|---------|-----|----|
| 5190910 | 86  | 94 |
| 5190911 | 95  | 93 |
| Blank   | 86  | 93 |
| LCS     | 99  | 93 |
| LCSD    | 101 | 92 |

### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



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### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1061954

Reported: 10/26/07 at 12:09 PM

Surrogate Quality Control

| MS      | 101   | 92                    |            |                      |
|---------|---|-----------------------|------------|----------------------|
| Limits: | 63-135  | 69-129                |            |                      |
|         | Name: MTBE by GC/MS (water)<br>ber: D072961AA<br>Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
| 5190909 | 104   | 99                    | 106        | 100                  |
| 5190910 | 110   | 104                   | 106        | 104                  |
| 5190911 | 106   | 102                   | 103        | 99                   |
| Blank   | 108   | 100                   | 104        | 100                  |
| LCS     | 103   | 100                   | 104        | 103                  |
| MS      | 105   | 103                   | 104        | 106                  |
| MSD     | 104   | 99                    | 101        | 103                  |
| Limits  | 80-116  | 77-113                | 80-113     | 78-113               |

\*- Outside of specification

(2) The unspiked result was more than four times the spike added.

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

### Chevron California agion Analysis Request/Chain of astody



For Lancaster Laboratories use only

Acct. #: 10880 Group # 106 | 954 Sample #51 9 0 9 0 9 - 11

| o, Lasoi                       | ator ic.                           |              |                 |                    |              |             |        |              |               |              |              |                     | -              | Anal                                  | yses             | Re                 | quest          | æd     |          | -           | SCR#:   |                      |              |                  |  |  |
|--------------------------------|------------------------------------|--------------|-----------------|--------------------|--------------|-------------|--------|--------------|---------------|--------------|--------------|---------------------|----------------|---------------------------------------|------------------|--------------------|----------------|--------|----------|-------------|---|----------------------|--------------|------------------|--|--|
| Facility #: 9-0260 M           | 1L                                 |              |                 |                    |              |             | Γ      |              |               |              |              | _                   | - 1            | Pres                                  | erva             | ition              | n Cod          | es     |          |             | 1   | ative Cod            |              |                  |  |  |
| Site Address: 21995            | ·                                  |              |                 | <u> </u>           |              |             |        |              |               |              | -            |                     |                |                                       | Z)               |                    |                | +      | +        |             | <b>H</b> = HCl<br><b>N</b> = HNO <sub>3</sub> | T = Thios<br>B = NaO | Н            |                  |  |  |
| Chevron PM: Satya              | Sinha                              | Lead Con     | sultant:        | Conestoga-Rove     | rs& Associa  | ntes        |        |              | 2             |              |              |                     |                | <u>§</u>                              | Si.              |                    |                |        |          | .           |   |                      |              |                  |  |  |
| Consultant/Office: Cl          | RA 5900 H                          | ollis St., S | te A, <u>Er</u> | neryville, CA 9460 | <u>)8</u>    |             | l      |              | aine          |              |              | Ì                   |                | PA 20                                 | Š                |                    |                | ŀ      |          |             | ☐ Must meet lor<br>possible for 8             |                      |              |                  |  |  |
| Consultant Prj. Mgr.:          | Charlotte I                        | Evans        |                 |                    |              |             |        |              | of Containers |              |              |                     |                | als (E                                | z<br>∑           | 420.1)             |                |        |          |             | Comments / Re                                 | ∍marks               |              |                  |  |  |
| Consultant Phone #:            | 510-420-3                          | 351          |                 | Fax #: 510-420-9   | 170          |             |        |              | ğ             |              |              | 4.                  |                | 13 Prointy Pollutant Metals (EPA 200) | t Meta           | t Met              | Ch, Cu, Pb, M, | λ, Pb, | PA 4     | PA          |   |                      |              | Email results to |  |  |
| Sampler: Par RASMUSSEN         |                                    |              |                 |                    |              |             |        | 9 4          | per           | R            | 5            | 4 335               | =              | leta<br>Figure                        | 6                | a) sı              | 8260B          |        |          |             | mlundberg@cr<br>cevans@crawo                  |                      | <u>m</u> and |                  |  |  |
| Service Order #:               |                                    |              |                 |                    |              |             |        | Sosit        | Ş             | 6<br>6       | 8            | EP,                 | A 150          | ₽<br>PP                               | ි .<br>ව         | henc               | <b>金</b>       |        |          |             | email edf to:                                 |                      |              |                  |  |  |
| Field                          |                                    | Repeat       | Тор             |                    | Time         | New         | Grab   | Composite    | Total Number  | BTEX by 8020 | TPHg by 8015 | Cyanide (EPA 335.4) | pH (EPA 150.1) | 3 Prol                                | (An, Ar, Be, Ca, | Total Phenols (EPA | MTBE           |        |          |             | chevronedf@c                                  | raworld.co           | <u>m</u>     |                  |  |  |
| Point Name<br>INF              | Matrix<br>W                        | Sample       |                 | Year Month Day     |              | No          | X      | <del> </del> | 6             |              | X            | O                   | -              | -                                     | 3                | T                  | X              | +-     | +        | +           | VOAs with H                                   | CI                   |              |                  |  |  |
| MID                            | l w                                |              | NA.             | 7 / 10 / 19        |              | No          | x      | 1            | 6             |              | X            |                     |                | <u> </u>                              | -                |                    | x              | 1      |          | $\top$      | VOAS with H                                   |                      |              |                  |  |  |
| EFF                            | W                                  |              | NA              | 7/10/19            |              | No          | Х      | 1            | 6             | _            | X            |                     |                |                                       |                  |                    | х              |        |          |             | VOAs with l                                   |                      |              |                  |  |  |
|                                |                                    |              |                 |                    |              |             | -      |              |               |              |              |                     |                | ļ <u></u>                             |                  |                    |                | -      |          |             |   | <del></del>          |              |                  |  |  |
|                                |                                    |              |                 |                    |              |             | _      |              |               |              |              |                     | <u> </u>       |                                       |                  |                    |                |        | <u> </u> |             |   |                      |              |                  |  |  |
|                                |                                    |              |                 |                    |              |             | F      |              |               | -            | _            |                     | <u> </u>       | ļ                                     |                  | -                  |                |        | +-       | +-          |   |                      |              |                  |  |  |
|                                |                                    |              |                 |                    |              |             |        |              |               |              |              |                     |                |                                       |                  |                    |                |        |          |             |   |                      |              |                  |  |  |
|                                |                                    |              |                 |                    |              |             |        |              |               |              |              |                     |                |                                       |                  |                    |                |        |          |             |   |                      | _            |                  |  |  |
| <u> </u>                       |                                    | ļ            |                 |                    |              |             |        | <u> </u>     |               |              |              |                     |                | ļ                                     |                  |                    |                |        | 1        |             |   |                      |              |                  |  |  |
|                                |                                    | ļ            |                 |                    |              |             | -      |              | _             | _            |              |                     |                |                                       |                  |                    |                | +      | ╁┈       | -           |   |                      |              |                  |  |  |
| Turnaround Time                | Requeste                           | d (TAT) (s   | lease ci        | rcle)              | Relinquished |             | <br>   |              |               | <u>r</u>     |              |                     | Date           |                                       | Time             | • .                | Receiv         |        |          |             | Ex  | Date                 | Time         |                  |  |  |
| 24 hour<br>STD                 | 72 ho                              | our          | 48 hou<br>5 day |                    | Relinquished | d by:       | 4      |              | ~             |              |              |                     | ////<br>Date   | _                                     | Time             | +                  | Receiv         |        |          |             | <u> </u>                                      | Date                 | Time         |                  |  |  |
|                                |                                    | ·            |                 |                    | Relinquished | <u>i by</u> |        |              |               |              |              |                     | Date           | +                                     | Time             | =                  | Receiv         | ed by: |          | <del></del> |   | Date                 | Time         |                  |  |  |
| Data Package Option QC Summary | o <b>ns</b> (please<br>Type I – Fu |              | uirea)          | 1                  | Relinquished |             | · ·    | ıl Car       | rior:         |              |              |                     |                |                                       |                  | -                  | Receiv         | adda.  |          | =           |   | Date                 | Time         |                  |  |  |
| Type VI (Raw Data)             | ☐ Coelt De                         | liverable no | t needed        | 1                  | ups (        | FedEx       | )      | Ot           | her _         | <u> </u>     |              |                     |                |                                       |                  |                    | - L            |        |          | Œ           | ) In  | 1920/0               | L            |                  |  |  |
| WIP (RWQCB)<br>Disk            |                                    |              |                 |                    | Temperature  | Upon Red    | ceipt_ | ٥.           | 98            |              | <b>?</b> °   |                     |                |                                       |                  |                    | Custoo         | iy Sea | ls Inta  | act?        | Yes No  |                      |              |                  |  |  |

## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| N.D.     | none detected         | BMQL         | Below Minimum Quantitation Level               |
|----------|-----------------------|--------------|--|
| TNTC     | Too Numerous To Count | MPN          | Most Probable Number                           |
| IU       | International Units   | CP Units     | cobalt-chloroplatinate units                   |
| umhos/cm | micromhos/cm          | NTU          | nephelometric turbidity units                  |
| С        | degrees Celsius       | F            | degrees Fahrenheit                             |
| Cal      | (diet) calories       | lb.          | pound(s)                                       |
| meg      | millieguivalents      | kg           | kilogram(s)                                    |
| g        | gram(s)               | mg           | milligram(s)                                   |
| ug       | microgram(s)          | Ī            | liter(s)                                       |
| mĬ       | milliliter(s)         | ul           | microliter(s)                                  |
| m3       | cubic meter(s)        | fib >5 um/ml | fibers greater than 5 microns in length per ml |
|          |                       |              |  |

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

Inorganic Qualifiers

- ppb parts per billion
- **Dry weight**Besults printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

#### Value is <CRDL, but ≥IDL TIC is a possible aldol-condensation product В Α Е Estimated due to interference В Analyte was also detected in the blank М Duplicate injection precision not met C Pesticide result confirmed by GC/MS Spike amount not within control limits D Compound quatitated on a diluted sample Ν Method of standard additions (MSA) used Concentration exceeds the calibration range of S for calculation the instrument Estimated value U Compound was not detected J Post digestion spike out of control limits Presumptive evidence of a compound (TICs only) W Ν Duplicate analysis not within control limits Concentration difference between primary and Correlation coefficient for MSA < 0.995 + confirmation columns >25%

U Compound was not detected

X,Y,Z Defined in case narrative

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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