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Chevron

Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583

Marketing Department
Phone 510 842 9500

May 3, 1993

Ms. Juliet Shin
Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland, CA 94621

Re: Former Chevron Service Station #9-5630
997 Grant Avenue, San Lorenzo

Dear Ms. Shin:

Enclosed we are forwarding the Quarterly Ground Water Sampling Report dated April 23, 1993, prepared by our consultant Sierra Environmental Services for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. Samples were also collected from newly installed well C-5. All samples reported non-detectable concentrations of these constituents. Depth to ground water was measured at approximately 6.6 to 7.9-feet below grade, and the direction of flow is to the west-southwest.

Chevron will continue to monitor this site and report findings on a quarterly basis. At completion of two (2) additional rounds of monitoring events, we evaluate the site for appropriate next actions with respect to closure. If you have any questions or comments, please do not hesitate to contact me at (510) 842-9581.

Very truly yours,
CHEVRON U.S.A. PRODUCTS COMPANY

Nancy Vukelich
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Rich Hiett, RWQCB-Bay Area
Ms. B.C. Owen
File (9-5630Q7)

Ms. Beth Castleberry
Ware & Freidenrich
400 Hamilton Avenue
Palo Alto, CA 94301-1825

APR 30 '93 J.M.M.

SIERRA
Environmental Services

April 23, 1993

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

Re: Former Chevron Service Station #9-5630
997 Grant Avenue
San Lorenzo, California
SES Project #1-206-04

Dear Ms. Vukelich:

This report presents the results of the quarterly ground water sampling at former Chevron Service Station #9-5630, located at 997 Grant Avenue in San Lorenzo, California. Four wells, C-1, C-2, C-3 and C-5, were sampled (Figure 1).

On March 23, 1993, SES personnel visited the site. Water level measurements were collected in all site wells and all wells were checked for the presence of free-phase hydrocarbons. Free-phase hydrocarbons were not present in any of the site wells. Water level data are shown in Table 1 and ground water elevation contours are included on Figure 1.

The ground water samples were collected on March 23, 1993 in accordance with SES Standard Operating Procedure - Ground Water Sampling (attached). All analyses were performed by Superior Precision Analytical, Inc. of Martinez, California. Analytic results for ground water are presented in Table 2. The chain of custody document and laboratory analytic reports are attached. SES is not responsible for laboratory omissions or errors.

Thank you for allowing us to provide services to Chevron. Please call if you have any questions.

REGISTERED PROFESSIONAL ENGINEER
CHRIS J. BRAMER
C 048846
9/96
CIVIL
STATE OF CALIFORNIA

Sincerely,
Sierra Environmental Services

Argy Mena
Staff Geologist

Chris J. Bramer
Professional Engineer #C48846

AJM/CJB/dcp
20604QM.AP3

Attachments: Figure
Tables
SES Standard Operating Procedure
Chain of Custody Document and Laboratory Analytic Reports

