

JUN 1 7 2002

May 29, 2002 G-R #386498

TO:

Mr. James Brownell

Delta Environmental Consultants, Inc. 3164 Gold Camp Drive, Suite 200 Rancho Cordova, California 95670

CC: Mr. Thomas Bauhs

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 #206127

(Former Signal Oil Marine Terminal)

2301-2337 Blanding Avenue

Alameda, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	May 21, 2002	Groundwater Monitoring and Sampling Report Second Quarter - Event of April 8, 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 *June 10*, 2002, at which time the final report will be distributed to the following:

cc: Ms. Eva Chu, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577

Mr. Greg Gurss, Gettler-Ryan Inc., 3164 Gold Camp Drive, Suite 240, Rancho Cordova, CA 95670

Enclosures

trans/206127-tb



May 21, 2002 G-R Job #386498

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

RE:

Second Quarter Event of April 8, 2002

Groundwater Monitoring & Sampling Report

Chevron #206127 (Former Signal Oil Marine Terminal)

2301-2337 Blanding Avenue

Alameda, California

Dear Ms. Streich:

This report documents 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 level was measured and the well was checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevation, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Groundwater Elevation Map is included as Figure 1.

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

No. 6882

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

Figure 1:

Groundwater Elevation Map

Table 1:

Groundwater Monitoring Data and Analytical Results Standard Operating Procedure - Groundwater Sampling

Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports

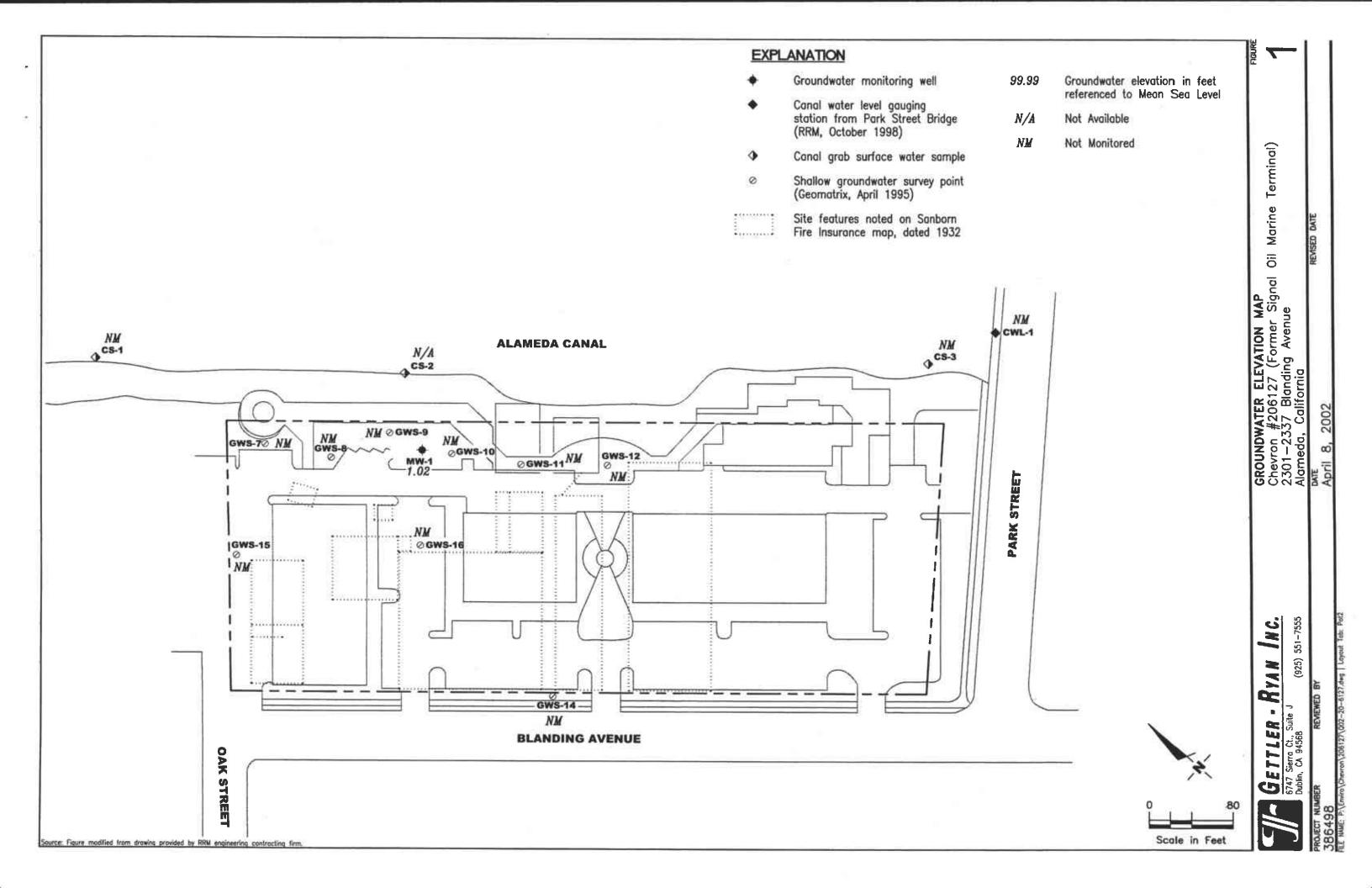


Table 1 Groundwater Monitoring Data and Analytical Results
Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue

Alameda, California

WELL ID/	DATE	DTW	GWE	TPH-D	TPH-G	В	T	Ė	X	MTBE
TOC*(ft.)		(ft.)	(msl)	(ppb)	(pph)	(ppb)	(ppb)	(ppb)	(pph)	(pph)
MW-1	01/23/01	7.16		1,100 ^{2.3}	5,210 ⁴	868	<50.0	<50.0	<50.0	<250
10.62	04/09/01	8.12	2.50	1,200 ⁶	3,000 ⁵	920	<20	<20	<20	<100
	07/30/01	9.15	1.47	550 ^{4,8}	$2,000^7$	730	13	<5.0	<5.0	<25
	10/08/01	7.86	2.76	2,200 ⁹	1,200	120	2.4	5.9	6.4	<2.5
	01/13/02	7.02	3.60	$3,300^4$	930	320	0.78	0.87	3.8	<2.5
	04/08/02	9.60	1.02	1,2004	960	50	1.4	2.6	9,0	<2.5
CS-2	07/30/01			140 ^{4.5}	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	10/08/01			53 ⁹	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
	01/13/02			<50 ⁴	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
	04/08/02			774	<50	< 0.50	<0.50	<0.50	<1.5	<2.5
T-i- Dlast										
Trip Blank TB-LB	01/23/01				<50.0	< 0.500	< 0.500	<0.500	< 0.500	<2.50
	04/09/01				<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	07/30/01			**	<50	< 0.50	< 0.50	<0.50	< 0.50	<2.5
QA	10/08/01				<50	<0.50	< 0.50	< 0.50	<1.5	<2.5
-	01/13/02				<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
	04/08/02				<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal) 2301-2337 Blanding Avenue Alameda, California

EXPLANATIONS:

TOC = Top of Casing

TPH-G = Total Petroleum Hydrocarbons as Gasoline

(ppb) = Parts per billion

(ft.) = Feet

B = Benzene

-- = Not Measured/Not Analyzed

DTW = Depth to Water

T = Toluene

CS-2 = Creek Sample

GWE = Groundwater Elevation

E = Ethylbenzene

QA = Quality Assurance

(msl) = Mean sea level

X = Xylenes

TPH-D = Total Petroleum Hydrocarbons as Diesel

MTBE = Methyl tertiary butyl ether

- Well development performed.
- Laboratory report indicates unidentified hydrocarbons <C16.
- Laboratory report indicates weathered gasoline C6-C12.
- TPH-D with silica gel cleanup.
- Laboratory report indicates discrete peaks.
- Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons < C16.
- Laboratory report indicates gasoline C6-C12.
- Laboratory report indicates unidentified hydrocarbons C9-C24.
- Analysis performed without silica gel cleanup although was requested on the Chain of Custody.

TOC elevations were surveyed on January 25, 2001, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Alameda benchmark being a cut square at the centerline return, south corner of Oak and Blanding, (Benchmark Elevation = 8.236 feet, NGVD 29).

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 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/SAMPLING FIELD DATA SHEET.

