



541/464

3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670-6021
U.S.A.
~~916/638-2085~~
FAX: 916/638-8385

November 20, 2001

NOV 27 2001

Mr. Barney Chan
Alameda County Health Care Service,
Department of Environmental Health
1153 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: *Interim Corrective Action Plan and Enhanced Groundwater Recovery Results
Second and Third Quarter 2001,*
Chevron Service Station No. 9-1851
451 Hegenberger Road
Oakland, California
Delta Project No. DG91-851

Dear Mr. Chan:

Delta Environmental Consultants, Inc. (Delta) has been authorized by Chevron Products Company (Chevron) to conduct periodic groundwater over-purge events at the above site. The over-purge events were conducted as part of *Delta's Interim Corrective Action Plan*, dated August 1, 2000. The location of the site is shown on Figure 1 and the site features are illustrated on Figure 2.

This report presents the results of the groundwater over-purge events conducted on May 3 June 6 and August 30, 2001, which included groundwater elevation measurements and sample collection for chemical analysis of dissolved petroleum hydrocarbon constituents. Field work was conducted at the site in accordance with field methods and procedures presented in Enclosure A.

Groundwater Elevation Measurements

Groundwater elevations were measured in monitoring wells MW-1 through MW-7. In addition, the wells were checked for the presence of separate-phase hydrocarbons before and after each over-purge event. Groundwater elevations, and separate-phase hydrocarbon thickness are presented in Table 1. Measurements recorded on August 30, 2001 were used to construct the before and after over-purge groundwater elevation contour maps shown on Figures 3 and 4, respectively.

Groundwater Sampling and Analytical Results

Groundwater samples were collected from monitoring wells MW-4 and MW-7 before and after each over-purge event. The groundwater samples were submitted to California-certified laboratory for analyses of benzene, toluene, ethylbenzene and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), and total purgeable hydrocarbons (TPH) as gasoline using EPA Method 8260B. Cumulative analytical results are compiled in Table 1, and copies of laboratory analytical reports with chain-of-custody documentation for the second and third quarter sampling events are included in Enclosure B.

Mr. Barney Chan
Alameda County Health Care Services
November 20, 2001
Page 2

Volume of TPH as Gasoline Removed

Approximately 1,108 gallons of groundwater was over-purged from monitoring wells MW-4 and MW-7 during the second and third quarter 2001. Based on average concentrations of TPH as gasoline reported in groundwater samples collected from MW-4 and MW-7 during each event, it is estimated that approximately 0.000551 gallon of TPH as gasoline was removed from soil and groundwater in the vicinity of the underground storage tank basin. Cumulative volumes of groundwater and TPH as gasoline removed from the site during the over-purge events are compiled in Table 2.

If you have questions or comments regarding this report, please contact me at (916) 536-2623. OK #

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.



Benjamin I. Heningburg
Project Manager



Steven W. Meeks, P.E.
California Registered Civil Engineer No. C057461

BIH (Lrp005.1851)
Enclosures

cc: Tom Bauhs – Chevron Product Company
Jim Brownell – Delta Environmental Consultants, Inc.



TABLE 1

GROUNDWATER ANALYTICAL RESULTS

Chevron Service Station No. 9-1851
 451 Hegenberger Road
 Oakland, California

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW-4-853	05/03/01	<2.5	<2.5	<2.5	<2.5	491	2,020/4,270 ^a
MW-4-1505	05/03/01	<2.5	<2.5	<2.5	<2.5	370	3,330/4,250 ^a
MW-7-830	05/03/01	<0.5	<0.5	<0.5	<0.5	191	1070/1190 ^a
MW-7-1505	05/03/01	0.619	<0.5	1.65	0.961	$\frac{201}{319}$	472/647 ^a
MW-4-745	06/11/01	<5.0	<5.0	<5.0	<5.0	520	4,000/3,700 ^a
MW-4-1500	06/11/01	<5.0	<5.0	<5.0	<5.0	$\frac{442}{258}$ \times 500	5,900/3,500 ^a
MW-7-730	06/11/01	<5.0	<5.0	<5.0	<5.0	130	730/690 ^a
MW-7-1510	06/11/01	<5.0	<5.0	<5.0	<5.0	$\frac{422}{258}$ 130	590/560 ^a
MW-4-825	08/30/01	<1.0	<1.0	<1.0	<1.0	720	3,000
MW-4-1510	08/30/01	<1.0	<1.0	<1.0	<1.0	590	2,600
MW-7-815	08/30/01	<1.0	<1.0	<1.0	<1.0	140	400
MW-7-1520	08/30/01	<1.0	<1.0	<1.0	<1.0	330	97

$\times = 319$
 $\times = 258$
 $\times = 258$
 $\times = 445$

^a = EPA Method by 8260

$$\frac{200}{1108} (.319) + \frac{508}{1108} (258) + \frac{400}{1108} (445) + 118 + 160 = 337$$

TABLE 2

CUMULATIVE VOLUME OF GROUNDWATER AND TPH AS GASOLINE REMOVED

Chevron Service Station No. 9-1851
451 Hegenberger Road
Oakland, California

1 Kg = 2.216 lb
1 lb = .454 Kg
= 454g

Date	Extracted Groundwater Per Event (gallons)	Cumulative Groundwater Volume (gallons)	Extracted TPHg Volume Per Event* (gallons)	Extracted TPHg Volume (gallons)
5/3/2001	200	200	0.000086	0.000086
6/6/2001	508	708	0.000222	0.000308
8/30/2001	400	1,108	0.000243	0.000551

eg. $0.000551 = (1.1 \times 10^{-3}) \times (1.36) [\text{conc}]$

↑
368 ppm

* $V_{TPH} = V_{gw} [TPH] \rho_{gw} / \rho_{TPH}$

Where:

