Satya Sinha
Project Manger
Retail and Terminal
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

August 7, 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

CONESTOGA-ROVERS
& ASSOCIATES

5900 Hollis Street, Suite A, Emeryville, California 94608
Telephone: 510-420-0700 Facsimile: 510-420-9170
www.CRAworld.com

August 10, 2007

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

Re: **Monthly Discharge Report – July 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 Bob Foss at (510) 420-3351.

Sincerely,
**Conestoga-Rovers & Associates**

Robert Foss

Robert Foss, PG

PROFESSIONAL GEOLOGIST
ROBERT C. FOSS
No. 7445
exp 08/08
STATE OF CALIFORNIA

Enclosure: Monthly Discharge Report – July 2007

cc: Mr. Satya Sinha, ChevronTexaco Corporation, P.O. Box 6012, San Ramon, CA 94583

CONESTOGA-ROVERS
& ASSOCIATES

# MONTHLY DISCHARGE REPORT – JULY 2007

## Reporting Period Data Summary

| | |
|---|---|
| **Compliance Sampling Frequency** | Monthly |
| **Initial Totalizer Reading** | 211 gallons |
| **Final Totalizer Reading** | 9,422 gallons |
| **Discharged Volume** | 9,211 gallons |
| **Average Discharge Flow Rate** | 4.51 gallons per minute |
| **Maximum Discharge Flow Rate** | 10.54 gallons per minute |
| **Discharge Violations or Exceedances** | None |

Tables: 1 – Groundwater Extraction – System Analytical Data
2 – Groundwater Extraction – Operation and Mass Removal Data
3 – Groundwater Extraction – Effluent Compliance

Attachments: A – Laboratory Analytical Reports



I:\Chevron\9-0260 Hayward\Remediation\O&M\Monthly Discharge Reports\July 07\July 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 Date | TPHg Conc. (µg/L) | Benzene Conc. (µg/L) | MTBE Conc. (µg/L) | TPHg Conc. (µg/L) | Benzene Conc. (µg/L) | MTBE Conc. (µg/L) | TPHg Conc. (µg/L) | Benzene Conc. (µg/L) | MTBE Conc. (µg/L) | pH Conc. |
| 06/25/07 | 34,000 | 2000 | 92 | NA | NA | NA | < 50 | < 0.5 | < 0.5 | 7.17 |
| 07/17/07 | 42,000 | 1700 | 57 | < 50 | < 0.5 | < 0.5 | < 50 | < 0.5 | < 0.5 | 7.1 |

**Abbreviations & Notes:**

Conc. = Concentration
µg/L = Micrograms per liter
NA = Not analyzed
TPHg = Total purgeable hydrocarbons as gasoline, analyzed by EPA Method 8015B
pH analyzed by SM4500H+B
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

| Site Visit (mm/dd/yy) | Hour Meter (hours) | Flow Meter Reading (gal) | Period Volume (gal) | Period Operational Flow Rate (gpm) | Cumulative Volume (gal) | TPHg Conc. (µg/L) | TPHg Period Removal (pounds) | TPHg Cumulative Removal (pounds) | Benzene Conc. (µg/L) | Benzene Period Removal (pounds) | Benzene Cumulative Removal (pounds) | MTBE Conc. (µg/L) | MTBE Period Removal (pounds) | MTBE Cumulative Removal (pounds) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/25/07 | 0.0 | 211 | 0 | 0.00 | 0 | 34000 | 0.000 | 0.000 | 2000 | 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 | 42000 | 2.563 | 2.563 | 1700 | 0.104 | 0.104 | 57 | 0.003 | 0.003 |
| 07/26/07 | 5.0 | 9,422 | 1,898 | 10.54 | 9,211 | NS | 0.665 | 3.228 | NS | 0.027 | 0.131 | NS | 0.001 | 0.004 |
| | | **Total Extracted Volume (gal):** | | | **9,211** | **Pounds Removed:** | | **3.228** | **Pounds Removed:** | | **0.131** | **Pounds Removed:** | | **0.004** |
| | | **Average Operational Flow Rate (gpm):** | | | **4.26** | **Gallons Removed:** | | **0.530** | **Gallons Removed:** | | **0.018** | **Gallons Removed:** | | **0.001** |

**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
Mass removed based on the formula: volume extracted (gal) x Concentration (g/L) x (g/$10^6$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 Date | TPHg Conc. (µg/L) | Benzene Conc. (µg/L) | Toluene Conc. (µg/L) | Ethlybenzene Conc. (µg/L) | Xylenes Conc. (µg/L) | pH Conc. |
| 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 | 7.1 |

**Abbreviations & Notes:**

Conc. = Concentration
µg/L = Micrograms per liter
NA = Not analyzed
pH analyzed by SM4500H+B
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

**McCampbell Analytical, Inc.**
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

| | | |
|---|---|---|
| Conestoga-Rovers & Associates | Client Project ID: #311915; 9-0260 | Date Sampled: 06/25/07 |
| 5900 Hollis St, Suite A | | Date Received: 06/25/07 |
| Emeryville, CA 94608 | Client Contact: Matt Lundberg | Date Reported: 06/28/07 |
| | Client P.O.: | Date Completed: 07/11/07 |

**WorkOrder: 0706641**

July 11, 2007

Dear Matt:

Enclosed are:

1). the results of **2** analyzed samples from your **#311915; 9-0260 project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

CETE 070664!

# McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

# CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAY

GeoTracker EDF ☒ PDF ☒ Excel ☐ Write On (DW) ☐

| | |
|---|---|
| Report To: Matt Lundberg | Bill To: Chevron EMC |
| Company: Conestoga-Rovers & Associates | |
| | E-Mail: mlundberg@craworld.com |
| Tele: ( 510 ) 420 - 3346 | Fax: ( 510 ) 420 - 9170 |
| Project #: 311915 | Project Name: 9-0260 |
| Project Location: 21995 Foothill Blvd, Hayward, CA | |
| Sampler Signature: Matt Lundberg | |

| SAMPLE ID | LOCATION/ Field Point Name | SAMPLING Date | SAMPLING Time | # Containers | Type Containers | MATRIX: Water | Soil | Air | Sludge | Other | METHOD PRESERVED: $H_2SO_4$ | HCL | $HNO_3$ | NaOH | TPH: 8015 | BTEX (8020) | Total Petroleum (418.1) | Cyanide (9010) | Priority Pollutant Metals (Series 200) | pH | MTBE (8260) | EPA 608 / 8082 PCB's ONLY; Arochlors / Congeners | EPA 507 / 8141 (NP Pesticides) | EPA 515.1 / 8151 (Acidic Cl Herbicides) | EPA 524.2 / 624 / 8260 (VOCs) | EPA 525.2 / 625 / 8270 (SVOCs) | TPA 8270 SIM / 8310 (PAHs / PNAs) | CAM 17 Metals (200.7 / 200.8 / 6010 / 6020) | LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) | Lead (200.7 / 200.8 / 6010 / 6020) | Other | Other | Other | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INF | INF | 6/25 | 14:25 | | 4 | X | | | | | | X | | | X | X | | | | | X | | | | | | | | | | | | VOAs w/ HCl |
| INF | INF | 6/25 | 14:30 | | 1 | X | | | | | X | | | | | | X | | | | | | | | | | | | | | | | 1 L amber w/ H2SO4 |
| INF | INF | 6/25 | 14:35 | | 1 | X | | | | | | | | X | | | | X | | | | | | | | | | | | | | | | 250mL NaOH pres |
| INF | INF | 6/25 | 14:40 | | 1 | X | | | | | | | | | | | | | X | X | | | | | | | | | | | | | | 250 mL plastic no pres |
| EFF | EFF | 6/25 | 14:45 | | 4 | X | | | | | | X | | | X | X | | | | | X | | | | | | | | | | | | | VOAs w/ HCl |
| EFF | EFF | 6/25 | 14:50 | | 1 | X | | | | | X | | | | | | X | | | | | | | | | | | | | | | | | 1 L amber w/ H2SO4 |
| EFF | EFF | 6/25 | 14:55 | | 1 | X | | | | | | | | X | | | | X | | | | | | | | | | | | | | | | 250 mL NaOH pres |
| EFF | EFF | 6/25 | 15:00 | | 1 | X | | | | | | | | | | | | | X | X | | | | | | | | | | | | | | 250 mL plastic no pres |

| | | | |
|---|---|---|---|
| Relinquished By: | Date: 6/25 | Time: 17:15 | Received By: |
| Relinquished By: | Date: 6/26/07 | Time: 5:20 | Received By: |
| Relinquished By: | Date: | Time: | Received By: |

ICE/ 12.5
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB

VOAS O&G METALS OTHER
PRESERVATION pH<2

COMMENTS:
cc report to cevans@craworld.com
Send EDF to chevronedf@craworld.com

Filter Samples for Metals analysis: (Yes) No

**McCampbell Analytical, Inc.**
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD



**WorkOrder: 0706641** **ClientID: CETE**

☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

**Report to:**
Matt Lundberg
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608

Email:
TEL: (510) 420-070 FAX: (510) 420-917
ProjectNo: #311915; 9-0260
PO:

**Bill to**
Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

**Requested TAT:** 3 days

***Date Received:*** 06/25/2007
***Date Printed:*** 07/11/2007

| Sample ID | ClientSampID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0706641-001 | INF | Water | 06/25/07 2:25:00 | ☐ | D | A | C | E | B | E | E | A | | | | |
| 0706641-002 | EFF | Water | 06/25/07 2:45:00 | ☐ | D | A | C | E | B | E | E | | | | | |

**Test Legend:**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | CN_TOTAL_W | 2 | G-MBTEX_W | 3 | MTBE_W | 4 | PH_W | 5 | PHENOLICS_W |
| 6 | PP13MS_DISS | 7 | PRDISSOLVED | 8 | PREDF REPORT | 9 | | 10 | |
| 11 | | 12 | | | | | | | |