Total Depth	CHEVRON Secility#	06127	1.17	J	ob#:	386-	198	
Well ID Well Depth Well Depth Depth to Water Purge (Disposable Bailer) Bailer Stack Suction Grundtos Other: Starting Time: Startin	Address: 230	1-2337 131	undins	AUR. D	ate:	4.8	.02	· · · · · · · · · · · · · · · · · · ·
Well ID Well Diameter Total Depth Depth to Weier Other: Purge (Disposable Bailer) Stack Suction Grundfos Other: Starting Time: Starting	City: Ale	, Lenn	A	}				
Well Diemeter Total Depth Depth to Weter Purge (Disposable Baller) Sampling Equipment: Baller Stack Suction Grundfos Other: Serting Time: Sampling Flow Rate: Did well de-water? Did well de-water? Time Volume ph Conductivity Purge (Disposable Baller) Sempling Equipment: Stack Suction Grundfos Other: Useposable Baller Sample Conductivity Water Color: Time: Volume ph Conductivity Temperature ph Conductivity ph Alkalir (pp Alkalir								
Thickness:	Well ID	•	Wei	I Condition:		o'k'		
Total Depth	Well Diameter	<u> 2'</u>						
Depth to Water The content of the	Total Depth	17.40 4			11241			(Gallons)
Purge (Disposable Bailer) Bailer Stack Suction Grundfos Other:	Depth to Water	9.60 #	T					1 2 0.00
Purge (Disposable Bailer) Bailer Stack Suction Grundfos Other:		7. 80_x	vf <u>.17</u>	- <u>1.32</u> × 3	case volume) =	Estimated Pu	arge Volume:	3.97 (gal.)
Sampling Time: 3'. 50 Water Color: CLOUDY GREY Odor: US Purging Flow Rate: MA apm. Sediment Description: Silty Did well de-water? NO If yes; Time: Volume: Water Color: CLOUDY GREY Odor: US Time Volume pH Conductivity Temperature D.O. ORP Alkalir 3: 33 1.5 6.94 600 F3 (mg/L) (mV) (ppm 400 40.3 59.9 3: 40 4.0 6.81 583 60.0 LABORATORY INFORMATION SAMPLE ID (#): CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES' PMW-1 3 X VOA VIAL Y HCL SEQUOIA LAN. TPHIGIATEX/mitbe 2- AMSTAS II NP II TPN-D W S.C.	_	(Disposable Bailer Bailer Stack Suction Grundlos)	Sampl	ing nent: (Dis Ba Pro Gr	sposable Ba iler essure Baile ab Sample	e iler) er	
Purging Flow Rate: MA gpm. Sediment Description: SiLTY Did well de-water? NO If yes; Time: Volume: Volume: If yes; Time: Volume: If	-							
Time Volume pH Conductivity Temperature D.O. ORP Alkalir (mg/L) (mV) (ppm 3: 33 1.5 6.94 610 60.3 (my/L) (mV) (ppm 3: 37 3.0 6.87 663 59.9 (mg/L) (mV) (ppm 3: 40 4.0 6.8) 583 60.0 (mv/L) (mv/						•		
Time Volume pH Conductivity Temperature D.O. ORP (myl.) (mV) (ppm 3: 33 1.5 6.94 610 60.3 59.9 (myl.) (mV) (ppm 4: 400 6.81 59.9 (myl.) (mV) (ppm 4: 400 6.81 583 59.9 (myl.) (mV) (ppm 4: 400 6.81 583 60.0 (myl.) (mV) (ppm 4: 400 6.81 583 60.0 (myl.) (mV) (ppm 4: 400 6.81 583 60.0 (myl.) (mV) (ppm 4: 400 6.81 583 59.9 (myl.) (mV) (ppm 4: 400 6.81 59.3 (myl.) (mV) (ppm 4: 400 6.81 59.3 (myl.) (mV) (ppm 4: 400 6.31 59.9 (myl.) (mV) (ppm 4: 400 6.81 6.31 59.9 (myl.) (mV) (ppm 4: 400 6.31 59.9 (myl.) (mV) (mV) (ppm 4: 400 6.31 59.9 (myl.) (mV) (mV) (ppm 4: 400 6.31 59.9 (myl.) (mV) (mV) (mV) (mV) (ppm 4: 400 6.31 59.9 (myl.) (mV) (mV) (mV) (mV) (mV) (mV) (mV) (mV	Did well de-water	, NO					, , , , , , , , , , , , , , , , , , , ,	
SAMPLE ID (#): CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES	Time Vo. 2: 33 1. 3: 37 3	lume pH 5 6.94 .0 6.87	μml - 60	105/cm +100 10	<u>60.3</u> 59.9			· Alkalinity (ppm)
SAMPLE ID (#): CONTAINER REFRIG. PRESERV. TYPE: LABORATORY ANALYSES THUS AND ANALYSES THE SEQUELA LAN. TPH(G)/Intex/mitbe	<u> </u>	.0 0.12	<u></u>		60.0			
SAMPLE ID (#): CONTAINER REFRIG. PRESERV. TYPE: LABORATORY ANALYSES THUL SEQUELA LAN. TPH(G)/Intex/mitbe								. 1001
MW-1 3 X VOA VIAL Y HCL SEQUEIA LAN. TPH(G)/brex/mrbe 2+ AMBERS II NP II TPH-D W S.L-	SAMPLE ID	(#) - CONTAINER			•	RATORY	ANA	LYSES"
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		+ Ambers	II.	NP	И		TPH-D	w S.L.
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OMMENTS:								
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B/97-fieldst.trm