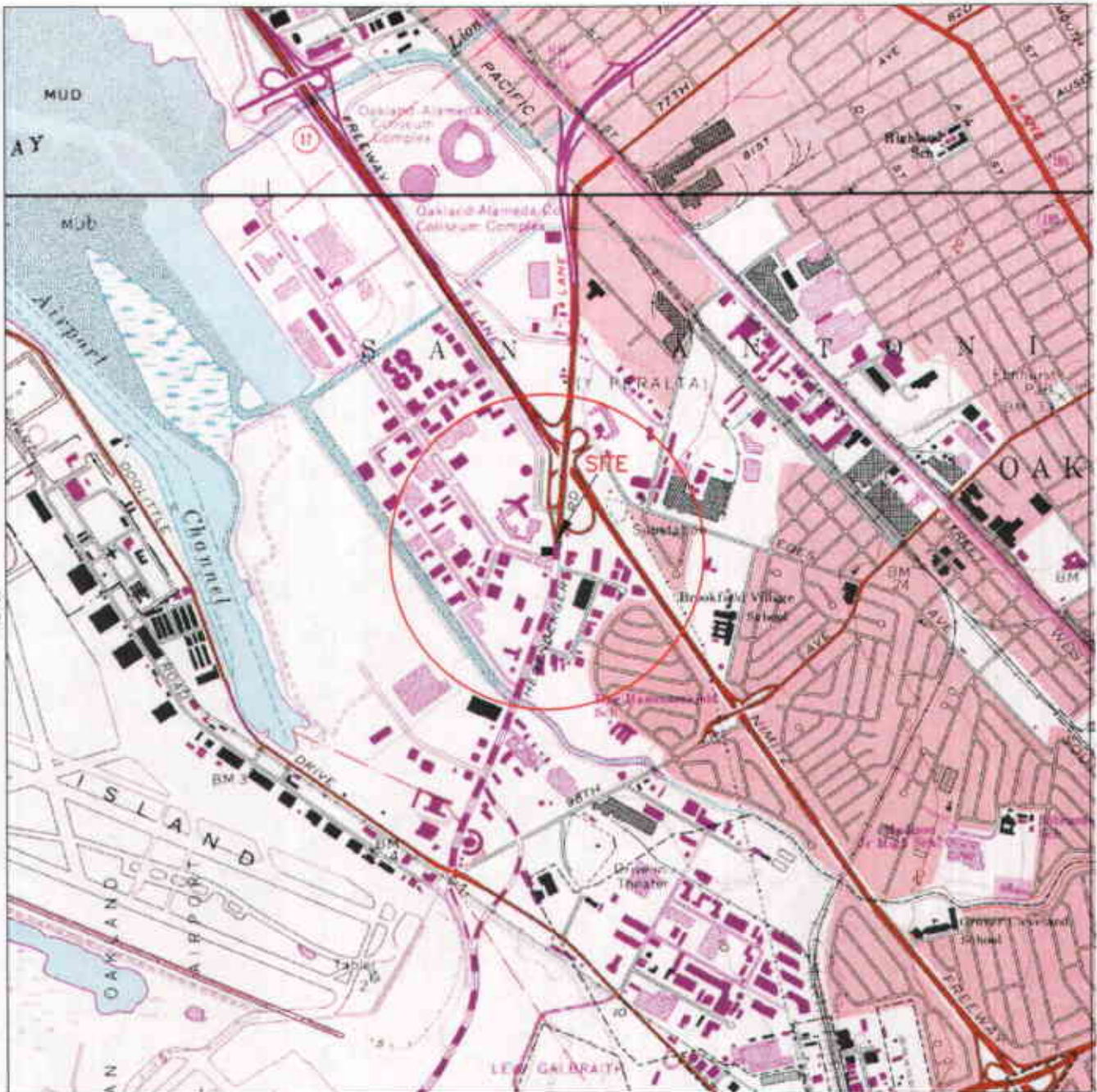
- V_{TPH} = Volume of TPH as gasoline in gallons
- V_{gw} = Volume of groundwater in Million Gallons
- $[TPH]$ = Average TPH as gasoline concentrations in mg/l
- ρ_{gw} = density of groundwater = 8.34 lbs/gal.
- ρ_{TPH} = density of TPH as gasoline = 6.1 lbs/gal.

$V_{TPH} = (10^6 \text{ gal}) \left(\frac{10^{-6} \text{ ppm}}{\text{mg/l}} \right) \frac{8.3 \text{ lbs/gal}}{6.1 \text{ lbs/gal}}$ ✓

reciprocal

$\cancel{\text{gal}} \times \frac{\cancel{\text{lb}}}{\cancel{\text{gal}}} \times \frac{\cancel{\text{mg}}}{\cancel{\text{L}}} \times \frac{\cancel{\text{g}}}{\cancel{\text{mg}}} \times \frac{\cancel{\text{lb}}}{\cancel{\text{g}}} \times \frac{\text{gal}}{\text{lb}}$

$1108 \times 3.8 \times .37 \times 10^{-3} \times \frac{1}{454} \times .16 \approx 0.00055 \text{ gal}$ ✓



GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 SAN LEANDRO, CA.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1980



QUADRANGLE LOCATION



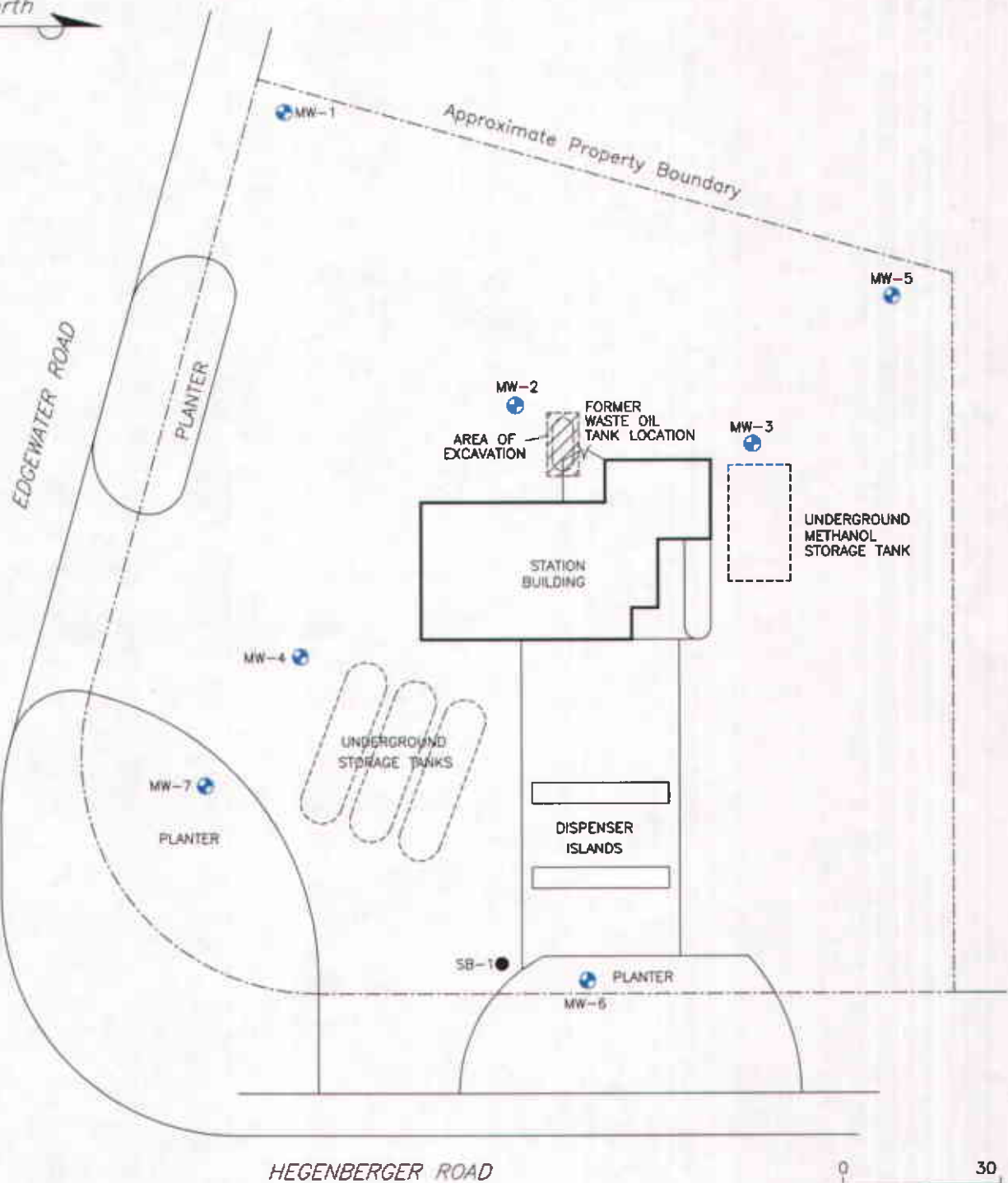
SCALE 1:24,000

FIGURE 1
 SITE TOPOGRAPHIC MAP
 CHEVRON STATION NO. 9-1851
 451 HEGENBERGER ROAD
 OAKLAND, CA.