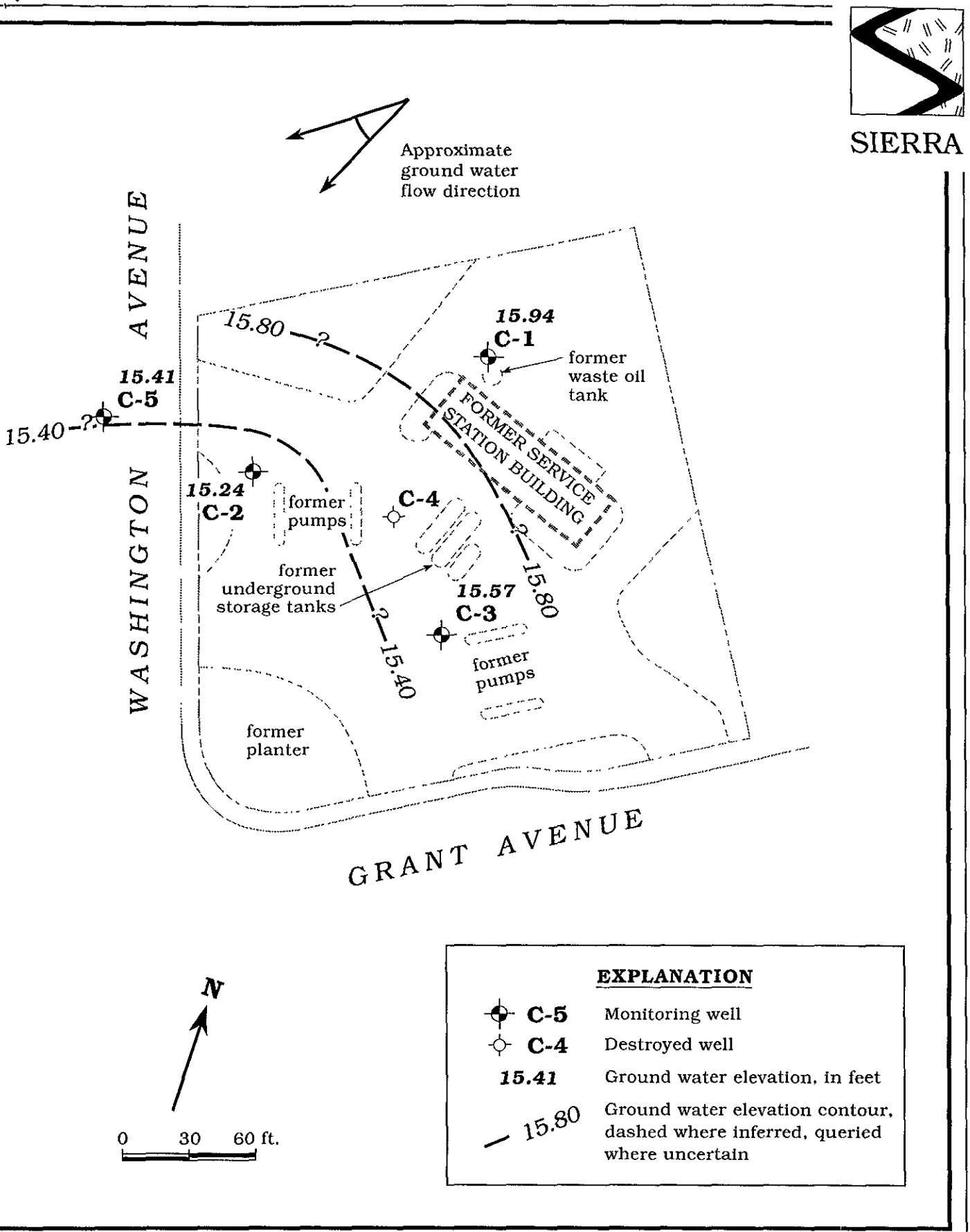

Figure 1. Monitoring Well Locations and Ground Water Elevation Contour Map - March 23, 1993 - Former Chevron Service Station #9-5630, 997 Grant Avenue, San Lorenzo, California

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Table 1. Water Level Data and Well Construction Details - Former Chevron Service Station #9-5630, 997 Grant Avenue, San Lorenzo, California

Well ID	Date Measured	DTW (ft)	TOC (ft)	GWE (msl)	Product Thickness* (ft)	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
						<----------feet below grade---------->		
C-1	12/5/90	12.44	24.08[1]	11.64	0	15 - 28	13 - 28	0 - 13
	9/6/91	13.20	23.88[2]	10.68	0			
	12/4/91	11.71		12.17	0			
	4/2/92	9.43		14.45	0			
	6/3/92	10.14		13.74	0			
	9/2/92	11.79		12.09	0			
	12/1/92	11.78		12.10	0			
	3/23/93	**7.94**		**15.94**	**0**			
C-2	12/5/90	11.30	22.69[1]	11.39	0	15 - 28	13 - 28	0 - 13
	9/6/91	11.00	21.54[2]	10.54	0			
	12/4/91	9.38		12.16	0			
	4/2/92	7.33		14.21	0			
	6/3/92	8.99		12.55	0			
	9/2/92	9.59		11.95	0			
	12/1/92	9.58		11.96	0			
	3/23/93	**6.30**		**15.24**	**0**			
C-3	12/5/90	11.75	23.45[1]	11.70	0	17 - 27	15 - 27	0 - 15
	9/6/91	11.62	22.40[2]	10.78	0			
	12/4/91	10.14		12.26	0			
	4/2/92	8.07		14.33	0			
	6/3/92	8.63		13.77	0			
	9/2/92	10.30		12.10	0			
	12/1/92	10.24		12.16	0			
	3/23/93	**6.83**		**15.57**	**0**			
C-4	12/5/90	11.85	23.32[1]	11.47	0	17 - 29	17 - 29	0 - 15
	9/6/91[3]	---	---	---	---			
	12/4/91[3]	---	---	---	---			
C-5	2/16/93	6.64	22.01[4]	15.37	0	---	---	---
	3/23/93	**6.60**		**15.41**	**0**			

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Table 1. Water Level Data and Well Construction Details - Former Chevron Service Station #9-5630, 997 Grant Avenue, San Lorenzo, California (continued)