**Prepared by: Kimberly Burks**

**Comments:**

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

**McCampbell Analytical, Inc.**
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

# Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates**
Date and Time Received: **06/25/07 5:56:18 PM**
Project Name: **#311915; 9-0260**
Checklist completed and reviewed by: Kimberly Burks
WorkOrder N°: **0706641** Matrix Water
Carrier: Client Drop-In

## Chain of Custody (COC) Information

| | | |
|---|---|---|
| Chain of custody present? | Yes ☑ | No ☐ |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ |
| Sample IDs noted by Client on COC? | Yes ☑ | No ☐ |
| Date and Time of collection noted by Client on COC? | Yes ☑ | No ☐ |
| Sampler's name noted on COC? | Yes ☑ | No ☐ |

## Sample Receipt Information

| | | | |
|---|---|---|---|
| Custody seals intact on shippping container/cooler? | Yes ☑ | No ☐ | NA ☐ |
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| Samples in proper containers/bottles? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |

## Sample Preservation and Hold Time (HT) Information

| | | | |
|---|---|---|---|
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature | Cooler Temp: 7.6°C | | NA ☐ |
| Water - VOA vials have zero headspace / no bubbles? | Yes ☑ | No ☐ | No VOA vials submitted ☐ |
| Sample labels checked for correct preservation? | Yes ☑ | No ☐ | |
| TTLC Metal - pH acceptable upon receipt (pH<2)? | Yes ☐ | No ☐ | NA ☑ |

Client contacted: Date contacted: Contacted by:

Comments:

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Telephone: 877-252-9262 Fax: 925-252-9269

| | | |
|---|---|---|
| Conestoga-Rovers & Associates | Client Project ID: #311915; 9-0260 | Date Sampled: 06/25/07 |
| | | Date Received: 06/25/07 |
| 5900 Hollis St, Suite A | Client Contact: Matt Lundberg | Date Extracted: 06/27/07 |
| Emeryville, CA 94608 | Client P.O.: | Date Analyzed: 06/27/07 |

**Cyanide, Total***

Analytical Method: E335.3 / Kelada-01 Work Order: 0706641

| Lab ID | Client ID | Matrix | Total Cyanide | DF |
|---|---|---|---|---|
| 0706641-001D | INF | W | ND | 1 |
| 0706641-002D | EFF | W | ND | 1 |
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|---|---|---|---|
| Reporting Limit for DF = 1; ND means not detected at or above the reporting limit | W | 2.0 µg/L | |
| | S | NA | |

* water samples are reported in ug/L; soil/sludge/solid samples in mg/kg; wipe samples in µg/wipe.
^ All water samples are screened for sulfide interference prior to analysis and treated to remove sulfide if it is present. All soil samples are treated to remove sulfide, nitrate and nitrite interference prior to analysis.

i) liquid sample contains greater than ~1 vol. % sediment; j) reporting limit raised due to high sediment content/matrix interference; m) sample treated to remove interfering sulfide per E335.4; n) sample treated to remove interfering nitrate and nitrite per E335.4; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

**McCampbell Analytical, Inc.**
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

| | | |
|---|---|---|
| Conestoga-Rovers & Associates | Client Project ID: #311915; 9-0260 | Date Sampled: 06/25/07 |
| 5900 Hollis St, Suite A | | Date Received: 06/25/07 |
| Emeryville, CA 94608 | Client Contact: Matt Lundberg | Date Extracted: 06/26/07-06/28/07 |
| | Client P.O.: | Date Analyzed: 06/26/07-06/28/07 |

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE***

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0706641

| Lab ID | Client ID | Matrix | TPH(g) | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS |
|---|---|---|---|---|---|---|---|---|---|---|
| 001A | INF | W | 34,000,a | --- | 2000 | 6400 | 1300 | 6100 | 100 | 98 |
| 002A | EFF | W | ND | --- | ND | ND | ND | ND | 1 | 89 |
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|---|---|---|---|---|---|---|---|---|---|
| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | 50 | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1 | µg/L |
| | S | NA | NA | NA | NA | NA | NA | 1 | mg/Kg |

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

| | | |
|---|---|---|
| Conestoga-Rovers & Associates | Client Project ID: #311915; 9-0260 | Date Sampled: 06/25/07 |
| 5900 Hollis St, Suite A | | Date Received: 06/25/07 |
| Emeryville, CA 94608 | Client Contact: Matt Lundberg | Date Extracted: 06/26/07-06/27/07 |
| | Client P.O.: | Date Analyzed 06/26/07-06/27/07 |