PROJECT NO. -	DRAWN BY TLA 10/24/00
FILE NO. -	PREPARED BY TLA
REVISION NO. 1	REVIEWED BY



North



EXPLANATION

- ⊕ MW-1 MONITORING WELL LOCATION
- SB-1 SOIL BORING LOCATION

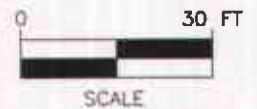


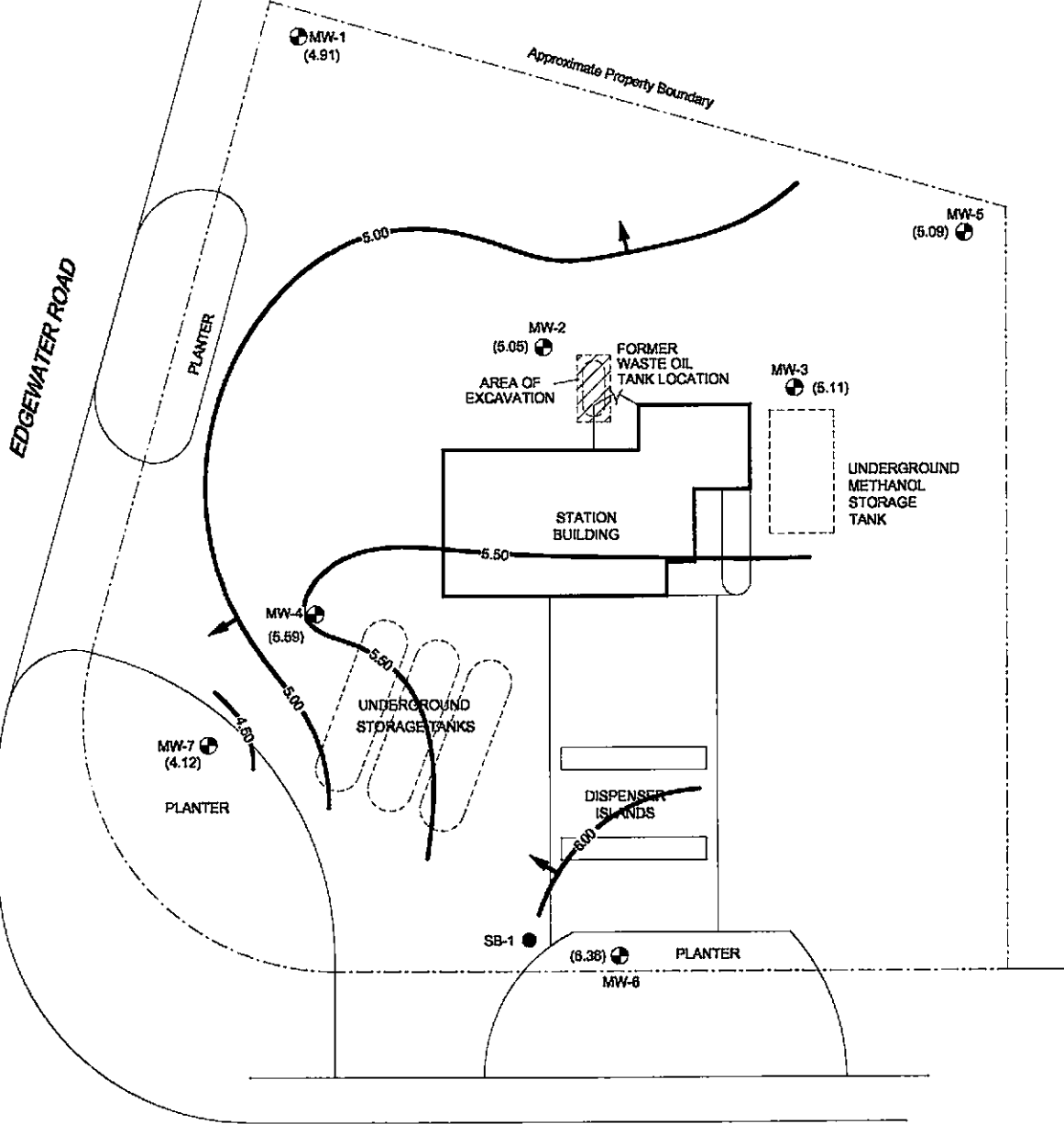
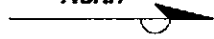
FIGURE 2
SITE MAP

CHEVRON STATION NO. 9-1851
451 HEGENBERGER ROAD
OAKLAND, CA.

PROJECT NO. DG94-1851	DRAWN BY TLA 10/24/00
FILE NO. DG9418511	PREPARED BY BIH
REVISION NO. 2	REVIEWED BY



North



HEGENBERGER ROAD



EXPLANATION

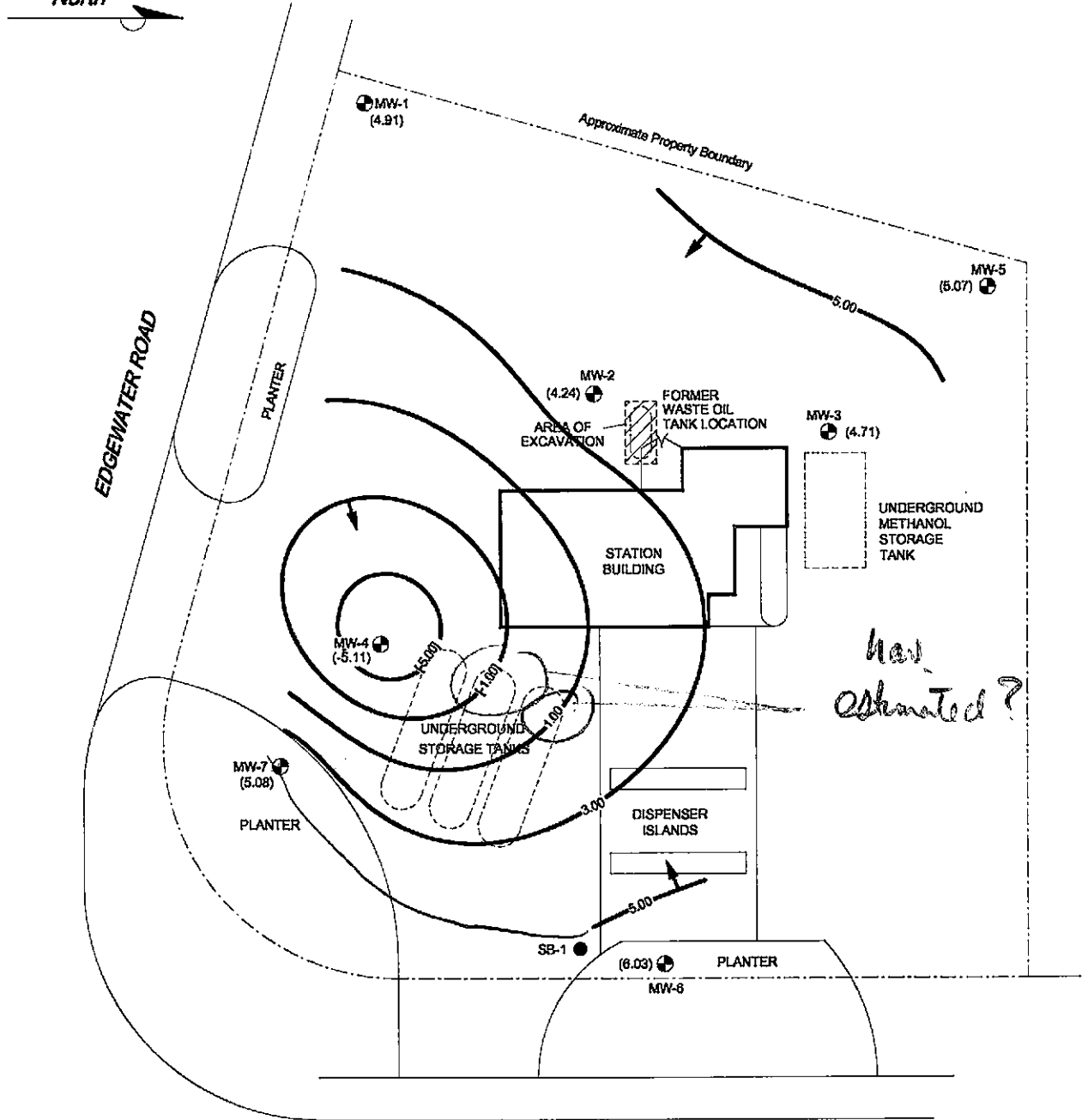
- MW-1 MONITORING WELL LOCATION
- SB-1 SOIL BORING LOCATION
- (4.91) GROUND WATER ELEVATION IN FEET RELATIVE TO AN ASSUMED BENCH MARK
- 4.50— INFERRED WATER TABLE CONTOUR IN FEET RELATIVE TO AN ASSUMED BENCH MARK
- ➔ INFERRED GROUND WATER FLOW DIRECTION

FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
PRE PURGE - AUGUST 30, 2001
CHEVRON STATION NO. 9-1851
451 HEGENBERGER ROAD
OAKLAND, CA.

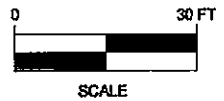
PROJECT NO. DG91-851	DRAWN BY M.L. 11/20/01
FILE NO. DG918511	PREPARED BY BIH
REVISION NO. 2	REVIEWED BY



North



HEGENBERGER ROAD




EXPLANATION

- MW-1 MONITORING WELL LOCATION
- SB-1 SOIL BORING LOCATION
- (4.91) GROUND WATER ELEVATION IN FEET RELATIVE TO AN ASSUMED BENCH MARK
- 4.50- INFERRED WATER TABLE CONTOUR IN FEET RELATIVE TO AN ASSUMED BENCH MARK
- ➔ INFERRED GROUND WATER FLOW DIRECTION

FIGURE 4
GROUNDWATER ELEVATION CONTOUR MAP
POST PURGE - AUGUST 30, 2001
CHEVRON STATION NO. 9-1851
451 HEGENBERGER ROAD
OAKLAND, CA.

PROJECT NO. DG91-851	DRAWN BY M.L. 11/20/01
FILE NO. DG918511	PREPARED BY BIH
REVISION NO. 2	REVIEWED BY



Delta
Environmental
Consultants, Inc.

FIELD METHODS AND PROCEDURES

The following describes field procedures that were completed by Delta personnel in the performance of the tasks involved with this project.

1.0 GROUNDWATER DEPTH ASSESSMENT

Depth to groundwater was measured to the nearest 0.01 foot using an electronic hand held water level indicator. The tip of the probe was examined to assess whether liquid-phase petroleum hydrocarbons or hydrocarbon sheen was present. The depth to groundwater was measured from a marked reference point at the top of each well riser. Each reference point has been surveyed relative to a mean sea level or temporary benchmark for correlation of groundwater levels at the site.

2.0 MONITORING WELL PURGING AND SAMPLING

Groundwater was purged from the wells by connecting a manifold vacuum hose, slip-cap and drop tube assembly to the wellhead. Once the assembly was connected, approximately 15 inches of mercury vacuum was applied to the wellhead for enhanced fluid recovery. After the water levels within the wells were allowed to stabilize, a sample was collected with a dedicated, clean, disposable plastic bailer. Samples were sealed in air tight vials, packed on ice, and transported to a California-certified laboratory to be analyzed within the EPA-specified holding time for requested analyses.

Each sample container submitted for analysis had a label affixed to identify the job number, sample date, time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, were recorded on sampling information sheets.

A chain-of-custody form was used to record possession of the sample from the time of collection to its arrival at the laboratory. When the samples were shipped, the person in custody of them relinquished the samples by signing the chain-of-custody form and noting the time. The sample control officer at the laboratory verified sample integrity and confirmed that it was collected in the proper container, preserved correctly, and that there was an adequate volume for analysis. The laboratory then assigns each sample with a unique identification number that will designate a given sample until it is properly destroyed.

ENCLOSURE B

Copies of Certified Laboratory Analytical Reports

S



ANALYTICAL RESULTS

Prepared for:

Chevron Products Company
6001 Bollinger Canyon Road
Building L, PO Box 6004
San Ramon CA 94583-0904

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 776789. Samples arrived at the laboratory on Saturday, September 01, 2001. The PO# for this group is 99011184 and the release number is BAUHS.

Table with 2 columns: Client Description and Lancaster Labs Number. Rows include MW-4 and MW-7 Grab Water Samples with corresponding lab numbers.

1 COPY TO Delta Environmental

Attn: Mr. Ben Heningburg

Questions? Contact your Client Services Representative
Teresa M. Lis at (717) 656-2300.

Respectfully Submitted,

Handwritten signature of Victoria M. Martell

Victoria M. Martell
Chemist



Lancaster Laboratories Sample No. **WW 3680160**

Collected: 08/30/2001 08:25 by BB

Account Number: 10900

Submitted: 09/01/2001 10:00
 Reported: 09/11/2001 at 15:33
 Discard: 10/12/2001
 MW-4 Grab Water Sample

Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

Facility# 9-1851
 CHEVRON: 451 Hegenberger Rd - Oakland, CA

4MMWW

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO N. California (waters) 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. Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.	n.a.	0.72	0.020	mg/l	1
02300	UST-Unleaded Waters by 8260B					
02010	Methyl t-butyl ether	1634-04-4	3,000.	25.	ug/l	25
05401	Benzene	71-43-2	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	1.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	1.	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO N. California (waters)	N. CALIF. LUFT Gasoline Method	1	09/06/2001 13:30	John B. Kiser	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/05/2001 22:16	Susan A. McMahon-Luu	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/06/2001 07:41	Kenneth L. Boley	25
01146	GC VOA Water Prep	SW-846 5030B	1	09/06/2001 13:30	John B. Kiser	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/05/2001 22:16	Susan A. McMahon-Luu	n.a.



