GETTLER-RYAN INC. RO 2438

TRANSMITTAL

MAY 17 2002

April 29, 2002
G-R #386911

TO: Mr. James Brownell
Delta Environmental Consultants, Inc.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, California 95670

CC: Ms. Karen Streich
Chevron Products Company
P.O. Box 6004
San Ramon, California 94583

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Chevron Service Station
#9-2029
890 West MacArthur Blvd.
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	April 25, 2002	Groundwater Monitoring and Sampling Report First Quarter - Event of March 12, 2002

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***May 14, 2002***, at which time the final report will be distributed to the following:

cc: **Mr. Don Hwang, Alameda County Health Care Services, Dept. of Environmental Health, 1153 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577**
Mr. Greg Gurss, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670

Enclosures

trans/9-2029-ks

GETTLER-RYAN INC.

April 25, 2002
G-R Job #386911

Ms. Karen Streich
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

MAY 17 2002

RE: First Quarter Event of March 12, 2002
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-2029
890 West MacArthur Blvd.
Oakland, California

Dear Ms. Streich:

This report documents the well development and the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

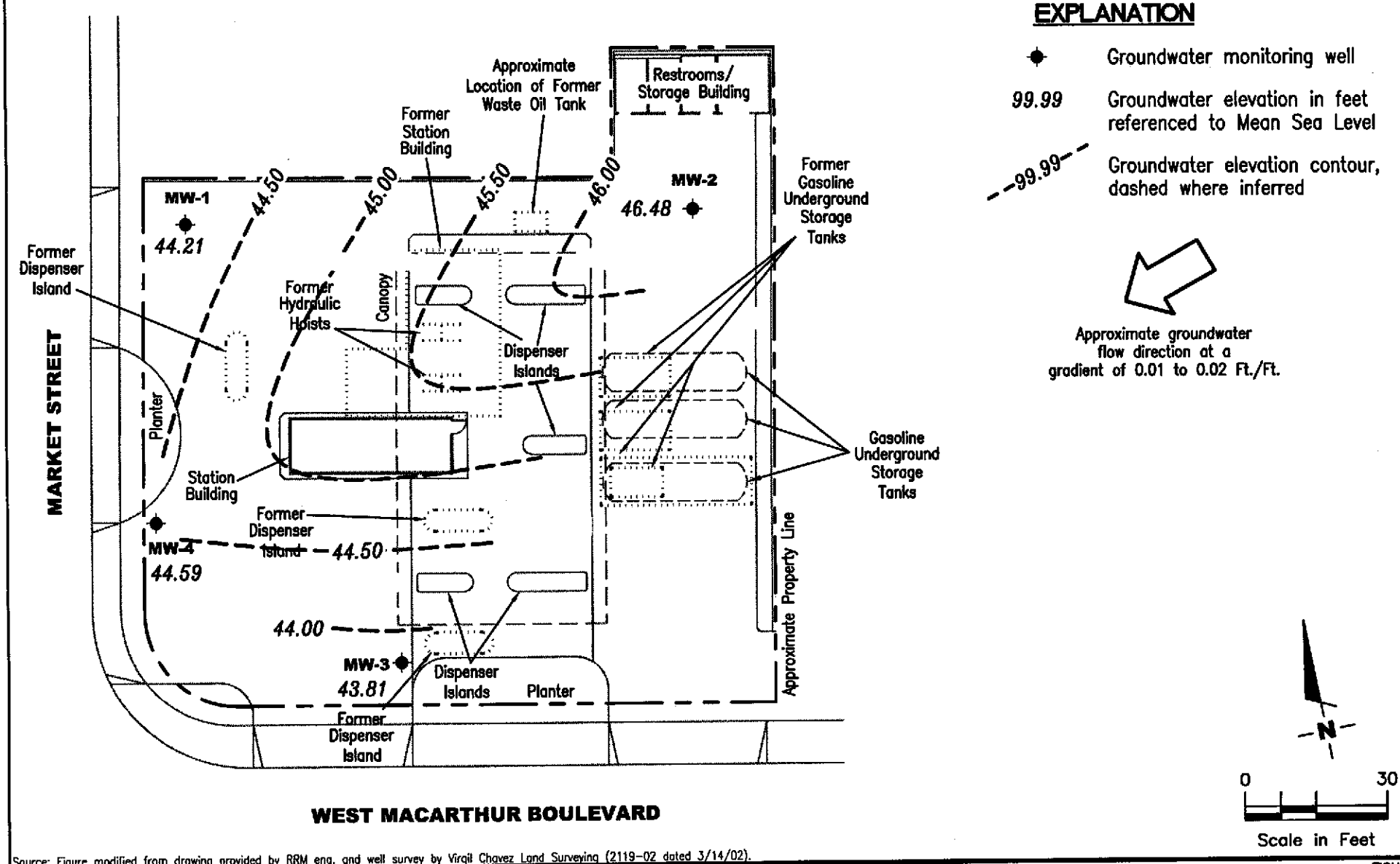
Sincerely,

Deanna L. Harding
Project Coordinator

Douglas J. Lee
Senior Geologist, R.G. No. 6882

REGISTERED GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

Figure 1: Potentiomatric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results – Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by RRM eng. and well survey by Virgil Chavez Land Surveying (2119-02 dated 3/14/02).

FIGURE 1

GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

POTENTIOMETRIC MAP
Chevron Service Station #9-2029
890 West MacArthur Boulevard
Oakland, California

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386911		March 12, 2002	

FILE NAME: P:\Enviro\Chevron\9-2029\002-9-2029.dwg | Layout Tab: Pot1

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-2029
890 West MacArthur Blvd.
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
50.71	03/12/02[1]	6.50	44.21	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
MW-2									
52.57	03/12/02[1]	6.09	46.48	<50	<0.50	<0.50	<0.50	<1.5	<2.5/3[2]
MW-3									
50.31	03/12/02[1]	6.50	43.81	12,000	600	8.5	1,100	370	700/650[2]
MW-4									
49.93	03/12/02[1]	5.34	44.59	9,700	360	5.3	1,100	150	170/170[2]
TRIP BLANK									