## Methyl tert-Butyl Ether*

Extraction method: SW5030B Analytical methods: SW8260B Work Order: 0706641

| Lab ID | Client ID | Matrix | Methyl-t-butyl ether (MTBE) | DF | % SS |
|---|---|---|---|---|---|
| 001C | INF | W | 92 | 10 | 99 |
| 002C | EFF | W | ND | 1 | 100 |

| | | | | |
|---|---|---|---|---|
| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | 0.5 | µg/L |
| | S | NA | NA |

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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| | | |
|---|---|---|
| Conestoga-Rovers & Associates | Client Project ID: #311915; 9-0260 | Date Sampled: 06/25/07 |
| 5900 Hollis St, Suite A | | Date Received: 06/25/07 |
| Emeryville, CA 94608 | Client Contact: Matt Lundberg | Date Extracted: 06/25/07 |
| | Client P.O.: | Date Analyzed: 06/25/07 |

## pH

Analytical Method: SM4500H+B Work Order: 0706641

| Lab ID | Client ID | Matrix | pH |
|---|---|---|---|
| 0706641-001E | INF | W | 6.98 @ 19.8°C |
| 0706641-002E | EFF | W | 7.17 @ 21.8°C |
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| | | | |
| | | | |
| Method Accuracy and Reporting Units | | W | ±0.05, pH units @ °C |
| | | S | NA |

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

**McCampbell Analytical, Inc.**
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

| | | |
|---|---|---|
| Conestoga-Rovers & Associates | Client Project ID: #311915; 9-0260 | Date Sampled: 06/25/07 |
| 5900 Hollis St, Suite A | | Date Received: 06/25/07 |
| Emeryville, CA 94608 | Client Contact: Matt Lundberg | Date Extracted: 06/27/07 |
| | Client P.O.: | Date Analyzed: 06/27/07 |

## Phenolics*

Analytical Method: E420.2 Work Order: 0706641

| Lab ID | Client ID | Matrix | Phenolics | DF |
|---|---|---|---|---|
| 0706641-001B | INF | W | 49 | 1 |
| 0706641-002B | EFF | W | ND | 1 |
| | | | | |
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| | | | |
|---|---|---|---|
| Reporting Limit for DF = 1; ND means not detected at or above the reporting limit | W | 2.0 µg/L | |
| | S | NA | |

*water samples are reported in ug/L.

i) liquid sample that contains greater than 1 vol. % sediment.

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| | | |
|---|---|---|
| Conestoga-Rovers & Associates | Client Project ID: #311915; 9-0260 | Date Sampled: 06/25/07 |
| | | Date Received: 06/25/07 |
| 5900 Hollis St, Suite A | Client Contact: Matt Lundberg | Date Extracted: 06/25/07 |
| Emeryville, CA 94608 | Client P.O.: | Date Analyzed: 06/26/07-06/27/07 |

## Priority Pollutant Metals by ICP-MS*

Extraction Method: E200.8 Analytical Method: E200.8 Work Order: 0706641

| Lab ID | 0706641-001E | 0706641-002E | | | Reporting Limit for DF =1 | |
|---|---|---|---|---|---|---|
| Client ID | INF | EFF | | | | |
| Matrix | Water | Water | | | | |
| DF | 1 | 1 | | | | |
| Extraction Type | DISS. | DISS. | | | S | W |
| **Compound** | **Concentration** | | | | µg/kg | µg/L |
| Antimony | 2.3 | 2.5 | | | NA | 0.5 |
| Arsenic | 520 | 36 | | | NA | 0.5 |
| Beryllium | ND | ND | | | NA | 0.5 |
| Cadmium | ND | ND | | | NA | 0.25 |
| Chromium | ND | ND | | | NA | 0.5 |
| Copper | 0.86 | 1.6 | | | NA | 0.5 |
| Lead | 1.0 | 0.51 | | | NA | 0.5 |
| Mercury | 0.015 | 0.014 | | | NA | 0.012 |
| Nickel | 3.7 | 28 | | | NA | 0.5 |
| Selenium | ND | ND | | | NA | 0.5 |
| Silver | ND | ND | | | NA | 0.19 |
| Thallium | ND | ND | | | NA | 0.5 |
| Zinc | 120 | 94 | | | NA | 5.0 |
| **Surrogate Recoveries (%)** | | | | | | |
| %SS: | N/A | N/A | | | | |
| **Comments** | | | | | | |

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

# means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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# QC SUMMARY REPORT FOR Kelada-01

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0706641

| EPA Method E335.3 / Kelada-01 | Extraction E335.3 / Kelada-01 | | | | BatchID: 28835 | | | | Spiked Sample ID: 0706519-001E | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acceptance Criteria (%) | | | |
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| Total Cyanide | 9.3 | 40 | 104 | 97.1 | 5.18 | 99.6 | 103 | 3.32 | 80 - 120 | 20 | 90 - 110 | 20 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 28835 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 0706641-001D | 06/25/07 2:25 PM | 06/27/07 | 06/27/07 1:21 PM | 0706641-002D | 06/25/07 2:45 PM | 06/27/07 | 06/27/07 1:22 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification N° 1644

QA/QC Officer

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# QC SUMMARY REPORT FOR E420.2

