Chevron U.S.A. Products Company
2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

Marketing Department

March 3, 1992

Mr. Scott Seery
Alameda County Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Re: Chevron Service Station #9-3356
19201 Center Street, Castro Valley, CA 94546

Mr. Seery:

Enclosed is the quarterly groundwater monitoring and sampling report dated February 27, 1992. During this sampling period, all groundwater samples were nondetect (ND) for total petroleum hydrocarbon as gasoline (TPH-G), benzene, toluene, ethylbenzene, and xylenes (BTEX). Depth to water ranged from 14.73 feet to 19.81 feet.

Another quarter of monitoring and sampling will be performed. If the results indicate nondetectable levels of dissolved hydrocarbons as it has for the last three quarters or more, then Chevron will request closure for this site.

If you have any questions or comments, please feel free to call me at (510) 842-8752.

Sincerely,

Kenneth Kan

Kenneth Kan
Engineer

92 MAR -5 AM 9:09

LKAN/MacFile 9-3356R

Enclosure

cc: Mr. Eddie So
RWQCB-S.F.Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Mr. William Scudder
Chevron U.S.A., Inc.

ALTON GEOSCIENCE
THE RESULTS TEAM

reviewed 12/11/92
EOS
MAR 92 T.L.H.

February 27, 1992

Mr. Kenneth Kan
Chevron U.S.A., Inc.
Post Office Box 5004
San Ramon, California 94583-0804

31-0299

Subject: Quarterly Ground Water Monitoring Report
Chevron Station No. 9-3356
19201 Center Street,
Castro Valley, California

Dear Mr. Kan:

In accordance with our agreement, Alton Geoscience transmits this Quarterly Ground Water Monitoring and Sampling Report for Chevron Station No. 9-3356, located at 19201 Center Street, Castro Valley, California. Figure 1 shows the site location.

Monitoring and sampling of the ground water monitoring wells were performed on January 23, 1992, in accordance with the requirements and procedures of the California Regional Water Quality Control Board (RWQCB) and local regulatory agencies.

FIELD PROCEDURES

Prior to purging and sampling the wells, each well was checked for liquid-phase hydrocarbons or sheen. The depth to ground water and, if present, free product in each well was measured from the top of casing using an electronic interface probe with 0.01 foot tolerance.

Ground water analytical samples were collected using a clean bailer after more than 3 casing volumes of ground water were purged from each well. Ground water samples were then decanted into the appropriate clean sample containers for delivery to a California-certified laboratory following proper preservation and chain of custody procedures. Purged ground water was stored onsite in DOT-approved, 55-gallon drums pending pick-up and delivery by Erickson Inc. as non-hazardous to Gibson Oil/ Pilot Petroleum of Redwood City, California, for recycling.

5870 Stoneridge Drive, Suite 6
Pleasanton, California 94588
(510) 734-8134 • FAX (510) 734-8420

SAMPLING AND ANALYTICAL RESULTS

The results of the monitoring and laboratory analyses of the ground water samples for this quarter, as well as the results of previous monitoring and sampling events, are summarized in Table 1. Based on the previous wellhead elevation survey data and depth to water measurements collected during this monitoring event, ground water elevations and the general ground water gradient direction at this site are presented in Figure 2.

No liquid-phase hydrocarbons or sheen were observed in any of the ground water samples. The official laboratory reports and chain of custody records are included in Appendix A.

Please call Todd B. Pearson at (510) 734-8134 if you have any questions concerning this report.