WELL MONITORING/SAMPLING FIELD DATA SHEET

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Address: <u>230</u>	21-3332 1	surling Ave	Date: _	4.8.	07
City: Al	· Liens	CA	Sampler	FT	
			Campier		
Well ID	<u>CS-1</u>	Well Condit	ion:	CRESIL 3	AMPLE
Well Diameter	<u> </u>	in. Hydrocarbor Thickness:	n O ∵(teet)	Amount Baile (product/water):	d (Gallons)
Total Depth		ft. Volume		3" = 0.38	
Depth to Water		Factor (VF)	6* =	1.50 12	* = 5.80
			X 3 (case volume) +	= Estimated Purge	Volume:(gal.)
Purge Equipment:	Disposable Bail Bailer Stack Suction Grundfos Other:	E	B: Pi G	isposable Baller eller essure Baller rab Sample ther:	•
Starting Time:		Weather	Conditions: _	SUN	
Sampling Time:	3:14	Water C			dor: yes
Purging Flow Rate	·		nt Description: _		
Did well de-water?		If yes;	Time:	Volume:	(ga).)
	ume pH	Conductivity µmhos/cm	Temperature •F	D.O. (mg/L)	ORP Alkalinity (mV) (ppm)
	$ eq \equiv$		-		
· .		LABORATORY IN	NFORMATION		
SAMPLE ID 14) - CONTAINER			RATORY	ANALYSES
CS-2 3	X VOA VIAL	Y HCL	CEQUO :	A LAN. TPI	H(G)/btex/mtbe
a.	+ Ambers	II NP	1	T	PH-D W/ S.6.
COMMENTS:	Took Shown C	SAMPLE ON MAP.	AT DES	IL WATED	ANLEM AS

Chevron California Region Analysis Request/Chain of Custody

413	Lancaster Where quality is a	Labora	atories
78?	Where quality is a	science.	

041002-008

For Lancaster Laboratories use only
Acct. #: 10905 Sample #: 3904271-3

SCR#:

						ſ				Α	naly	ses	Req	uest	ed			·			
Facility #: 20612/ Job #386498	Globel ID#	NA	Π	Matrix						P	res	ervat	lon	Cod	8			_	Preservat	ive Code	s
2301-2337 BLANDING A							Ц	-	d _I					\dashv	-				N = HNO₃	T = Thioso B = NaOH	4
Chevron PM: Tom Bauhs Lo Consultant/Office: G-R, Inc., 6747 Si	ead Consultant: erra Court, Dub	olin, Ca 94568		☐ Potable ☐ NPDES		Sers	1 27		Sel Clear										S = H ₂ SO ₄ ☐ J value reporti	O = Other	
Consultant Prj. Mgr.: Deanna L. Harding	onsultant Prj. Mgr.: Deanna L. Harding (Deanna@grinc.co.onsultant Phone #: 925-551-7555 Fax #: 925-551-7899					Total Number of Containers	8260 🗆 8021🕰		Silica Gel Cleanup								,		Must meet low possible for 82	60 сотрог	
			╛		1	ig g	8260	88	S S		S								8021 MTBE Conf		en
Sampler: FRANK		Time collected 55	2		Oil 🗆 Air 🗆	Ĕ	BTEX + MTBE 8260 □	Ø.	TPH 8015 MOD DRO	F8	Oxygenates	.ead 7420 🖂 7421	ŀ						Confirm all hits		60
Service Order #:	Non SAR:	Time R		Water		Ž R	X + M	8015	8015	8260 full scan	δά.	17420			- 1				Runoxy		1
Sample Identification	Date Collected	Time & E	So.	×a		_	BTE	표	Ŧ	8260		řead De							Runoxy		\$
QA	4.8.02		\perp	W		2	X	X							_				Comments / R	emarks	
MW-		1550 X	-	-	H	5	×	2	x					\dashv	\dashv				_		
CS-2		1514 2	<u> </u>	V		5	X	X	R]		
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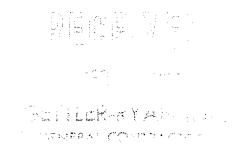
ANALYTICAL RESULTS

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 803754. Samples arrived at the laboratory on Friday, April 12, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description			Lancaster Labs Number
QA-T-020408	NA	Water	3804291
MW-1-W-020408	Grab	Water	3804292
CS-2-W-020408	Grab	Water	3804293

METHODOLOGY

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

1 COPY TO

Delta C/O Gettler-Ryan

Attn: Deanna L. Harding

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

Respectfully Submitted,

Christine M. Dulaney



Lancaster Laboratories, Inc. 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-655-2300 Fax: 717-656-2681



Page 1 of 1

Lancaster Laboratories Sample No. 3804291

Account Number: 10905 Collected:04/08/2002 00:00

Submitted: 04/12/2002 09:45 Reported: 04/22/2002 at 13:17

Discard: 05/23/2002

OA-T-020408

AИ Water Chevron Products Company 6001 Bollinger Canyon Road Building L PO Box 6004

San Ramon CA 94583-0904

Facility# 206127 Job# 386498

2301-2337 BLANDING-ALAMED NA

QΑ

GRD

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of :	PH-GRO does no	t include MTBE of	r other		
	gasoline constituents eluting p					
	start time.					
	A site-specific MSD sample was	not submitted	for the project.	A LCS/LCSD		
	was performed to demonstrate pr					
	•			•		
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 p					

State of California Lab Certification No. 2116

		Laboratory	Chro:	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/13/2002 15:04	John B Kiser	1
08214	BTEX, MTBE (8021)	SW-846 B021B	1	04/13/2002 15:04	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/13/2002 15:04	John B Kiser	n.a.

As Received



Page 1 of 2

Lancaster Laboratories Sample No. WW 3804292

Collected: 04/08/2002 15:50 by FT Account Number: 10905

Submitted: 04/12/2002 09:45 Chevron Products Company Reported: 04/22/2002 at 13:17 6001 Bollinger Canyon Road

Discard: 05/23/2002 Building L PO Box 6004 MW-1-W-020408 Grab Water San Ramon CA 94583-0904

yw-1-w-020400 Grab water San Kamon Ch 94303 050

Facility# 206127 Job# 386498 GRD

2301-2337 BLANDING-ALAMED NA NA

M1498

	•			As Keceived		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02202	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	1,200.	100.	ug/l	1
	According to the California LUF	•	•			
	Range Organics was performed by	peak area com	mparison of the s	ample pattern		
	to that of our #2 fuel oil refe	rence standard	d (between C10 an	nd C28 normal		
	hydrocarbons). Site-specific MS/MSD samples we	ro not cubmitt	ad for the wrose	A+ 3 1CC/1CCD		
	was performed to demonstrate pr					
	was performed to demonstrate pr	ecision and ac	curacy at a bacc	II TEVEL.		
	Due to interferences from the s	ample matrix (high sediment co	ontent), the		
	reporting limit was increased.		-			
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	960.	50.	ug/l	1
	The reported concentration of T	PH-GRO does no	ot include MTBE o	or other		
	gasoline constituents eluting p	rior to the Ce	(n-hexane) TPH-	-GRO range		
	start time.					
	A site-specific MSD sample was					
	was performed to demonstrate pr	ecision and ac	curacy at a bato	ch level.		
	Due to the nature of the sample	matrix the s	surrogate standa:	rd recovery is		
	above the range of specification	•	arrogate scamaa.	ta recovery ro		
						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	50.	0.50	ug/l	1
00777	Toluene	108-88-3	1.4	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	2.6	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	9.0	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		