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0706641

| EPA Method E420.2 | Extraction E420.2 | | | | BatchID: 28836 | | | | Spiked Sample ID: 0706519-001C | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acceptance Criteria (%) | | | |
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| Phenolics | 27 | 40 | 105 | 98 | 4.15 | 94.7 | 93.5 | 1.27 | 70 - 130 | 30 | 80 - 120 | 20 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 28836 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 0706641-001B | 06/25/07 2:25 PM | 06/27/07 | 06/27/07 1:18 PM | 0706641-002B | 06/25/07 2:45 PM | 06/27/07 | 06/27/07 1:20 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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# QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0706641

| EPA Method E200.8 | Extraction E200.8 | | | BatchID: 28913 | | | | Spiked Sample ID: 0706636-001A | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acceptance Criteria (%) | | | |
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| Antimony | 4.8 | 10 | 117 | 118 | 0.181 | 97.4 | 98.5 | 1.14 | 75 - 125 | 20 | 85 - 115 | 20 |
| Arsenic | 0.65 | 10 | 99.5 | 101 | 1.41 | 98.1 | 98.3 | 0.180 | 75 - 125 | 20 | 85 - 115 | 20 |
| Beryllium | ND | 10 | 111 | 108 | 2.73 | 103 | 102 | 0.293 | 75 - 125 | 20 | 85 - 115 | 20 |
| Cadmium | 0.25 | 10 | 101 | 103 | 1.43 | 94.5 | 96.4 | 2.01 | 75 - 125 | 20 | 85 - 115 | 20 |
| Chromium | 1.4 | 10 | 105 | 108 | 2.41 | 99.6 | 96.6 | 3.02 | 75 - 125 | 20 | 85 - 115 | 20 |
| Copper | 110 | 10 | 85 | 90 | 0.409 | 102 | 103 | 0.781 | 75 - 125 | 20 | 85 - 115 | 20 |
| Lead | 9.1 | 10 | 98.6 | 98.2 | 0.264 | 95.3 | 95.6 | 0.388 | 75 - 125 | 20 | 85 - 115 | 20 |
| Mercury | 0.11 | 0.25 | 91 | 92 | 0.772 | 94.4 | 96.8 | 2.51 | 75 - 125 | 20 | 85 - 115 | 20 |
| Nickel | 2.5 | 10 | 97.8 | 101 | 2.58 | 94.1 | 93 | 1.19 | 75 - 125 | 20 | 85 - 115 | 20 |
| Selenium | ND | 10 | 97.6 | 94.7 | 2.94 | 89.9 | 93.5 | 3.90 | 75 - 125 | 20 | 85 - 115 | 20 |
| Silver | 1.2 | 10 | 100 | 101 | 0.979 | 95.8 | 96.6 | 0.811 | 75 - 125 | 20 | 85 - 115 | 20 |
| Thallium | ND | 10 | 96.4 | 97.9 | 1.51 | 93.7 | 93.5 | 0.224 | 75 - 125 | 20 | 85 - 115 | 20 |
| Zinc | 140 | 100 | 102 | 101 | 0.163 | 98.9 | 101 | 1.83 | 75 - 125 | 20 | 85 - 115 | 20 |
| %SS: | 101 | 750 | 103 | 101 | 2.25 | 98 | 99 | 1.65 | 70 - 130 | 20 | 70 - 130 | 20 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 28913 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 0706641-001E | 06/25/07 2:25 PM | 06/25/07 | 06/26/07 8:05 AM | 0706641-001E | 06/25/07 2:25 PM | 06/25/07 | 06/27/07 12:06 AM |
| 0706641-001E | 06/25/07 2:25 PM | 06/25/07 | 06/27/07 12:14 AM | 0706641-002E | 06/25/07 2:45 PM | 06/25/07 | 06/26/07 8:38 AM |
| 0706641-002E | 06/25/07 2:45 PM | 06/25/07 | 06/27/07 12:22 AM | | | | |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

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# QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0706641

| EPA Method SW8021B/8015Cm | Extraction SW5030B | | | | BatchID: 28908 | | | | Spiked Sample ID: 0706641-002A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acceptance Criteria (%) | | | |
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| TPH(btex)£ | ND | 60 | 95.4 | 105 | 9.84 | 94 | 77.7 | 19.0 | 70 - 130 | 30 | 70 - 130 | 30 |
| MTBE | ND | 10 | 87.5 | 77.4 | 12.3 | 85.9 | 89.4 | 3.92 | 70 - 130 | 30 | 70 - 130 | 30 |
| Benzene | ND | 10 | 90.2 | 94.1 | 4.32 | 93 | 93.4 | 0.422 | 70 - 130 | 30 | 70 - 130 | 30 |
| Toluene | ND | 10 | 91 | 95.1 | 4.32 | 93.3 | 93.9 | 0.705 | 70 - 130 | 30 | 70 - 130 | 30 |
| Ethylbenzene | ND | 10 | 95.2 | 98.5 | 3.45 | 95.7 | 97.9 | 2.27 | 70 - 130 | 30 | 70 - 130 | 30 |
| Xylenes | ND | 30 | 107 | 107 | 0 | 107 | 110 | 3.08 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS: | 89 | 10 | 91 | 92 | 0.756 | 93 | 92 | 0.789 | 70 - 130 | 30 | 70 - 130 | 30 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 28908 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 0706641-001A | 06/25/07 2:25 PM | 06/28/07 | 06/28/07 2:31 PM | 0706641-002A | 06/25/07 2:45 PM | 06/26/07 | 06/26/07 10:04 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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QA/QC Officer

