



GeoStrategies Inc.

2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

(415) 352-4800

July 18, 1991

RECEIVED

JUL 19 1991

Chevron U.S.A.
2410 Camino Ramon
San Ramon, California 94583

GETTLER-RYAN INC.
GENERAL CONTRACTORS

Attn: Nancy Vukelich

Re: **SITE UPDATE**
Chevron Service Station No. 0504
15900 Hesperian Boulevard
San Lorenzo, California

Gentlemen:

This Site Update has been prepared by GeoStrategies Inc. (GSI) and presents the results of the 1991 second quarter ground-water sampling performed by Gettler-Ryan Inc. (G-R) for the above-referenced site (Plate 1). The contents of this document are being furnished at the direction of Chevron U.S.A.

Ground-water sampling was performed by G-R on June 28, 1991. Purge water was collected in 55-gallon drums and stored onsite. Purge water was disposed of at an appropriate treatment and disposal facility determined by Chevron U.S.A. Bailing frequency was reduced this quarter from weekly to monthly.

The certified analytical report and Chain-of-Custody documentation are attached. Data have been summarized in Table 1.

GeoStrategies Inc.

Chevron U.S.A.
July 18, 1991
Page 2

If you have any questions, please call.

GeoStrategies Inc. by,

Noreen Moyle

Noreen Moyle
Environmental Scientist

Randall Young

Randall S. Young
Project Geologist

NM/RSY/mlg

Table 1. Field Monitoring and Ground-water Analysis Data

Plate 1. Site Plan/Potentiometric Map

Attachments: Analytical Laboratory Report and Chain-of-Custody

TABLE 1

FIELD MONITORING AND GROUND-WATER ANALYSIS DATABASE
 15900 Hesperian Boulevard
 San Lorenzo

WELL NUMBER	SAMPLE DATE	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)	WELL ELEV. (FT)	STATIC WATER ELEV. (FT)	PRODUCT THICKNESS (FT)	DEPTH TO WATER (FT)
C-1	05-Jun-89	5100.	250.	170.	200.	990.	33.93	21.93	----	12.00
C-1	08-Dec-89	----	----	----	----	----	33.93	20.80	0.01	13.14
C-1	07-Sep-90	----	----	----	----	----	33.93	19.91	0.03	14.04
C-1	20-Dec-90	----	----	----	----	----	33.93	20.07	0.01	13.87
C-1	15-Mar-91	37000	220	53	580	1900	33.93	22.53	----	11.40
C-1	28-Jun-91	3300	110	6.2	100	350	33.93	21.68	sheen	12.25
C-2	05-Jun-89	130000.	14000.	28000.	3400.	24000.	34.21	22.06	----	12.15
C-2	08-Dec-89	----	----	----	----	----	34.21	20.89	0.15	13.44
C-2	07-Sep-90	----	----	----	----	----	34.21	20.01	0.10	14.28
C-2	20-Dec-90	----	----	----	----	----	34.21	20.16	0.01	14.06
C-2	15-Mar-91	1200000	4700	16000	13000	140000	34.21	22.63	0.01	11.59
C-2	28-Jun-91	150000	3500	4200	2100	16000	34.21	21.66	sheen	12.55
C-3	05-Jun-89	2600.	63.	20.	390.	370.	35.46	22.14	----	13.32
C-3	08-Dec-89	680.	6.	1.	31.	58.	35.46	21.02	----	14.44
C-3	07-Sep-90	490	6	<0.5	41	120	35.46	20.15	----	15.31
C-3	20-Dec-90	100	5	<0.5	27	130	35.46	20.29	----	15.17
C-3	06-Mar-91	1300	7	<0.5	75	250	35.46	22.19	----	13.27
C-3	28-Jun-91	770	6.0	<0.5	81	71	35.46	21.79	----	13.67
C-4	05-Jun-89	<50.	<0.05	<1.	<1.	<3.	35.78	22.21	----	13.57
C-4	08-Dec-89	<500.	<0.5	<0.5	<0.5	<0.5	35.78	21.09	----	14.69
C-4	07-Sep-90	<50	<0.5	<0.5	<0.5	<0.5	35.78	20.20	----	15.58
C-4	20-Dec-90	170	1	<0.5	<0.5	4	35.78	20.36	----	15.42
C-4	06-Mar-91	<50	<0.5	<0.5	<0.5	<0.5	35.78	22.24	----	13.54
C-4	28-Jun-91	<50	<0.5	<0.5	<0.5	<0.8	35.78	21.85	----	13.93
C-5	05-Jun-89	<50.	<0.05	<1.	<1.	<3.	35.31	22.21	----	13.10