State of California Lab Certification No. 2116

was performed to demonstrate precision and accuracy at a batch level.

#=Laboratory MethodDetection Limit between ded arget detection limit N.D.=Not detection in Ersbore and Pike Limit Lancaster, PA 17605-2425
717-656-2306 Fax: 717-656-2681

Analysis Report



Page 2 of 2

Lancaster Laboratories Sample No. 3804292

Collected:04/08/2002 15:50

by FT

Account Number: 10905

Submitted: 04/12/2002 09:45 Reported: 04/22/2002 at 13:17 Chevron Products Company 6001 Bollinger Canyon Road

Discard: 05/23/2002

Building L PO Box 6004

MW-1-W-020408

Water Grab

San Ramon CA 94583-0904

Facility# 206127 Job# 386498

2301-2337 BLANDING-ALAMED NA

NA

M1498

		Laboratory	Chro			Dilution
CAT No.	Analysis Name	Method CA LUFT Diesel Range	Trial#	Analysis Date and Time 04/16/2002 16:02	Analyst Tracy A Cole	Factor
02202 01 729	TPH-DRO CALUFT(Water) w/Si Gel TPH-GRO - Waters	Organics N. CA LUFT Gasoline	1	04/14/2002 05:02	John B Kiser	1
08214 01146 02176	BTEX, MTBE (8021) GC VOA Water Prep Silica Quick Gel Cleanup	Method SW-846 8021B SW-846 5030B SW846, 3630C modified	1 1 1	04/14/2002 05:02 04/14/2002 05:02 04/16/2002 05:30	John B Kiser John B Kiser JoElla L Rice	1 n.a. 1

GRD



Page 1 of 2

Lancaster Laboratories Sample No. WW 3804293

Collected: 04/08/2002 15:14

by FT

Account Number: 10905

Submitted: 04/12/2002 09:45

Reported: 04/22/2002 at 13:17

Discard: 05/23/2002

Grab

Water

Chevron Products Company 6001 Bollinger Canyon Road

Building L PO Box 6004 San Ramon CA 94583-0904

As Received

Facility# 206127 Job# 386498

2301-2337 BLANDING-ALAMED NA

NA

GRD

C2498

CS-2-W-020408

				no necestre		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02202	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	77.	50.	ug/l	1
	According to the California LUFT	Frotocol, the	e quantitation fo	or Diesel		
	Range Organics was performed by	peak area com	parison of the sa	ample pattern		
	to that of our #2 fuel oil reference hydrocarbons).	rence standard	(between C10 and	d C28 normal		
	Site-specific MS/MSD samples wer	re not submitt	ed for the projec	ct. A LCS/LCSD		
	was performed to demonstrate pre	ecision and ac	curacy at a batch	n level.		
	*					
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	· 1 -
	The reported concentration of The					
	gasoline constituents eluting pr	rior to the C6	(n-hexane) TPH-	GRO range		
	start time.					
	A site-specific MSD sample was m					
•	was performed to demonstrate pre	ecision and ac	curacy at a batc	n level.		
08214	BTEX, MTBE (8021)					
00	212 ,					
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 r	ot submitted	for the project.	A LCS/LCSD		
	was performed to demonstrate pre	cision and ac	curacy at a batc	h level.		

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT Analysis Name No.