EXPLANATION:

DTW = Depth to water
TOC = Top of casing elevation
GWE = Ground water elevation
msl = Measurements referenced relative to mean sea level
--- = Not applicable

NOTE:

* SES product thicknesses were measured with an MMC flexi-dip interface probe.
[1] Well head elevations taken from the Preliminary Site Assessment/Well Installation Report prepared by GeoStrategies, Inc., dated February 8, 1991.
[2] Top of Casing elevations surveyed by Ron Miller, P.E. #15816, on April 2, 1992. Ground water elevations prior to this date, corrected using this survey data.
[3] Well was destroyed during tank removal and soil excavation operations.
[4] Top of casing elevation compiled from the Groundwater Technology Inc., report prepared for Chevron. Well construction details for C-5 not available for inclusion in this report.

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Table 2. Analytic Results for Ground Water - Former Chevron Service Station #9-5630, 997 Grant Avenue, San Lorenzo, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G)	B	T	E	X	O&G
				<----------ppb---------->					
C-1	12/5/90	SAL	8015/8020/503E	<50	<0.5	<0.5	<0.5	<0.5	<5,000
	9/6/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	12/4/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/2/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<5,000
	6/3/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	9/2/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	12/1/92	SPA	8015/8020	<50	0.6	3.5	0.7	3.4	---
	3/23/93	**SPA**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**---**
C-2	12/5/90	SAL	8015/8020	<50	0.7	<0.5	<0.5	0.5	---
	9/6/91	SPA	8015/8020	<50	1.3	0.6	0.7	1.5	---
	12/4/91[2]	---	---	---	---	---	---	---	---
	4/2/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	6/3/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	9/2/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	12/1/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	3/23/93	**SPA**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**---**
C-3	12/5/90	SAL	8015/8020	<50	1	0.7	<0.5	<0.5	---
	9/6/91	SPA	8015/8020	1,100	150	0.6	51	1.9	---
	12/4/91	SPA	8015/8020	89	<0.5	<0.5	0.7	0.6	---
	4/2/92	SPA	8015/8020	60	2.1	1.3	1.1	3.2	---
	6/3/92	SPA	8015/8020	180	3.0	1.4	0.6	1.5	---
	9/2/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	0.9	---
	12/1/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	3/23/93	**SPA**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**---**
C-4	12/5/90	SAL	8015/8020	<50	4	2	0.7	3	---
	9/6/91[1]	---	---	---	---	---	---	---	---
C-5	2/16/93[3]	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	3/23/93	**SPA**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**---**

Table 2. Analytic Results for Ground Water - Former Chevron Service Station #9-5630, 997 Grant Avenue, San Lorenzo, California (continued)

Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G)	B	T	E	X	O&G
				<----------ppb---------->					
AA	12/5/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
(Trip Blank)	9/6/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	12/4/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/2/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
TB-LB	6/3/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	9/2/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	12/1/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	3/23/93	**SPA**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	---
BB	9/6/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
(Bailer Blank)	12/4/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/2/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	6/3/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	9/2/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	0.4	---
	12/1/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	3/23/93	**SPA**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	---

EXPLANATION:

TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
O&G = Total Oil and Grease
--- = Not analyzed/Not applicable
DHS = Department of Health Services
MCLs = Maximum Contaminant Levels
RALs = Recommended Action Levels
NE = Not established
ppb = Parts per billion

ANALYTIC METHODS:

8015 = EPA Method 8015/5030 for TPPH(G)
8020 = EPA Method 8020 for BTEX
503E = Standards Method Method 503E for O&G

ANALYTIC LABORATORY:

SAL = Superior Analytical Laboratory of San Francisco, California
SPA = Superior Precision Analytical, Inc. of Martinez, California

NOTE:

[1] Well was destroyed during tank removal and soil excavation operations.
[2] Well obstructed, therefore could not be sampled.
[3] Analytic laboratory information for this event not available for inclusion in this report. Analytic methods used are assumed to be 8015/8020. Analytic data compiled from the Groundwater Technology Inc., report prepared for Chevron.

SIERRA

SES STANDARD OPERATING PROCEDURE
GROUND WATER SAMPLING

The following describes sampling procedures used by SES field personnel to collect and handle ground water samples. Before samples are collected, careful consideration is given to the type of analysis to be performed so that precautions are taken to prevent loss of volatile components or contamination of the sample, and to preserve the sample for subsequent analysis. Wells will be sampled no less than 24 hours after well development. Collection methods specific to ground water sampling are presented below.