TABLE 1

FIELD MONITORING AND GROUND-WATER ANALYSIS DATABASE
15900 Hesperian Boulevard
San Lorenzo

WELL NUMBER	SAMPLE DATE	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)	WELL ELEV. (FT)	STATIC WATER ELEV. (FT)	PRODUCT THICKNESS (FT)	DEPTH TO WATER (FT)
C-5	08-Dec-89	<500	<0.5	<0.5	<0.5	<0.5	35.31	21.09	----	14.22
C-5	07-Sep-90	<50	<0.5	<0.5	<0.5	<0.5	35.31	20.21	----	15.10
C-5	20-Dec-90	80	<0.5	<0.5	<0.5	<0.5	35.31	20.37	----	14.94
C-5	06-Mar-91	<50	<0.5	<0.5	<0.5	<0.5	35.31	22.25	----	13.06
C-5	28-Jun-91	<50	<0.5	<0.5	<0.5	<0.5	35.31	21.85	----	13.46
C-6	08-Dec-89	<500	<0.5	<0.5	<0.5	<0.5	36.89	20.94	----	15.95
C-6	07-Sep-90	57	<0.5	<0.5	0.6	4	36.89	20.06	----	16.83
C-6	20-Dec-90	<50	<0.5	<0.5	<0.5	<0.5	36.89	20.23	----	16.66
C-6	06-Mar-91	<50	<0.5	<0.5	<0.5	<0.5	36.89	22.09	----	14.80
C-6	28-Jun-91	<50	<0.5	<0.5	<0.5	<0.5	36.89	21.73	----	15.16
C-7	08-Dec-89	1700.	32.	12.	17.	150.	32.75	20.63	----	12.12
C-7	07-Sep-90	880	84	23	46	180	32.75	19.73	----	13.02
C-7	20-Dec-90	560	24	3	19	21	32.75	20.47	----	12.28
C-7	06-Mar-91	240	25	2	4	26	32.75	15.83	----	16.92
C-7	28-Jun-91	2600	130	13	82	220	32.75	21.44	----	11.31
C-8	08-Dec-89	4800.	62.	11.	95.	180.	33.82	20.37	----	13.45
C-8	07-Sep-90	3700	170	31	180	270	33.82	19.50	----	14.32
C-8	20-Dec-90	3900	120	20	130	180	33.82	19.61	----	14.21
C-8	06-Mar-91	1200	45	6	34	57	33.82	19.02	----	14.80
C-8	28-Jun-91	6900	180	46	340	640	33.82	21.17	----	12.65
C-9	07-Sep-90	<50	<0.5	<0.5	<0.5	<0.5	33.43	19.37	----	14.06
C-9	20-Dec-90	<50	<0.5	<0.5	<0.5	<0.5	33.43	19.40	----	14.03
C-9	06-Mar-91	<50	<0.5	<0.5	<0.5	<0.5	33.43	21.31	----	12.12
C-9	28-Jun-91	<50	<0.5	<0.5	<0.5	<0.5	33.43	21.02	----	12.41
C-10	07-Sep-90	<50	<0.5	<0.5	<0.5	<0.5	31.63	19.14	----	12.49

TABLE 1

FIELD MONITORING AND GROUND-WATER ANALYSIS DATABASE
15900 Hesperian Boulevard
San Lorenzo