QA	03/12/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-2029
890 West MacArthur Blvd.
Oakland, California

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
DTW = Depth to Water
TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether
(ppb) = Parts per billion
-- = Not Measured/Not Analyzed
QA = Quality Assurance

* TOC elevations were surveyed on March 14, 2002, by Virgil Chavez Land Surveying. The benchmark for this survey was a USGS bronze disk located near the north end of the curb return at the Northwest corner of 38th Street and Broadway, (Benchmark Elevation = 85.41 feet, NGVD29).

[1] Well development performed.

[2] MTBE by EPA method 8260.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-2029
890 West MacArthur Blvd.
Oakland, California

WELL ID	DATE	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	03/12/02	<100	<2	<2	<2	<2	<2	<2
MW-2	03/12/02	<100	3	<2	<2	<2	<2	<2
MW-3	03/12/02	<100	650	<2	<2	18	<2	<2
MW-4	03/12/02	<100	170	<2	<2	13	<2	<2

EXPLANATIONS:

TBA = tertiary-Butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = tertiary-Amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
(ppb) = Parts per billion

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to well development, each well is monitored for the presence of free-phase hydrocarbons and the depth to water is recorded. Wells are then developed by alternately surging the well with the bailer, then purging the well with a pump to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET

Client/ CHEVRON
Facility 9-2029 Job#: 386911
Address: 890 W. MacArthur Blvd. Date: 3/12/02
City: Oakland, CA Sampler: BG

Well ID MW-1 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: 0 Ft. Amount Bailed (product/water): 0 (gal.)
Total Depth 22.29 ft.
Depth to Water 6.50 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

15.79 X VF .17 = 3 X 10 (case volume) = Estimated Purge Volume: 30 (gal.)

Purge Equipment: Disposable Bailer; Bailer; ~~Stack~~; Suction; Grundfos; Other: ~~Stainless Steel Bailer~~

Sampling Equipment: Disposable Bailer; ~~Bailer~~; Pressure Bailer; Grab Sample; Other:

Starting Time: 0930
Sampling Time: 0958
Purging Flow Rate: 3 gpm.
Did well de-water? NO

Weather Conditions: Cloudy
Water Color: Light Brown Odor: NO
Sediment Description: little to no silt.
If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
0931	3	7.44	925	63.8			
	6						
	9						
	12						
0938	15	7.03	455	65.5			
	18						
	21						
	24						
	27						
0945	30	6.98	455	65.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x VOAs	Y	HCL	Lancaster	TPHG/BTEX/MTBE 8260's

COMMENTS: TD After surging and purging 24.67.