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# QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0706641

| EPA Method SW8260B | Extraction SW5030B | | | | BatchID: 28928 | | | | Spiked Sample ID: 0706641-002C | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acceptance Criteria (%) | | | |
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| Methyl-t-butyl ether (MTBE) | ND | 10 | 104 | 107 | 2.53 | 117 | 115 | 1.28 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS1: | 100 | 10 | 99 | 98 | 1.51 | 100 | 98 | 2.47 | 70 - 130 | 30 | 70 - 130 | 30 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 28928 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 0706641-001C | 06/25/07 2:25 PM | 06/27/07 | 06/27/07 6:18 AM | 0706641-002C | 06/25/07 2:45 PM | 06/26/07 | 06/26/07 2:49 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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# QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

**Test Method: pH** **Matrix: W** **WorkOrder: 0706641**

Method Name: SM4500H+B Units ±, pH units @ °C BatchID: 28936

| SampleID | Sample | DF | Dup / Ser. Dil. | DF | RD | Acceptance Criteria |
|---|---|---|---|---|---|---|
| 0706641-001E | 6.98 @ 19.8°C | 1 | 6.97 @ 20.2°C | 1 | 0.01 | ±0.02 |
| 0706641-002E | 7.17 @ 21.8°C | 1 | 7.16 @ 22.4°C | 1 | 0.01 | ±0.02 |

BATCH 28936 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 0706641-001E | 06/25/07 2:25 PM | 06/25/07 | 06/25/07 7:50 PM | 0706641-002E | 06/25/07 2:45 PM | 06/25/07 | 06/25/07 8:00 PM |

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

RD = Absolute Value {Sample - Duplicate}; RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2].

DHS ELAP Certification N° 1644

QA/QC Officer

Lancaster Laboratories

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# Analysis Report

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 1047787. Samples arrived at the laboratory on Friday, July 20, 2007. The PO# for this group is 0015014975 and the release number is SINHA.

| Client Description | | | Lancaster Labs Number |
|---|---|---|---|
| INF-W-070717 | Grab | Water | 5107635 |
| MID-W-070717 | Grab | Water | 5107636 |
| EFF-W-070717 | Grab | Water | 5107637 |
| EFF-W-070717 | Grab | Water | 5107638 |

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CRA | Attn: Charlotte Evans |
| ELECTRONIC COPY TO | CRA | Attn: Matthew Lundberg |

Lancaster Laboratories

# Analysis Report

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

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

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

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

# Analysis Report



**Lancaster Laboratories Sample No. WW 5107635**

**INF-W-070717 Grab Water**
**Facility# 90260 CETE**
**21995 Foothill-Hayward T0600100315 INF**
Collected:07/17/2007 10:50 by MJ

Account Number: 10880

Submitted: 07/20/2007 09:10
Reported: 08/01/2007 at 12:14
Discard: 09/01/2007

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

260-I

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01729 | TPH-GRO - Waters | | | | | |
| 01730 | TPH-GRO - Waters | n.a. | 42,000. | 2,500. | ug/l | 50 |
| | The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | | | | | |
| 05879 | BTEX | | | | | |
| 02161 | Benzene | 71-43-2 | 1,700. | 25. | ug/l | 50 |
| 02164 | Toluene | 108-88-3 | 6,300. | 25. | ug/l | 50 |
| 02166 | Ethylbenzene | 100-41-4 | 1,400. | 25. | ug/l | 50 |
| 02171 | Total Xylenes | 1330-20-7 | 6,400. | 75. | ug/l | 50 |
| 02309 | MTBE by GC/MS (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | 57. | 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 No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01729 | TPH-GRO - Waters | TPH GRO SW-846 8015B mod | 1 | 07/24/2007 21:01 | Martha L Seidel | 50 |
| 05879 | BTEX | SW-846 8020A | 1 | 07/24/2007 21:01 | Martha L Seidel | 50 |
| 02309 | MTBE by GC/MS (water) | SW-846 8260B | 1 | 07/26/2007 15:31 | Anita M Dale | 10 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 07/24/2007 21:01 | Martha L Seidel | 50 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 07/26/2007 15:31 | Anita M Dale | 10 |