Method

Analysis Date and Time

Analyst

Dilutic Factor

#=Laboratory MethodDetection Until text evided larget detection limit N.D.=Not detection by England Pike Limit England Pike Limit

Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681



Page 2 of 2

Lancaster Laboratories Sample No. 3804293

Collected: 04/08/2002 15:14 by FT

Submitted: 04/12/2002 09:45 Reported: 04/22/2002 at 13:17

Discard: 05/23/2002

CS-2-W-020408

Grab Water Account Number: 10905

Chevron Products Company 6001 Bollinger Canyon Road Building L PO Box 6004

San Ramon CA 94583-0904

Facility# 206127 Job# 386498

2301-2337 BLANDING-ALAMED NA

GRD

NA

C2498 CA LUFT Diesel Range 04/16/2002 16:47 TPH-DRO CALUFT(Water) w/Si Tracy A Cole 02202 Gel Organics 04/14/2002 05:35 John B Kiser N. CA LUFT Gasoline TPH-GRO - Waters 01729 Method 04/14/2002 05:35 John B Kiser BTEX, MTBE (8021) SW-846 8021B 08214 04/14/2002 05:35 John B Kiser 01146 GC VOA Water Prep SW-846 5030B 1 n.a. Silica Quick Gel Cleanup SW846, 3630C modified 04/16/2002 05:30 JoElla L Rice 02176

717-656-2300 Fax: 717-656-2681

Analysis Report



Page 1 of 2

Client Name: Chevron Products Company

Group Number: 803754

Reported: 04/22/02 at 01:17 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 021030003A TPH-DRO CALUFT(Water) w/Si Gel	Sample nu N.D.	umber(s): 50.	3804292-38 ug/l	04293 95	94	54-120	1	20
Batch number: 02103A16A	Sample nu	mber(s):	3804291					
Веплепе	N.D.	0.5	ug/l	112	111	80-118	1	30
Toluene	N.D.	0.5	ug/l	114	112	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	110	108	81-119	2	30
Total Xylenes	N.D.	1.5	υg/l	111	110	82-120	2	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	97	95	79-127	3	30
TPH-GRO - Waters	N.D.	50.	ug/l	104	107	76-126	3	30
Batch number: 02103A16B	Sample nu	mber(s):	3804292-38	04293				
Benzene	N.D.	0.5	ug/l	112	111	80-118	1	30
Toluene	N.D.	0.5	ug/l	114	112	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	110	108	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	111	110	82-120	2	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	97	95	79-127	3	30
TPH-GRO - Waters	N.D.	50.	ug/l	104	107	76-126	3	30

Sample Matrix Quality Control

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	*REC	*REC	Limits	RPD	<u>XAM</u>	Conc	Conc	RPD	Max
Batch number: 02103A16A	Sample	number	(s): 380429	91					
Benzene	117		77-131						
Toluene	117		80-128						
Ethylbenzene	112		76-132						
Total Xylenes	112		76-132						
Methyl tert-Butyl Ether	100		61-144						
TPH-GRO - Waters	105		74-132						
Batch number: 02103A16B	Sample	number	(s): 380429	92-38042	293				
Benzene	117		77-131						
Toluene	117		80-128						
Ethylbenzene	112		76-132						
Total Xylenes	112		76-132						
Methyl tert-Butyl Ether	100		61-144						
TPH-GRO - Waters	105		74-132						

Surrogate Quality Control

Analysis Name: TPH-DRO CALUFT(Water) w/Si Gel

Batch number: 021030003A Orthoterphenyl

*- 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.



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

Analysis Report



Page 2 of 2

Client Name: Chevron Products Company

Reported: 04/22/02 at 01:17 PM

Group Number: 803754

Surrogate Quality Control

			_	·
3804292	82			
3804293	100			
Blank	100			
LCS	97			
LCSD	96			
Limits:	59-157	Albert Marie Control of the Control		
Analysis N	ame: TPH-GRO - Waters			
Batch numb	er: 02103A16A			
	Trifluorotoluene-F	Trifluorotoluene-P		
3804291	75	99		
Blank	79	99		
LCS	105	98		
LCSD	100	98	•	
MS	124	97		
Limits:	67-135	71-130		
Analysis N	ame: TPH-GRO - Waters			
Batch numb	er: 02103A16B			
	Trifluorotoluene-F	Trifluorotoluene-P		
3804292	156*	102	· · · · · · · · · · · · · · · · · · ·	
3804293	79	98		
Blank	77	98		
LCS	105	98		
LCSD	100	98		
MS	124	97	•	
Limits:	67-135	71-130		

*- 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.