Prior to sampling, each well is checked for the presence of free-phase hydrocarbons using an MMC flexi-dip interface probe. Product thickness (measured to the nearest 0.01 foot) is noted on the sampling form. Water level measurements are also made using either a water level meter or the interface probe. The water level measurements are also noted on the sampling form.

Prior to sampling, each well is purged of a minimum of four well casing volumes of water using a steam-cleaned PVC bailer, or a pre-cleaned pump. Temperature, pH and electrical conductivity are measured at least three times during purging. Purging is continued until these parameters have stabilized (i.e., changes in temperature, pH or conductivity do not exceed ±0.5°F, 0.1 or 5%, respectively).

The purge water is taken to Chevron's Richmond Refinery for disposal.

Ground water samples are collected from the wells with steam-cleaned Teflon bailers. The water samples are decanted into the appropriate container for the analysis to be performed. Pre-preserved sample containers may be used or the analytic laboratory may add preservative to the sample upon arrival. Duplicate samples are collected from each well as a back-up sample and/or to provide quality control. The samples are labeled to include the project number, sample ID, date, preservative, and the field person's initials. The samples are placed in polyethylene bags and in an ice chest (maintained at 4°C with blue ice or ice) for transport under chain of custody to the laboratory.

The chain of custody form includes the project number, analysis requested, sample ID, date analysis and the SES field person's name. The form is signed and dated (with the transfer time) by each person who yields or receives the samples beginning with the field personnel and ending with the laboratory personnel.

A trip blank and bailer blank accompanies each sampling set, or 5% trip blanks and 5% bailer blanks are included for sets of greater than 20 samples. The bailer blank is prepared by pouring previously boiled water into a steam-cleaned Teflon bailer prior to sampling a well. The trip and bailer blanks are analyzed for some or all of the same compounds as the ground water samples.

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☒ No

77193

Chain-of-Custody-Record

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

Chevron Facility Number 9-5630
Facility Address 997 GRANT AVE, San LORENZO
Consultant Project Number 1-2016-04
Consultant Name SIERRA ENVIRONMENTAL
Address PO BOX 2546, MARTINEZ, CA
Project Contact (Name) AZAY MENA
(Phone) (510) 370-1280 (Fax Number) (510) 370-7954

Chevron Contact (Name) MS. NANCY VUKELICH
(Phone) 842-9581
Laboratory Name SUPERIOR PRECISION ANALYTICAL
Laboratory Release Number 424 7210
Samples Collected by (Name) R. HILTON
Collection Date 3/23/93
Signature

Sample Number	Lab 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)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)					Remarks
																				Analyses To Be Performed
TB-LB		3	W	G	1130	HCl	Y	✓												Analyze in
BB		3	W	G	1136	HCl	Y	✓												LISTED ORDER
C-1		3	W	G	1254	HCl	Y	✓												
C-3		3	W	G	1304	HCl	Y	✓												
C-2		3	W	G	1315	HCl	Y	✓												
C-5		3	W	G	1146	HCl	Y	✓												

Please initial: AS
Samples Stored in ice: ✓ 4°C
Appropriate containers: ✓
Samples preserved: ✓
VOA's without headspace: ✓
Comments:

Note:
Do Not Bill
TB-LB Samples

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	SES	3/23/93 1600			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					3/23/93 4:00

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

3/23/93

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

Sierra Environmental
Attn: ARGY MENA

Project 1-206-04
Reported 03/30/93

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed	Matrix
88133- 1	TB-LB	03/23/93	03/27/93	Water
88133- 2	BB	03/23/93	03/25/93	Water
88133- 3	C-1	03/23/93	03/31/93	Water
88133- 4	C-3	03/23/93	03/26/93	Water
88133- 5	C-2	03/23/93	03/25/93	Water
88133- 6	C-5	03/23/93	03/26/93	Water

RESULTS OF ANALYSIS

Laboratory Number:	88133- 1	88133- 2	88133- 3	88133- 4	88133- 5
Gasoline:	ND<50	ND<50	ND<50	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Xylenes:	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number:	88133- 6
Gasoline:	ND<50
Benzene:	ND<0.5
Toluene:	ND<0.5
Ethyl Benzene:	ND<0.5
Xylenes:	ND<1.5
Concentration:	ug/L

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

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

QA/QC INFORMATION
SET: 88133

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

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	100/88	13%	70-130
Benzene:	102/91	11%	70-130
Toluene:	103/93	10%	70-130
Ethyl Benzene:	105/95	10%	70-130
Xylenes:	103/93	10%	70-130

Richard Srna, Ph.D.
Jolomina V Sanguiliz (for)
Laboratory Director