Lancaster Laboratories

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

# Analysis Report



**Lancaster Laboratories Sample No. WW 5107636**

**MID-W-070717 Grab Water**
**Facility# 90260 CETE**
**21995 Foothill-Hayward T0600100315 MID**
Collected:07/17/2007 10:45 by MJ

Account Number: 10880

Submitted: 07/20/2007 09:10
Reported: 08/01/2007 at 12:14
Discard: 09/01/2007

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

260-M

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01729 | TPH-GRO - Waters | | | | | |
| 01730 | TPH-GRO - Waters | n.a. | N.D. | 50. | ug/l | 1 |
| | The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start 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.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01729 | TPH-GRO - Waters | TPH GRO SW-846 8015B mod | 1 | 07/24/2007 15:49 | Martha L Seidel | 1 |
| 05879 | BTEX | SW-846 8020A | 1 | 07/24/2007 15:49 | Martha L Seidel | 1 |
| 02309 | MTBE by GC/MS (water) | SW-846 8260B | 1 | 07/31/2007 04:47 | Kelly E Brickley | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 07/24/2007 15:49 | Martha L Seidel | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 07/31/2007 04:47 | Kelly E Brickley | 1 |

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# Analysis Report



**Lancaster Laboratories Sample No. WW 5107637**

**EFF-W-070717 Grab Water**
**Facility# 90260 CETE**
**21995 Foothill-Hayward T0600100315 EFF**
Collected:07/17/2007 10:40 by MJ

Account Number: 10880

Submitted: 07/20/2007 09:10
Reported: 08/01/2007 at 12:14
Discard: 09/01/2007

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

260-E

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01729 | TPH-GRO - Waters | | | | | |
| 01730 | TPH-GRO - Waters | n.a. | N.D. | 50. | ug/l | 1 |
| | The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start 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.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01729 | TPH-GRO - Waters | TPH GRO SW-846 8015B mod | 1 | 07/24/2007 16:11 | Martha L Seidel | 1 |
| 05879 | BTEX | SW-846 8020A | 1 | 07/24/2007 16:11 | Martha L Seidel | 1 |
| 02309 | MTBE by GC/MS (water) | SW-846 8260B | 1 | 07/26/2007 16:19 | Anita M Dale | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 07/24/2007 16:11 | Martha L Seidel | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 07/26/2007 16:19 | Anita M Dale | 1 |

Lancaster Laboratories

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# Analysis Report



**Lancaster Laboratories Sample No. WW 5107638**

**EFF-W-070717** **Grab** **Water**
**Facility# 90260** **CETE**
**21995 Foothill-Hayward** **T0600100315** **EFF**
Collected:07/17/2007 10:35 by MJ

Account Number: 10880

Submitted: 07/20/2007 09:10
Reported: 08/01/2007 at 12:14
Discard: 09/01/2007

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00200 | pH | n.a. | 7.1 | 0.010 | Std. Units | 1 |

State of California Lab Certification No. 2116
The temperature of the pH bottle for the EFF sample upon receipt at the lab was 8.1C.

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 No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00200 | pH | SM20 4500 H/B | 1 | 07/24/2007 08:00 | Yolunder Y Bunch | 1 |

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# Analysis Report



## Quality Control Summary

Client Name: ChevronTexaco
Group Number: 1047787
Reported: 08/01/07 at 12:14 PM

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 Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: 07204A53A | Sample number(s): 5107635-5107637 | | | | | | | |
| TPH-GRO - Waters | N.D. | 50. | ug/l | 123 | 120 | 75-135 | 3 | 30 |
| Benzene | N.D. | 0.5 | ug/l | 105 | 104 | 86-119 | 1 | 30 |
| Toluene | N.D. | 0.5 | ug/l | 112 | 110 | 82-119 | 1 | 30 |
| Ethylbenzene | N.D. | 0.5 | ug/l | 111 | 111 | 81-119 | 0 | 30 |
| Total Xylenes | N.D. | 1.5 | ug/l | 113 | 113 | 82-120 | 0 | 30 |
| Batch number: 07205020001A | Sample number(s): 5107638 | | | | | | | |
| pH | | | | 100 | | 99-101 | | |
| Batch number: D072111AA | Sample number(s): 5107636 | | | | | | | |
| Methyl Tertiary Butyl Ether | N.D. | 0.5 | ug/l | 98 | | 73-119 | | |
| Batch number: Z072072AA | Sample number(s): 5107635,5107637 | | | | | | | |
| Methyl Tertiary Butyl Ether | N.D. | 0.5 | ug/l | 105 | | 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 %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 07204A53A | Sample number(s): 5107635-5107637 UNSPK: P107921, P107922 | | | | | | | | |
| TPH-GRO - Waters | 146 | | 63-154 | | | | | | |
| Benzene | 100 | | 78-131 | | | | | | |
| Toluene | 107 | | 78-129 | | | | | | |
| Ethylbenzene | 110 | | 75-133 | | | | | | |
| Total Xylenes | 111 | | 84-131 | | | | | | |
| Batch number: 07205020001A | Sample number(s): 5107638 BKG: P107574 | | | | | | | | |
| pH | | | | | | 7.5 | 7.5 | 0 | 1 |
| Batch number: D072111AA | Sample number(s): 5107636 UNSPK: P110192 | | | | | | | | |
| Methyl Tertiary Butyl Ether | 106 | 101 | 69-127 | 5 | 30 | | | | |
| Batch number: Z072072AA | Sample number(s): 5107635,5107637 UNSPK: P107696 | | | | | | | | |
| Methyl Tertiary Butyl Ether | 108 | 108 | 69-127 | 0 | 30 | | | | |