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3680161

Collected: 08/30/2001 08:15 by BB

Account Number: 10900

Submitted: 09/01/2001 10:00
 Reported: 09/11/2001 at 15:33
 Discard: 10/12/2001
 MW-7 Grab Water Sample

Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

Facility# 9-1851
 CHEVRON: 451 Hegenberger Rd - Oakland, CA

LLL77

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO N. California (waters) 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. Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.	n.a.	0.14	0.020	mg/l	1
02300	UST-Unleaded Waters by 8260B					
02010	Methyl t-butyl ether	1634-04-4	400.	5.	ug/l	5
05401	Benzene	71-43-2	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	1.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	1.	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO N. California (waters)	N. CALIF. LUFT Gasoline Method	1	09/06/2001 14:02	John B. Kiser	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/05/2001 22:41	Susan A. McMahon-Luu	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/06/2001 08:05	Kenneth L. Boley	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/06/2001 14:02	John B. Kiser	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/05/2001 22:41	Susan A. McMahon-Luu	n.a.



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3680162

Collected: 08/30/2001 15:10 by BB

Account Number: 10900

Submitted: 09/01/2001 10:00
 Reported: 09/11/2001 at 15:33
 Discard: 10/12/2001
 MW-4 Grab Water Sample

Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

Facility# 9-1851
 CHEVRON: 451 Hegenberger Rd - Oakland, CA

4BHHL

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO N. California (waters) 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. Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.	n.a.	0.59	0.020	mg/l	1
02300	UST-Unleaded Waters by 8260B					
02010	Methyl t-butyl ether	1634-04-4	2,600.	25.	ug/l	25
05401	Benzene	71-43-2	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	1.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	1.	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO N. California (waters)	N. CALIF. LUFT Gasoline Method	1	09/06/2001 14:34	John B. Kiser	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/05/2001 23:06	Susan A. McMahon-Luu	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/06/2001 08:29	Kenneth L. Boley	25
01146	GC VOA Water Prep	SW-846 5030B	1	09/06/2001 14:34	John B. Kiser	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/05/2001 23:06	Susan A. McMahon-Luu	n.a.



Lancaster Laboratories, inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3680163

Collected: 08/30/2001 15:20 by BB

Account Number: 10900

Submitted: 09/01/2001 10:00
 Reported: 09/11/2001 at 15:33
 Discard: 10/12/2001
 MW-7 Grab Water Sample

Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

Facility# 9-1851
 CHEVRON: 451 Hegenberger Rd - Oakland, CA

7FAC1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO N. California (waters)	n.a.	0.097	0.020	mg/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. Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
02300	UST-Unleaded Waters by 8260B					
02010	Methyl t-butyl ether	1634-04-4	330.	5.	ug/l	5
05401	Benzene	71-43-2	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	1.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	1.	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO N. California (waters)	N. CALIF. LUFT Gasoline Method	1	09/06/2001 15:06	John B. Kiser	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/05/2001 23:30	Susan A. McMahon-Luu	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/06/2001 08:54	Kenneth L. Boley	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/06/2001 15:06	John B. Kiser	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/05/2001 23:30	Susan A. McMahon-Luu	n.a.



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681

Chevron Western Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. #: 10900 Sample #: 3680160-63 SCR#: _____

Consultant/Office: DELTA Environmental Consultants, Inc.
 Consultant Prj. Mgr.: Ben Heningburg Prj. #: Chevron 9-1851
 Consultant Phone #: 916-536-2623 Fax #: 916-638-8389
 Service Order #: _____
 Site Address: 451 Hegenberger Rd, Oakland State: California
 Sampler: Brett Bardsley
 Chevron PM: Tom Bauhs
 Facility # 9-1851

Analyses Requested List total number of containers in the box under each analysis.

Preservation Codes	
BTEX 8021 <input type="checkbox"/> + MTBE <input type="checkbox"/>	TPH 8015 MOD GRO <input type="checkbox"/> DRO <input type="checkbox"/>
8260 BTEX + Oxygenates	Ethanol 8015 <input type="checkbox"/> Methanol 8015 <input type="checkbox"/>
8260 Confirmation MTBE	NWTPH Gx <input type="checkbox"/> Dx <input type="checkbox"/>
Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>	TPH AZ
STEX/MTBE only 8260B	

Preservative Codes

H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

J value reporting needed.
 * Specify special detection limits/reporting lists below.

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix			Total Number of Containers	Analyses Requested								Preservative Codes	
					Soil	Water	Oil <input type="checkbox"/> Air <input type="checkbox"/>		BTEX 8021 <input type="checkbox"/> + MTBE <input type="checkbox"/>	TPH 8015 MOD GRO <input type="checkbox"/> DRO <input type="checkbox"/>	8260 BTEX + Oxygenates	Ethanol 8015 <input type="checkbox"/> Methanol 8015 <input type="checkbox"/>	8260 Confirmation MTBE	NWTPH Gx <input type="checkbox"/> Dx <input type="checkbox"/>	Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>	TPH AZ		STEX/MTBE only 8260B
MW-4	8/30/01	825	X			X		4	X								X	H
MW-7	8/30/01	815	X			X		4	X								X	I
MW-4	8/30/01	1510	X			X		4	X								X	I
MW-7	8/30/01	1520	X			X		4	X								X	I

Turnaround Time Requested (TAT) (please circle)

STD. TAT 72 hour 48 hour
 24 hour 4 day **10 day**

Relinquished by: Brett Bardsley Date: 8/31/01 Time: 1030 Received by: _____ Date: _____ Time: _____

Data Package Options (please circle if required)

QC Summary Type I - Full
 Type VI (Raw Data) Disk / EDD
 WIP (RWQCB) Standard Format
 Disk _____ Other.

Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____

Relinquished by Commercial Carrier: Received by: [Signature] Date: 9-1-01 Time: noon

UPS **FedEx** Other: _____ Temperature Upon Receipt: 91 °C Custody Seals Intact? Yes **No**

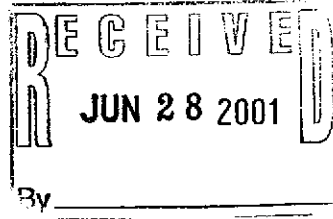


Sequoia Analytical

819 Striker Avenue, Suite 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com

June 25 , 2001

Ben Heningburg
Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova, CA 95670
RE: Chevron 9-1851 / S106176



Enclosed are the results of analyses for samples received by the laboratory on 06/11/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Client Services Representative

CA ELAP Certificate Number 1624





Delta Environmental Consultants(Rancho Cordova 3164 Gold Camp Drive Ste. 200 Rancho Cordova CA, 95670	Project: Chevron 9-1851 Project Number: DG91-851 Project Manager: Ben Heningburg	Reported: 06/25/01 16:42
---	--	-----------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4 (7:45)	S106176-01	Water	06/11/01 07:45	06/11/01 15:30
MW-7 (7:30)	S106176-02	Water	06/11/01 07:30	06/11/01 15:30
MW-4 (15:00)	S106176-03	Water	06/11/01 15:00	06/11/01 15:30
MW-7 (15:10)	S106176-04	Water	06/11/01 15:10	06/11/01 15:30





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: Chevron 9-1851
Project Number: DG91-851
Project Manager: Ben Heningburg