WELL NUMBER	SAMPLE DATE	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)	WELL ELEV. (FT)	STATIC WATER ELEV. (FT)	PRODUCT THICKNESS (FT)	DEPTH TO WATER (FT)
C-10	20-Dec-90	<50	<0.5	<0.5	<0.5	<0.5	31.63	19.27	----	12.36
C-10	06-Mar-91	<50	<0.5	0.8	<0.5	0.8	31.63	21.18	----	10.45
C-10	28-Jun-91	<50	<0.5	<0.5	<0.5	<0.5	31.63	20.89	----	10.74
C-11	07-Sep-90	<50	<0.5	<0.5	<0.5	<0.5	31.58	19.36	----	12.22
C-11	20-Dec-90	<50	<0.5	<0.5	<0.5	<0.5	31.58	19.50	----	12.08
C-11	06-Mar-91	<50	<0.5	<0.5	<0.5	<0.5	31.58	15.43	----	16.15
C-11	28-Jun-91	<50	<0.5	<0.5	<0.5	<0.5	31.58	21.06	----	10.52
CD-3	28-Jun-91	990	5.5	<0.5	86	75	----	----	----	----
TB	28-Jun-91	<50	<0.5	<0.5	<0.5	<0.5	----	----	----	----

*Duplicate of
CB - according to
Moreen Hoyle
of Geo Strategies*

TABLE 1

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FIELD MONITORING AND GROUND-WATER ANALYSIS DATABASE
15900 Hesperian Boulevard
San Lorenzo

=====

Current Regional Water Quality Control Board Maximum Contaminant Levels

Benzene 1. ppb Xylenes 1750. ppb Ethylbenzene 680. ppb

Current DHS Action Levels Toluene 100.0 ppb

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline

PPB = Parts Per Billion CD = Duplicate Sample CF = Field Blank TB = Trip Blank

NOTE: 1. All data shown as <X are reported as ND (not detected).

2. Water level elevations referenced to mean sea level (MSL).

3. DHS Action levels and MCL's are subject to change pending
State of California review.

4. Total Petroleum Hydrocarbons calculated as Diesel were reported as ND in Well C-4 sampled
on December 8, 1989.

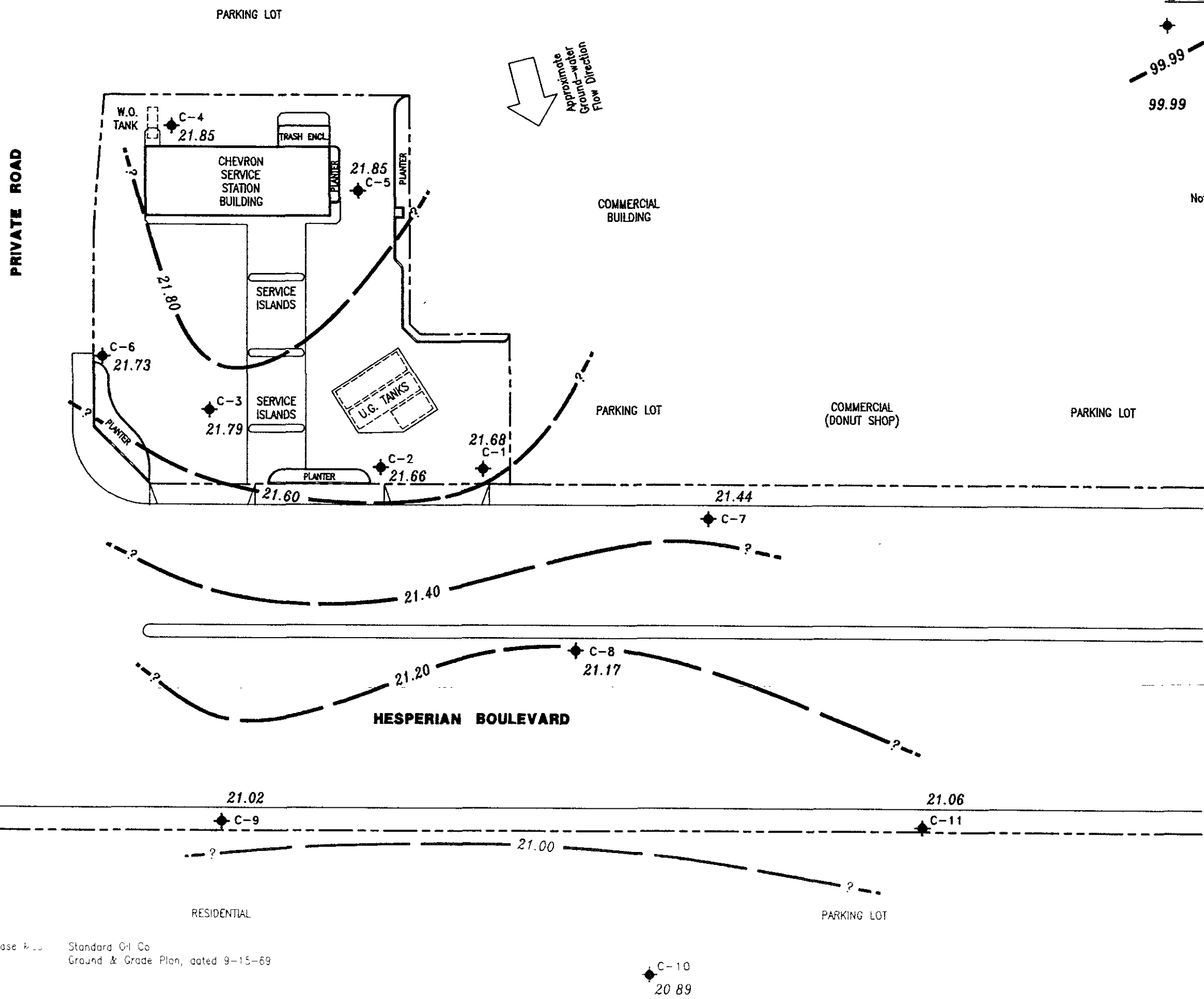
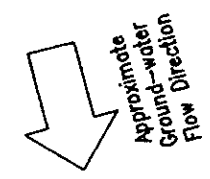
5. Total Oil and Grease was reported as ND in Well C-4 sampled on December 8, 1989, and
on September 7, 1990.