## Surrogate Quality Control

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

## Quality Control Summary

Client Name: ChevronTexaco
Group Number: 1047787
Reported: 08/01/07 at 12:14 PM

### 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: 07204A53A

| | Trifluorotoluene-F | Trifluorotoluene-P |
|---|---|---|
| 5107635 | 81 | 90 |
| 5107636 | 84 | 90 |
| 5107637 | 85 | 91 |
| Blank | 83 | 90 |
| LCS | 89 | 91 |
| LCSD | 89 | 90 |
| MS | 91 | 91 |
| Limits: | 63-135 | 69-129 |

Analysis Name: MTBE by GC/MS (water)
Batch number: D072111AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 5107636 | 102 | 91 | 101 | 94 |
| Blank | 103 | 94 | 100 | 97 |
| LCS | 99 | 93 | 102 | 105 |
| MS | 98 | 91 | 103 | 104 |
| MSD | 96 | 89 | 101 | 102 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

Analysis Name: MTBE by GC/MS (water)
Batch number: Z072072AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 5107635 | 99 | 100 | 101 | 98 |
| 5107637 | 99 | 100 | 102 | 102 |
| Blank | 100 | 101 | 99 | 96 |
| LCS | 100 | 104 | 100 | 100 |
| MS | 101 | 104 | 102 | 101 |
| MSD | 99 | 102 | 101 | 102 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

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

# Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

071807-01

For Lancaster Laboratories use only
Acct. #: 10880 Group # 1047787 Sample #: 5107635-38

SCR#:

Facility #: 9-0260
Site Address: 21995 Foothill Blvd, Hayward, California
Chevron PM: Satya Sinha Lead Consultant: Conestoga-Rovers& Associates
Consultant/Office: CRA 5900 Hollis St., Ste A, Emeryville, CA 94608
Consultant Prj. Mgr.: Charlotte Evans
Consultant Phone #: 510-420-3351 Fax #: 510-420-9170
Sampler: Mark Johnson
Service Order #: ☐ Non SAR:

| Field Point Name | Matrix | Repeat Sample | Top Depth | Year Month Day | Time Collected | New Field Pt. | Grab | Composite | Total Number of Containers | BTEX by 8020 | TPHg by 8015 | Cyanide (EPA 335.4) | pH (EPA 150.1) | 13 Priority Pollutant Metals (EPA 200) | (An, Ar, Be, Ca, Ch, Cu, Pb, M, Ni, Se, Si, Th, Zi) | Total Phenols (EPA 420.1) | MTBE by 8260B | | | | | Preservation Codes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INF | W | | NA | 2007 / 07 / 17 | 10:30 | No | X | | 6 | X | X | | | | | | X | | | | | VOAs with HCl |
| MID | W | | NA | 2007 / 07 / 17 | 10:45 | No | X | | 6 | X | X | | | | | | X | | | | | VOAS with HCl |
| EFF | W | | NA | 2007 / 07 / 17 | 10:40 | No | X | | 6 | X | X | | | | | | X | | | | | VOAs with HCl |
| EFF | W | | NA | 2007 / 07 / 17 | 10:35 | No | X | | 1 | | | | X | | | | | | | | | 500 ml unpreserved - Poly |

**Preservative Codes**
H = HCl T = Thiosulfate
N = $HNO_3$ B = NaOH
S = $H_2SO_4$ O = Other

☐ Must meet lowest detection limit possible for 8260 compounds

**Comments / Remarks**

**Email results to:**
mlundberg@craworld.com and cevans@craworld.com

**email edf to:**
chevronedf@craworld.com

**Turnaround Time Requested (TAT)** (please circle)
24 hour 72 hour 48 hour
STD 4 day 5 day

**Data Package Options** (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Mark Johnson | 7/18/07 | 1250 | Received by: Cindee Amaya | 7-18-07 | 1250 |
| Relinquished by: Cindee Amaya | 7/18/07 | 1530 | Received by: FedEx | 7/19/07 | |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| Relinquished by Commercial Carrier: UPS (FedEx) Other | | | Received by: Kathy Binkley | 7-20-07 | 0910 |
| Temperature Upon Receipt 1.7°-8.1°C Ranges | | | Custody Seals Intact? (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 |
| **C** | 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) | **l** | 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 limit of quantitation, 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.

**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:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quatitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **J** | Estimated value |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike amount not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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.