Reported:
06/25/01 16:42

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (7:45) (S106176-01) Water Sampled: 06/11/01 07:45 Received: 06/11/01 15:30									
Purgeable Hydrocarbons	520	500	ug/l	10	1060142	06/18/01	06/18/01	DHS LUFT	
Benzene	ND	5.0	"	"	"	"	"	"	zR-05
Toluene	ND	5.0	"	"	"	"	"	"	zR-05
Ethylbenzene	ND	5.0	"	"	"	"	"	"	zR-05
Xylenes (total)	ND	5.0	"	"	"	"	"	"	zR-05
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92.9 %	60-140		"	"	"	"	
MW-4 (7:45) (S106176-01RE1) Water Sampled: 06/11/01 07:45 Received: 06/11/01 15:30									
Methyl tert-butyl ether	4000	250	ug/l	100	1060142	06/18/01	06/18/01	DHS LUFT	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		96.1 %	60-140		"	"	"	"	
MW-7 (7:30) (S106176-02) Water Sampled: 06/11/01 07:30 Received: 06/11/01 15:30									
Purgeable Hydrocarbons	130	50	ug/l	1	1060142	06/18/01	06/18/01	DHS LUFT	zP-03
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		99.6 %	60-140		"	"	"	"	
MW-7 (7:30) (S106176-02RE1) Water Sampled: 06/11/01 07:30 Received: 06/11/01 15:30									
Methyl tert-butyl ether	730	25	ug/l	10	1060142	06/18/01	06/18/01	DHS LUFT	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.0 %	60-140		"	"	"	"	
MW-4 (15:00) (S106176-03) Water Sampled: 06/11/01 15:00 Received: 06/11/01 15:30									
Purgeable Hydrocarbons	ND	500	ug/l	10	1060143	06/18/01	06/18/01	DHS LUFT	zR-05
Benzene	ND	5.0	"	"	"	"	"	"	zR-05
Toluene	ND	5.0	"	"	"	"	"	"	zR-05
Ethylbenzene	ND	5.0	"	"	"	"	"	"	zR-05
Xylenes (total)	ND	5.0	"	"	"	"	"	"	zR-05
<i>Surrogate: a,a,a-Trifluorotoluene</i>		105 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova 3164 Gold Camp Drive Ste. 200 Rancho Cordova CA, 95670	Project: Chevron 9-1851 Project Number: DG91-851 Project Manager: Ben Heningburg	Reported: 06/25/01 16:42
---	--	-----------------------------

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (15:00) (S106176-03RE1) Water Sampled: 06/11/01 15:00 Received: 06/11/01 15:30									
Methyl tert-butyl ether	5900	250	ug/l	100	1060143	06/18/01	06/18/01	DHS LUFT	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>102 %</i>	<i>60-140</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
MW-7 (15:10) (S106176-04) Water Sampled: 06/11/01 15:10 Received: 06/11/01 15:30									
Purgeable Hydrocarbons	130	50	ug/l	1	1060143	06/18/01	06/18/01	DHS LUFT	zP-03
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>115 %</i>	<i>60-140</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
MW-7 (15:10) (S106176-04RE1) Water Sampled: 06/11/01 15:10 Received: 06/11/01 15:30									
Methyl tert-butyl ether	590	25	ug/l	10	1060143	06/18/01	06/18/01	DHS LUFT	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>106 %</i>	<i>60-140</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: Chevron 9-1851
Project Number: DG91-851
Project Manager: Ben Heningburg

Reported:
06/25/01 16:42

**MTBE Confirmation by EPA Method 8260A
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (7:45) (S106176-01) Water Sampled: 06/11/01 07:45 Received: 06/11/01 15:30									
Methyl tert-butyl ether	3700	100	ug/l	50	1060192	06/22/01	06/22/01	EPA 8260A	
Surrogate: 1,2-DCA-d4		112 %	60-140		"	"	"	"	
MW-7 (7:30) (S106176-02) Water Sampled: 06/11/01 07:30 Received: 06/11/01 15:30									
Methyl tert-butyl ether	690	20	ug/l	10	1060192	06/22/01	06/22/01	EPA 8260A	
Surrogate: 1,2-DCA-d4		112 %	60-140		"	"	"	"	
MW-4 (15:00) (S106176-03) Water Sampled: 06/11/01 15:00 Received: 06/11/01 15:30									
Methyl tert-butyl ether	3500	200	ug/l	100	1060192	06/22/01	06/22/01	EPA 8260A	
Surrogate: 1,2-DCA-d4		113 %	60-140		"	"	"	"	
MW-7 (15:10) (S106176-04) Water Sampled: 06/11/01 15:10 Received: 06/11/01 15:30									
Methyl tert-butyl ether	560	20	ug/l	10	1060192	06/22/01	06/22/01	EPA 8260A	
Surrogate: 1,2-DCA-d4		122 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: Chevron 9-1851
Project Number: DG91-851
Project Manager: Ben Heningburg

Reported:
06/25/01 16:42

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1060142 - EPA 5030B (P/T)

Blank (1060142-BLK1)

Prepared & Analyzed: 06/18/01

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.4		"	10.0		104	60-140			

LCS (1060142-BS1)

Prepared & Analyzed: 06/18/01

Benzene	9.13	0.50	ug/l	10.0		91.3	70-130			
Toluene	9.74	0.50	"	10.0		97.4	70-130			
Ethylbenzene	10.4	0.50	"	10.0		104	70-130			
Xylenes (total)	31.4	0.50	"	30.0		105	70-130			
Methyl tert-butyl ether	8.32	2.5	"	10.0		83.2	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.9		"	10.0		109	60-140			

Matrix Spike (1060142-MS1)

Source: S106025-02

Prepared & Analyzed: 06/18/01

Benzene	8.63	0.50	ug/l	10.0	ND	86.3	60-140			
Toluene	9.26	0.50	"	10.0	ND	92.6	60-140			
Ethylbenzene	9.96	0.50	"	10.0	ND	99.6	60-140			
Xylenes (total)	29.8	0.50	"	30.0	ND	99.3	60-140			
Methyl tert-butyl ether	8.86	2.5	"	10.0	ND	88.6	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.9		"	10.0		109	60-140			

Matrix Spike Dup (1060142-MSD1)

Source: S106025-02

Prepared & Analyzed: 06/18/01

Benzene	8.54	0.50	ug/l	10.0	ND	85.4	60-140	1.05	25	
Toluene	9.06	0.50	"	10.0	ND	90.6	60-140	2.18	25	
Ethylbenzene	9.64	0.50	"	10.0	ND	96.4	60-140	3.27	25	
Xylenes (total)	28.2	0.50	"	30.0	ND	94.0	60-140	5.52	25	
Methyl tert-butyl ether	9.67	2.5	"	10.0	ND	96.7	60-140	8.74	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.6		"	10.0		106	60-140			





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: Chevron 9-1851
Project Number: DG91-851
Project Manager: Ben Henningburg

Reported:
06/25/01 16:42

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1060143 - EPA 5030B (P/T)

Blank (1060143-BLK1)

Prepared & Analyzed: 06/18/01

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>10.0</i>		<i>"</i>	<i>10.0</i>		<i>100</i>	<i>60-140</i>			

LCS (1060143-BS1)

Prepared & Analyzed: 06/18/01

Benzene	8.71	0.50	ug/l	10.0		87.1	70-130			
Toluene	9.78	0.50	"	10.0		97.8	70-130			
Ethylbenzene	9.38	0.50	"	10.0		93.8	70-130			
Xylenes (total)	30.1	0.50	"	30.0		100	70-130			
Methyl tert-butyl ether	9.96	2.5	"	10.0		99.6	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>11.1</i>		<i>"</i>	<i>10.0</i>		<i>111</i>	<i>60-140</i>			