6. Total Petroleum Hydrocarbons calculated as Oil were reported as ND in well C-4 sampled
on June 5, 1989.

EXPLANATION

- ◆ Ground-water monitoring well
- 99.99 - Ground-water elevation contour
Approximate Gradient = 0.003
- 99.99 Ground-water elevation in feet
referenced to Mean Sea Level
(MSL) measured on June 28,
1991

Note: 1. Contours may be influenced by irrigation practices and/or site construction activities.



Base Map Standard Oil Co
Ground & Grade Plan, dated 9-15-69

SITE PLAN / POTENTIOMETRIC MAP
Chevron Service Station #0504
15900 Hesperian Blvd.
San Lorenzo, California

GeoStrategies Inc.



REVIEWED BY: RSY
DATE: 7/91
JOB NUMBER: 725901-11
REVISED DATE:

SUPERIOR ANALYTICAL LABORATORY, INC.

1555 BURKE UNIT I • SAN FRANCISCO CA 94124 • PHONE (415) 647-2081 • E.P. DOHS #1332

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 12032
 CLIENT: Chevron, USA
 CLIENT JOB NO.: 3259.01

DATE RECEIVED: 07/02/91
 DATE REPORTED: 07/09/91

Page 1 of 3

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
12032- 1	C-1	06/28/91	07/04/91
12032- 2	C-2	06/28/91	07/04/91
12032- 3	C-3	06/28/91	07/04/91
12032- 4	C-4	06/28/91	07/04/91
12032- 5	C-5	06/28/91	07/04/91
12032- 6	C-6	06/28/91	07/04/91
12032- 7	C-7	06/28/91	07/04/91
12032- 8	C-8	06/28/91	07/04/91
12032- 9	C-9	06/28/91	07/04/91
12032-10	C-10	06/28/91	07/04/91

Laboratory Number:	12032 1	12032 2	12032 3	12032 4	12032 5
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ANALYTE LIST	Amounts/Quantitation Limits (ug/L)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	3300	150000	770	ND<50	ND<50
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	110	3500	6.0	ND<0.5	ND<0.5
TOLUENE:	6.2	4200	ND<0.5	ND<0.5	ND<0.5
ETHYL BENZENE:	100	2100	81	ND<0.5	ND<0.5
XYLENES:	350	16000	71	0.8	ND<0.5