9/97-fieldat.frm

WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET

Client/ CHEVRON
Facility 9-2029 Job#: 386911
Address: 890 W. MacArthur Blvd. Date: 3-12-02
City: Oakland, CA Sampler: BG

Well ID MW 2
Well Condition: OK
Well Diameter 2 in.
Hydrocarbon Thickness: 0 Ft.
Amount Bailed (product/water): 0 (gal.)
Total Depth 20.65 ft.
Depth to Water 6.09 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

14.56 X VF .17 = 2 X 10 (case volume) = Estimated Purge Volume: 20 (gal.)

Purge Equipment: ~~Disposable Bailer~~ ~~Bailer~~ ~~Stack~~ Suction ~~Grundfos~~ Other: Stainless steel Bailer

Sampling Equipment: Disposable Bailer ~~Bailer~~ ~~Pressure Bailer~~ ~~Grab Sample~~ Other: _____

Starting Time: 1131
Sampling Time: 1158
Purging Flow Rate: 3 gpm.
Did well de-water? N
Weather Conditions: Cloudy
Water Color: Light Brown Odor: None
Sediment Description: Light silt
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1132	2	7.14	548	65.0			
	4						
	6						
	8						
1135	10	6.88	538	65.3			
	12						
	14						
	16						
	18						
1140	20	6.89	531	66.1			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 2	6 x VOA	Y	HCl	~~PACE~~ Lancaster	TPHG/Btex/MtBE/TOG

COMMENTS: 21.21 TD after sucking and pushing

WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET

Client/ CHEVRON
Facility 9-2029 Job#: 386911
Address: 890 W. MacArthur Blvd. Date: 3-12-02
City: Oakland, CA Sampler: BG

Well ID MW-3
Well Condition: OK
Well Diameter 2 in.
Hydrocarbon Thickness: 0 Ft.
Amount Bailed (product/water): 0 (gal.)
Total Depth 24.54 ft.
Depth to Water 6.50 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

18.04 x VF .17 = 3 x 10 (case volume) = Estimated Purge Volume: 30 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; Suction; Grundfos; Other: Stainless Steel Bailer

Sampling Equipment: Disposable Bailer; Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 1030
Sampling Time: 1052
Purging Flow Rate: 3 gpm.
Did well de-water? N/A
Weather Conditions: Cloudy
Water Color: Brown Odor: No
Sediment Description: light silt
If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1031	3	5.30	571	67.1			
	6						
	9						
	12						
1036	15	6.11	561	67.6			
	18						
	21						
	24						
	27						
1042	30	6.18	560	67.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x VOA	Y	HCL	Lancaster	TPH-G/BTEX/MTBE/7 OXYS

COMMENTS: Went to after purging and purging 24.50

9/97-fieldst.frm

WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET

Client/ CHEVRON
Facility 9-2029 Job#: 386911
Address: 890 W. MacArthur Blvd. Date: 3-12-02
City: Oakland, CA Sampler: BG

Well ID MW-4 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: 0 Ft. Amount Bailed (product/water): 0 (gal.)
Total Depth 24.57 ft.
Depth to Water 5.34 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

19.23 x VF 17 = 3 x 3 (case volume) = Estimated Purge Volume: 30 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; (Suction); ~~Grundfos~~; (Other: Stainless Steel Bailer)

Sampling Equipment: (Disposable Bailer); ~~Bailer~~; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 1107 Weather Conditions: Cloudy
Sampling Time: 1125 Water Color: light Brown Odor: Slight.
Purging Flow Rate: 3 gpm. Sediment Description: —
Did well de-water? N If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1109	3	6.47	540	66.0			
	6						
	9						
	12						
1112	15	5.97	601	68.4			
	18						
	21						
	24						
	27						
1119	30	5.96	611	68.5			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x VOA's	Y	HCL	Lancaster	TPH-G / MTBE / BTEX / TOG

COMMENTS: New TD After Surging and Purging is 24.64

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

140302-005

For Lancaster Laboratories use only
Acct. #: 10992 Sample #: 378391 - 95 SCR#:

Facility #: 9-2029 Job #386911 Global ID #NA
Site Address: 890 WEST MacAUTHUR BLVD., OAKLAND, CA
Chevron PM: Tom Bauhs Lead Consultant: Gettler-Ryan
Consultant/Office: ~~G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568~~
Consultant Prj. Mgr.: ~~Deanna L. Harding~~ ~~(Deanna@grinc.com)~~
Consultant Phone #: ~~925-551-7555~~ Fax #: ~~925-551-7899~~
Sampler: Brian Gan
Service Order #: ☐ Non SAR:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (Potable ☐ NPDES ☐)	Matrix: Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☑ (H)	TPH 8015 MOD GRO (H)	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	≠ Oxygenates by 8260 (H)	Lead 7420 ☐ 7421 ☐
QA	3-12-02	—				X		2	X	X				
MW-1		0958	X			X		6	X	X			X	
MW-2		1158	X			X		6	X	X			X	
MW-3		1052	X			X		6	X	X			X	
MW-4	↓	1125	X			X		6	X	X			X	