Matrix Spike (1060143-MS1)

Source: S106186-01

Prepared & Analyzed: 06/18/01

Benzene	8.64	0.50	ug/l	10.0	ND	86.4	60-140			
Toluene	9.57	0.50	"	10.0	ND	95.7	60-140			
Ethylbenzene	9.16	0.50	"	10.0	ND	91.6	60-140			
Xylenes (total)	29.2	0.50	"	30.0	ND	97.3	60-140			
Methyl tert-butyl ether	13.8	2.5	"	10.0	ND	138	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>10.3</i>		<i>"</i>	<i>10.0</i>		<i>103</i>	<i>60-140</i>			

Matrix Spike Dup (1060143-MSD1)

Source: S106186-01

Prepared & Analyzed: 06/18/01

Benzene	8.34	0.50	ug/l	10.0	ND	83.4	60-140	3.53	25	
Toluene	9.45	0.50	"	10.0	ND	94.5	60-140	1.26	25	
Ethylbenzene	9.11	0.50	"	10.0	ND	91.1	60-140	0.547	25	
Xylenes (total)	29.1	0.50	"	30.0	ND	97.0	60-140	0.343	25	
Methyl tert-butyl ether	12.3	2.5	"	10.0	ND	123	60-140	11.5	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>10.4</i>		<i>"</i>	<i>10.0</i>		<i>104</i>	<i>60-140</i>			





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: Chevron 9-1851
Project Number: DG91-851
Project Manager: Ben Heningburg

Reported:
06/25/01 16:42

**MTBE Confirmation by EPA Method 8260A - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1060192 - EPA 5030B [P/T]									
Blank (1060192-BLK1)					Prepared & Analyzed: 06/22/01				
Methyl tert-butyl ether	ND	2.0	ug/l						
Surrogate: 1,2-DCA-d4	54.2		"	50.0		108 60-140			
LCS (1060192-BS1)					Prepared & Analyzed: 06/22/01				
Methyl tert-butyl ether	49.8	2.0	ug/l	50.0		99.6 70-130			
Surrogate: 1,2-DCA-d4	57.7		"	50.0		115 60-140			
Matrix Spike (1060192-MS1)					Source: S106201-13 Prepared & Analyzed: 06/22/01				
Methyl tert-butyl ether	50.4	2.0	ug/l	50.0	ND	101 60-140			
Surrogate: 1,2-DCA-d4	56.4		"	50.0		113 60-140			
Matrix Spike Dup (1060192-MSD1)					Source: S106201-13 Prepared & Analyzed: 06/22/01				
Methyl tert-butyl ether	49.5	2.0	ug/l	50.0	ND	99.0 60-140	1.80	25	
Surrogate: 1,2-DCA-d4	55.4		"	50.0		111 60-140			





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: Chevron 9-1851
Project Number: DG91-851
Project Manager: Ben Heningburg

Reported:
06/25/01 16:42

Notes and Definitions

zP-03 Chromatogram Pattern: Unidentified Hydrocarbons C6-C12

zR-05 The reporting limit(s) for this sample have been raised due to high levels of non-target interferents.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

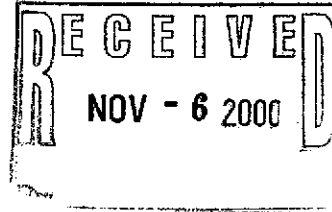
dry Sample results reported on a dry weight basis

RPD Relative Percent Difference





November 1, 2000



Ben Heningburg
Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova, CA 95670

RE: Chevron 9-1851/S010348

Dear Ben Heningburg

Enclosed are the results of analyses for sample(s) received by the laboratory on October 19, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sandra R. Hanson
Client Services Representative

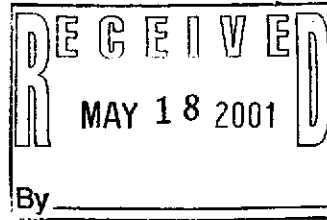
CA ELAP Certificate Number 1624





Sequoia Analytical

819 Striker Avenue, Suite 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com



May 15, 2001

Ben Heningburg
Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova, CA 95670
RE: Chevron 9-1851 / S105094

Enclosed are the results of analyses for samples received by the laboratory on 05/04/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Client Services Representative

CA ELAP Certificate Number 1624





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: Chevron 9-1851
Project Number: DG91-851
Project Manager: Ben Heningburg

Reported:
05/15/01 12:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4 853	S105094-01	Water	05/03/01 00:00	05/04/01 16:30
MW-7 1519	S105094-02	Water	05/03/01 00:00	05/04/01 16:30
MW-4 1505	S105094-03	Water	05/03/01 00:00	05/04/01 16:30
MW-7 830	S105094-04	Water	05/03/01 00:00	05/04/01 16:30





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: Chevron 9-1851
Project Number: DG91-851
Project Manager: Ben Heningburg

Reported:
05/15/01 12:59

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 853 (S105094-01) Water Sampled: 05/03/01 00:00 Received: 05/04/01 16:30									
Purgeable Hydrocarbons	491	250	ug/l	5	1050149	05/09/01	05/10/01	DHS LUFT	
Benzene	ND	2.50	"	"	"	"	"	"	
Toluene	ND	2.50	"	"	"	"	"	"	
Ethylbenzene	ND	2.50	"	"	"	"	"	"	
Xylenes (total)	ND	2.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		79.3 %	60-140		"	"	"	"	
MW-7 1519 (S105094-02) Water Sampled: 05/03/01 00:00 Received: 05/04/01 16:30									
Purgeable Hydrocarbons	201	50.0	ug/l	1	1050149	05/09/01	05/10/01	DHS LUFT	
Benzene	0.619	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	1.65	0.500	"	"	"	"	"	"	
Xylenes (total)	0.961	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		74.2 %	60-140		"	"	"	"	
MW-4 1505 (S105094-03) Water Sampled: 05/03/01 00:00 Received: 05/04/01 16:30									
Purgeable Hydrocarbons	370	250	ug/l	5	1050149	05/09/01	05/10/01	DHS LUFT	
Benzene	ND	2.50	"	"	"	"	"	"	
Toluene	ND	2.50	"	"	"	"	"	"	
Ethylbenzene	ND	2.50	"	"	"	"	"	"	
Xylenes (total)	ND	2.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		84.4 %	60-140		"	"	"	"	
MW-7 830 (S105094-04) Water Sampled: 05/03/01 00:00 Received: 05/04/01 16:30									
Purgeable Hydrocarbons	191	50.0	ug/l	1	1050149	05/09/01	05/10/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		80.1 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: Chevron 9-1851
Project Number: DG91-851
Project Manager: Ben Heningburg