Laboratory Number:	12032 6	12032 7	12032 8	12032 9	12032 10
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ANALYTE LIST	Amounts/Quantitation Limits (ug/L)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<50	2600	6900	ND<50	ND<50
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<0.5	130	180	ND<0.5	ND<0.5
TOLUENE:	ND<0.5	13	46	ND<0.5	ND<0.5
ETHYL BENZENE:	ND<0.5	82	340	ND<0.5	ND<0.5
XYLENES:	ND<0.5	220	640	ND<0.5	ND<0.5

OUTSTANDING QUALITY AND SERVICE

SUPERIOR ANALYTICAL LABORATORY, INC.

1555 BURKE UNIT I • SAN FRANCISCO CA 94124 • PHONE (415) 647-2081

DOHS #1332

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 12032
CLIENT: Chevron, USA
CLIENT JOB NO.: 3259.01

DATE RECEIVED: 07/02/91
DATE REPORTED: 07/09/91

Page 2 of 3

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
12032-11	C-11	06/28/91	07/04/91
12032-12	CD-3	06/28/91	07/05/91
12032-13	Trip Blank	06/28/91	07/04/91

Laboratory Number:	12032 11	12032 12	12032 13
--------------------	-------------	-------------	-------------

ANALYTE LIST	Amounts/Quantitation Limits (ug/L)		
OIL AND GREASE:	NA	NA	NA
TPH/GASOLINE RANGE:	ND<50	990	ND<50
TPH/DIESEL RANGE:	NA	NA	NA
BENZENE:	ND<0.5	5.5	ND<0.5
TOLUENE:	ND<0.5	ND<0.5	ND<0.5
ETHYL BENZENE:	ND<0.5	86	ND<0.5
XYLENES:	ND<0.5	75	ND<0.5

OUTSTANDING QUALITY AND SERVICE

SUPERIOR ANALYTICAL LABORATORY, INC.

1555 BURKE UNIT I • SAN FRANCISCO CA 94124 • PHONE (415) 647-2081

DOHS #1332

C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 3 of 3
QA/QC INFORMATION
SET: 12032

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
ug/l = part per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 503E:
Minimum Detection Limit in Water: 5000ug/L

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 50ug/l
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Water: 50ug/l
Standard Reference: 08/24/90

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/l
Standard Reference: 04/09/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	08/24/90	200ng	91/88	4.4	63-111
Benzene	04/09/91	200ng	101/104	2.9	72-119
Toluene	04/09/91	200ng	101/101	0.5	70-116
Ethyl Benzene	04/09/91	200ng	104/105	1.4	73-119
Total Xylene	04/09/91	600ng	104/105	1.4	71-118

Richard Srna, Ph.D.

Cecilia Gougeon (for)
Laboratory Director

OUTSTANDING QUALITY AND SERVICE

Sf # 12032

Chain-of-Custody-Record

Chevron U.S.A. Inc.
 P.O. BOX 5004
 San Ramon, CA 94583
 FAX (415)842-9591

Chevron Facility Number 0504
 Facility Address 15900 Hesperian Blvd - Hayward
 Consultant Project Number 3259.01
 Consultant Name Gettle - Ryan Inc
 Address 2150 W. Winton Ave - Hayward
 Project Contact (Name) Tom Paulson
 (Phone) (415) 7837500 (Fax Number)

Chevron Contact (Name) Nancy Vakelech
 (Phone) _____
 Laboratory Name Superior
 Laboratory Release Number 2472450
 Samples Collected by (Name) Guadalupe Sanchez
 Collection Date 6-23-91
 Signature Guadalupe Sanchez

Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed										Remarks			
							BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Chlorinated HC (8010)	Non Chlorinated HC (8020)	Total Lead (AA)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)							
C-1	2	W		11:54	HCL	Yes	✓													
C-2				11:31			✓													
C-3				10:44			✓													
C-4				9:16			✓													
C-5				9:48			✓													
C-6				10:25			✓													
C-7				08:37			✓													
C-8				09:20			✓													
C-9				09:50			✓													
C-10				12:25			✓													
C-11				12:48			✓													
CD-3	✓			-			✓													
trip	1			-			✓													