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

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy s on highest hit
☐ Run ____ oxy s on all hits

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
~~24 hour~~ 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: Brian Gan	3-12-02	1352	Received by: [signature]	3/14/02	1151
Relinquished by: [signature]	3/14/02	1310	Received by: Andrea Amaya	3-14-02	1310
Relinquished by: William Anderson	3/14/02	1430	Received by: Airborne	3/14/02	
Relinquished by Commercial Carrier: UPS FedEx (Other) Airborne			Received by: [signature]	03/15/02	09L
Temperature Upon Receipt 15·3.0C°			Custody Seals Intact? (Yes) No		

3460 Rev. 7/30/01

Analysis Report

Lancaster Laboratories
Where quality is a science.

ANALYTICAL RESULTS

Prepared for:

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904
925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 800511. Samples arrived at the laboratory on Friday, March 15, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description			Lancaster Labs Number
QA-T-020312	NA	Water	3789391
MW-1-W-020312	Grab	Water	3789392
MW-2-W-020312	Grab	Water	3789393
MW-3-W-020312	Grab	Water	3789394
MW-4-W-020312	Grab	Water	3789395

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Chevron Products Company Attn: Deanna Harding

Lancaster Laboratories
Where quality is a science.

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

Respectfully Submitted,

Victoria M. Martell
Chemist

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

Analysis Report

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3789391

Collected:03/12/2002 00:00

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
QA-T-020312 NA Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA QA

QA029

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. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/18/2002 21:37	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/18/2002 21:37	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/18/2002 21:37	Melissa D Mann	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3789392

Collected:03/12/2002 09:58 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
MW-1-W-020312 Grab Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA NA

M1029

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. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	N.D.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	2.	ug/l	1

State of California Lab Certification No. 2116

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3789392

Collected:03/12/2002 09:58 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
MW-1-W-020312 Grab Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA NA

M1029

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/18/2002 15:04	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/18/2002 15:04	Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	03/21/2002 21:46	Susan McMahon-Luu	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/18/2002 15:04	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/21/2002 21:46	Susan McMahon-Luu	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Lancaster Laboratories Sample No. WW 3789393

Collected:03/12/2002 11:58 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
MW-2-W-020312 Grab Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA NA

M2029

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. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	3.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	2.	ug/l	1

State of California Lab Certification No. 2116

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890 W MACARTHUR-OAKLAND NA NA

M2029

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/18/2002 15:39	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/18/2002 15:39	Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	03/21/2002 22:12	Susan McMahon-Luu	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/18/2002 15:39	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/21/2002 22:12	Susan McMahon-Luu	n.a.

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Lancaster Laboratories Sample No. WW 3789394

Collected:03/12/2002 10:52 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
MW-3-W-020312 Grab Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA NA

M3029

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.	12,000.	250.	ug/l	5
	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. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	600.	1.0	ug/l	5
00777	Toluene	108-88-3	8.5	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	1,100.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	370.	3.0	ug/l	5
00780	Methyl tert-Butyl Ether	1634-04-4	700.	2.5	ug/l	5
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	650.	3.	ug/l	5
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	18.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	2.	ug/l	1

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Lancaster Laboratories Sample No. WW 3789394

Collected:03/12/2002 10:52 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
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MW-3-W-020312 Grab Water

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Facility# 92029 Job# 386911 GRD
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M3029

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/19/2002 06:50	Melissa D Mann	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/19/2002 06:50	Melissa D Mann	5
01595	Oxygenates by 8260B	SW-846 8260B	1	03/21/2002 23:03	Susan McMahon-Luu	5
01595	Oxygenates by 8260B	SW-846 8260B	1	03/21/2002 23:28	Susan McMahon-Luu	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/19/2002 06:50	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/21/2002 23:03	Susan McMahon-Luu	n.a.

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N.D.=Not detected at or above the Reporting Limit

Analysis Report

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Lancaster Laboratories Sample No. WW 3789395

Collected:03/12/2002 11:25 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
MW-4-W-020312 Grab Water

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

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA NA

M4029

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.	9,700.	250.	ug/l	5
	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. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	360.	1.0	ug/l	5
00777	Toluene	108-88-3	5.3	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	1,100.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	150.	3.0	ug/l	5
00780	Methyl tert-Butyl Ether	1634-04-4	170.	2.5	ug/l	5
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	170.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	13.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	2.	ug/l	1

State of California Lab Certification No. 2116

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Lancaster Laboratories Sample No. WW 3789395

Collected:03/12/2002 11:25 by BG

Account Number: 10992

Submitted: 03/15/2002 09:10
Reported: 03/29/2002 at 08:49
Discard: 04/06/2002
MW-4-W-020312 Grab Water

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6001 Bollinger Canyon Road
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San Ramon CA 94583-0904

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-OAKLAND NA NA

M4029

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/19/2002 07:25	Melissa D Mann	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/19/2002 07:25	Melissa D Mann	5
01595	Oxygenates by 8260B	SW-846 8260B	1	03/21/2002 22:38	Susan McMahon-Luu	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/19/2002 07:25	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/21/2002 22:38	Susan McMahon-Luu	n.a.