Reported:
05/15/01 12:59

**MTBE by DHS LUFT
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 853 (S105094-01) Water Sampled: 05/03/01 00:00 Received: 05/04/01 16:30									
Methyl tert-butyl ether	2020	50.0	ug/l	20	1050177	05/11/01	05/11/01	DHS LUFT	
Surrogate: a,a,a-Trifluorotoluene		66.8 %	60-140		"	"	"	"	
MW-7 1519 (S105094-02) Water Sampled: 05/03/01 00:00 Received: 05/04/01 16:30									
Methyl tert-butyl ether	472	50.0	ug/l	20	1050177	05/11/01	05/11/01	DHS LUFT	
Surrogate: a,a,a-Trifluorotoluene		62.0 %	60-140		"	"	"	"	
MW-4 1505 (S105094-03) Water Sampled: 05/03/01 00:00 Received: 05/04/01 16:30									
Methyl tert-butyl ether	3330	50.0	ug/l	20	1050177	05/11/01	05/11/01	DHS LUFT	
Surrogate: a,a,a-Trifluorotoluene		96.3 %	60-140		"	"	"	"	
MW-7 830 (S105094-04) Water Sampled: 05/03/01 00:00 Received: 05/04/01 16:30									
Methyl tert-butyl ether	1070	50.0	ug/l	20	1050177	05/11/01	05/11/01	DHS LUFT	
Surrogate: a,a,a-Trifluorotoluene		99.6 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: Chevron 9-1851
Project Number: DG91-851
Project Manager: Ben Heningburg

Reported:
05/15/01 12:59

**MTBE Confirmation by EPA Method 8260A
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 853 (S105094-01) Water Sampled: 05/03/01 00:00 Received: 05/04/01 16:30									
Methyl tert-butyl ether	4270	50.0	ug/l	25	1050154	05/11/01	05/11/01	EPA 8260A	
Surrogate: 1,2-DCA-d4		103 %	60-140		"	"	"	"	
MW-7 1519 (S105094-02) Water Sampled: 05/03/01 00:00 Received: 05/04/01 16:30									
Methyl tert-butyl ether	647	10.0	ug/l	5	1050154	05/11/01	05/11/01	EPA 8260A	
Surrogate: 1,2-DCA-d4		107 %	60-140		"	"	"	"	
MW-4 1505 (S105094-03) Water Sampled: 05/03/01 00:00 Received: 05/04/01 16:30									
Methyl tert-butyl ether	4250	50.0	ug/l	25	1050154	05/11/01	05/11/01	EPA 8260A	
Surrogate: 1,2-DCA-d4		110 %	60-140		"	"	"	"	
MW-7 830 (S105094-04) Water Sampled: 05/03/01 00:00 Received: 05/04/01 16:30									
Methyl tert-butyl ether	1190	20.0	ug/l	10	1050154	05/11/01	05/11/01	EPA 8260A	
Surrogate: 1,2-DCA-d4		112 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: Chevron 9-1851
Project Number: DG91-851
Project Manager: Ben Henningburg

Reported:
05/15/01 12:59

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1050149 - EPA 5030B (P/T)										
Blank (1050149-BLK1) Prepared & Analyzed: 05/09/01										
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Surrogate: a,a,a-Trifluorotoluene	9.57		"	10.0		95.7	60-140			
LCS (1050149-BS1) Prepared & Analyzed: 05/09/01										
Benzene	8.24	0.500	ug/l	10.0		82.4	70-130			
Toluene	9.01	0.500	"	10.0		90.1	70-130			
Ethylbenzene	9.54	0.500	"	10.0		95.4	70-130			
Xylenes (total)	29.4	0.500	"	30.0		98.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.29		"	10.0		92.9	60-140			
Matrix Spike (1050149-MS1) Source: S105116-03 Prepared: 05/09/01 Analyzed: 05/10/01										
Benzene	8.30	0.500	ug/l	10.0	ND	83.0	60-140			
Toluene	9.01	0.500	"	10.0	ND	90.1	60-140			
Ethylbenzene	9.42	0.500	"	10.0	ND	94.2	60-140			
Xylenes (total)	29.5	0.500	"	30.0	ND	98.3	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.01		"	10.0		90.1	60-140			
Matrix Spike Dup (1050149-MSD1) Source: S105116-03 Prepared: 05/09/01 Analyzed: 05/10/01										
Benzene	8.23	0.500	ug/l	10.0	ND	82.3	60-140	0.847	25	
Toluene	8.95	0.500	"	10.0	ND	89.5	60-140	0.668	25	
Ethylbenzene	9.24	0.500	"	10.0	ND	92.4	60-140	1.93	25	
Xylenes (total)	28.8	0.500	"	30.0	ND	96.0	60-140	2.40	25	
Surrogate: a,a,a-Trifluorotoluene	8.73		"	10.0		87.3	60-140			





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: Chevron 9-1851
Project Number: DG91-851
Project Manager: Ben Henningburg

Reported:
05/15/01 12:59

**MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1050177 - EPA 5030B (P/T)

Blank (1050177-BLK1)

Prepared & Analyzed: 05/11/01

Methyl tert-butyl ether	ND	2.50	ug/l							
Surrogate: a,a,a-Trifluorotoluene	10.0		"	10.0		100	60-140			

LCS (1050177-BS1)

Prepared & Analyzed: 05/11/01

Methyl tert-butyl ether	8.63	2.50	ug/l	10.0		86.3	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.80		"	10.0		98.0	60-140			

Matrix Spike (1050177-MS1)

Source: S105120-07

Prepared & Analyzed: 05/11/01

Methyl tert-butyl ether	8.22	2.50	ug/l	10.0	ND	82.2	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.27		"	10.0		92.7	60-140			

Matrix Spike Dup (1050177-MSD1)

Source: S105120-07

Prepared & Analyzed: 05/11/01

Methyl tert-butyl ether	7.69	2.50	ug/l	10.0	ND	76.9	60-140	6.66	25	
Surrogate: a,a,a-Trifluorotoluene	9.44		"	10.0		94.4	60-140			





Delta Environmental Consultants(Rancho Cordova 3164 Gold Camp Drive Ste. 200 Rancho Cordova CA, 95670	Project: Chevron 9-1851 Project Number: DG91-851 Project Manager: Ben Heningburg	Reported: 05/15/01 12:59
---	--	-----------------------------

**MTBE Confirmation by EPA Method 8260A - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1050154 - EPA 5030B [P/T]

Blank (1050154-BLK1)				Prepared & Analyzed: 05/11/01						
Methyl tert-butyl ether	ND	2.00	ug/l							
Surrogate: 1,2-DCA-d4	54.0		"	50.0		108	60-140			
LCS (1050154-BS1)				Prepared & Analyzed: 05/11/01						
Methyl tert-butyl ether	50.1	2.00	ug/l	50.0		100	70-130			
Surrogate: 1,2-DCA-d4	55.6		"	50.0		111	60-140			
Matrix Spike (1050154-MS1)		Source: S105120-08		Prepared & Analyzed: 05/11/01						
Methyl tert-butyl ether	49.5	2.00	ug/l	50.0	ND	99.0	60-140			
Surrogate: 1,2-DCA-d4	55.9		"	50.0		112	60-140			
Matrix Spike Dup (1050154-MSD1)		Source: S105120-08		Prepared & Analyzed: 05/11/01						
Methyl tert-butyl ether	50.4	2.00	ug/l	50.0	ND	101	60-140	1.80	25	
Surrogate: 1,2-DCA-d4	54.8		"	50.0		110	60-140			





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: Chevron 9-1851
Project Number: DG91-851
Project Manager: Ben Heningburg

Reported:
05/15/01 12:59

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