Relinquished By (Signature) <u>Guadalupe Sanchez</u>	Organization <u>Gettle-Ryan</u>	Date/Time <u>6-28-91 16:00</u>	Received By (Signature) <u>Kevin #1</u>	Organization <u>CEK</u>	Date/Time <u>6-28-91 16:00</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) <u>Kevin #1</u>	Organization <u>CEK</u>	Date/Time <u>6-29 08:00</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>CEK</u>	Date/Time <u>6-29 08:00</u>	
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>CEK</u>	Date/Time <u>7-2-91 13:30</u>	Received For Laboratory By (Signature) <u>[Signature]</u>	Date/Time <u>7/07/91</u>		

COC-1.DWG/11 90/HCH

SUPERIOR ANALYTICAL LABORATORY, INC.

1555 BURKE UNIT I • SAN FRANCISCO CA 94124 • PHONE (415) 647-2081

DOHS #1332

MOCK INVOICE

Chevron USA
P.O. Box 5004
San Ramon, CA 94583

Date: 07/09/91
Date Rcvd: 07/02/91
Date Rptd: 07/09/91
Our Job #: 12032
Invoice #: 12032

Gettler Ryan Inc. Job # 3259.01
Chevron USA Release # 2472450

Facility #: 0504

QTY/MATRIX	ANALYSIS	EXT. PRICE
-----	-----	-----
13 WATER	sample(s) for VPH-BTXE @ \$0.00 (NORMAL)	0.00
		=====
TOTAL INVOICE		0.00

Please Send Payment To:
Superior Analytical Labs
P.O. Box 1545
Martinez, CA 94553

TERMS: NET 30

A charge of 1.5% per month may be applied to unpaid balances

OUTSTANDING QUALITY AND SERVICE

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 0504
Facility Address 15900 Hepperian Blvd - Hayward
Consultant Project Number 3259.01 San Lorenzo
Consultant Name Gottler-Ryan Inc
Address 2550 W. Winton Ave - Hayward
Project Contact (Name) Tom Paulson
(Phone) (415) 783-7500 (Fax Number)

Chevron Contact (Name) Nancy Vakehlich
(Phone) _____
Laboratory Name Superior
Laboratory Release Number 2472450
Samples Collected by (Name) Guadalupe Sanchez
Collection Date 6-28-91
Signature Guadalupe Sanchez

Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analytes To Be Performed										Remarks		
							BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Chlorinated HC (8010)	Non Chlorinated HC (8020)	Total Lead (AA)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)						
C-1	2	W		11:54	HCl	Yes	✓												
C-2	1			11:31			✓												
C-3	1			10:44			✓												
C-4	1			9:16			✓												
C-5	1			9:48			✓												
C-6	1			10:25			✓												
C-7	1			08:37			✓												
C-8	1			09:20			✓												
C-9	1			09:50			✓												
C-10	1			12:25			✓												
C-11	1			12:48			✓												
CD-3	✓			-			✓												
Trip	1	W		-			✓												

Please initial: OK
 Samples Stored in ice. yes
 Appropriate containers. yes
 Samples preserved. yes
 No. of containers without headspace. NO
 Comments: OK

Relinquished By (Signature) <u>Guadalupe Sanchez</u>	Organization <u>Gottler-Ryan</u>	Date/Time <u>6-28-91 16:00</u>	Received By (Signature) <u>Kelvig #1</u>	Organization <u>CR</u>	Date/Time <u>6-28-91 16:00</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) <u>Kelvig #1</u>	Organization <u>CR</u>	Date/Time <u>7-2-91 08:00</u>	Received By (Signature) <u>Paulson</u>	Organization <u>CR</u>	Date/Time <u>7-2-91 08:00</u>	
Relinquished By (Signature) <u>Paulson</u>	Organization <u>CR</u>	Date/Time <u>7-2-91 13:30</u>	Received For Laboratory By (Signature) <u>Paulson #1</u>		Date/Time <u>7/02/91 13:30</u>	

COC - I.DWG/11 90/HCH