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Quality Control Summary

Client Name: Chevron Products Company
Group Number: 800511
Reported: 03/29/02 at 08:49 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02077A51A	Sample number(s): 3789391-3789393							
Benzene	N.D.	.2	ug/l	108	109	80-118	2	30
Toluene	N.D.	.5	ug/l	108	109	82-119	1	30
Ethylbenzene	N.D.	.5	ug/l	108	108	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	109	108	82-120	0	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	115	114	79-127	1	30
TPH-GRO - Waters	N.D.	50.	ug/l	99	96	76-126	3	30
Batch number: 02077A51B	Sample number(s): 3789394-3789395							
Benzene	N.D.	.2	ug/l	108	109	80-118	2	30
Toluene	N.D.	.5	ug/l	108	109	82-119	1	30
Ethylbenzene	N.D.	.5	ug/l	108	108	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	109	108	82-120	0	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	115	114	79-127	1	30
TPH-GRO - Waters	N.D.	50.	ug/l	99	96	76-126	3	30
Batch number: P020801AB	Sample number(s): 3789392-3789395							
Methyl t-butyl ether	N.D.	2.	ug/l	111		77-127		
di-Isopropyl ether	N.D.	.5	ug/l	113		74-125		
Ethyl t-butyl ether	N.D.	.5	ug/l	108		74-120		
t-Amyl methyl ether	N.D.	.5	ug/l	113		71-114		
t-Butyl alcohol	N.D.	5.	ug/l	107		59-139		
1,2-Dichloroethane	N.D.	.5	ug/l	123		77-132		
1,2-Dibromoethane	N.D.	.5	ug/l	112		84-119		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 02077A51A	Sample number(s): 3789391-3789393								
Benzene	114		77-131						
Toluene	114		80-128						
Ethylbenzene	115		76-132						
Total Xylenes	115		76-132						
Methyl tert-Butyl Ether	116		61-144						
TPH-GRO - Waters	107		74-132						
Batch number: 02077A51B	Sample number(s): 3789394-3789395								
Benzene	114		77-131						
Toluene	114		80-128						
Ethylbenzene	115		76-132						
Total Xylenes	115		76-132						
Methyl tert-Butyl Ether	116		61-144						
TPH-GRO - Waters	107		74-132						

*- 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.

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Quality Control Summary

Client Name: Chevron Products Company
Reported: 03/29/02 at 08:49 AM

Group Number: 800511

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: P020801AB	Sample number(s): 3789392-3789395								
Methyl t-butyl ether	120	121	69-134	0	30				
di-Isopropyl ether	123	125	68-133	1	30				
Ethyl t-butyl ether	124*	130*	73-123	5	30				
t-Amyl methyl ether	114	117	69-118	2	30				
t-Butyl alcohol	110	110	51-148	0	30				
1,2-Dichloroethane	125	128	75-141	3	30				
1,2-Dibromoethane	113	117	78-120	3	30				

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
Batch number: 02077A51A

	Trifluorotoluene-F	Trifluorotoluene-P
3789391	97	96
3789392	98	94
3789393	98	94
Blank	102	96
LCS	111	97
LCSD	110	97
MS	115	97
Limits:	67-135	71-130

Analysis Name: TPH-GRO - Waters
Batch number: 02077A51B

	Trifluorotoluene-F	Trifluorotoluene-P
3789394	111	109
3789395	117	112
Blank	98	95
LCS	111	97
LCSD	110	97
MS	115	97
Limits:	67-135	71-130

Analysis Name: Oxygenates by 8260B
Batch number: P020801AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3789392	104	99	99	97
3789393	104	97	100	96

*- 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.

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Quality Control Summary

Client Name: Chevron Products Company
Group Number: 800511
Reported: 03/29/02 at 08:49 AM

Surrogate Quality Control

3789394	99	96	101	97
3789395	98	91	99	104
Blank	102	95	100	97
LCS	103	97	99	101
MS	101	98	100	100
MSD	100	97	99	99
Limits:	86-118	80-120	88-110	86-115

*- 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.

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