Sincerely,

ALTON GEOSCIENCE,

Todd B. Pearson
Staff Scientist

Robert E. Logan R.G. 5088
Manager, Northern California Operations

wp93356tp

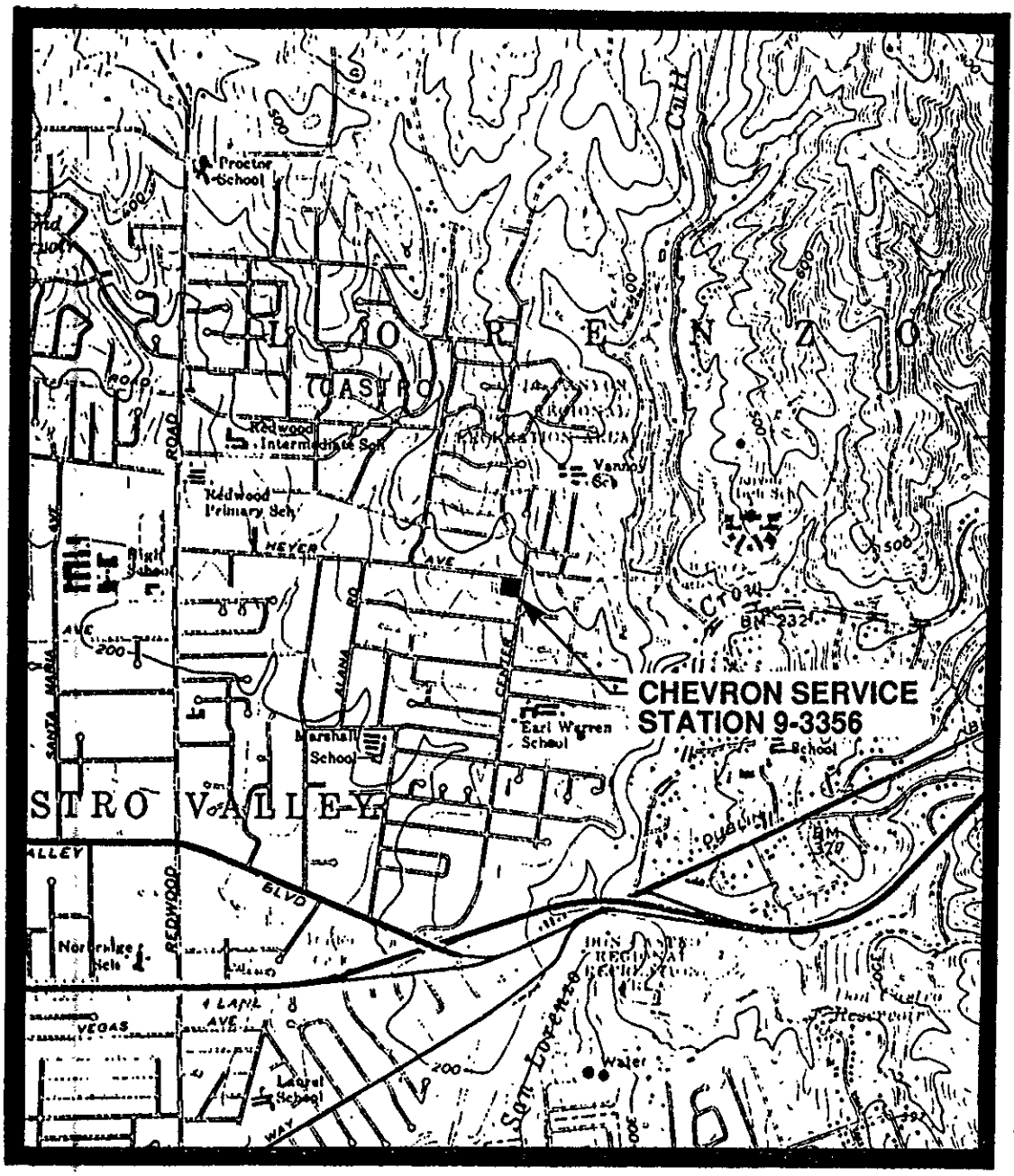


FIGURE 1: SITE VICINITY MAP

CHEVRON SERVICE STATION NO. 9 - 3356
19201 CENTER STREET
CASTRO VALLEY, CALIFORNIA

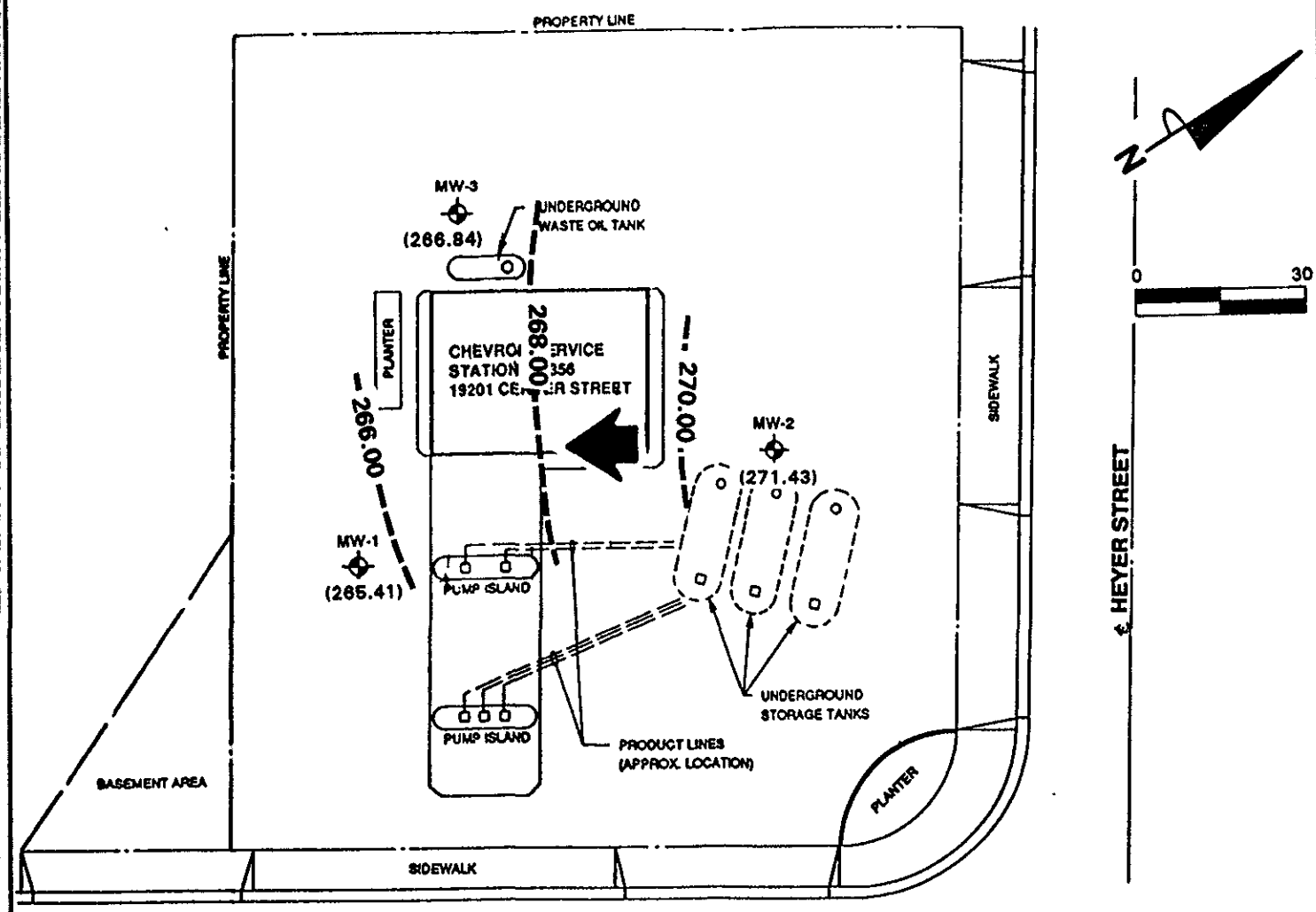
PROJECT NO. 31-0299

0 2000

APPROXIMATE SCALE IN FEET

SOURCE: U.S.G.S. MAP, HAYWARD QUADRANGLE, CALIFORNIA 7.5 MINUTE SERIES (TOPOGRAPHIC) PHOTOED 1959. PHOTOREVISED 1980.

ALTON GEOSCIENCE
1000 Burnett Ave., Ste. 140
Concord, CA 94520



LEGEND:

- GROUND WATER MONITORING WELL
- (265.41) GROUND WATER ELEVATION (FEET ABOVE MEAN SEA LEVEL [NGVD-1929])
- GROUND WATER ELEVATION CONTOUR
- GENERAL GROUND WATER GRADIENT DIRECTION

NOTE:

1. CONTOUR LINES ARE INTERPRETIVE BASED ON FLUID LEVELS IN MONITORING WELLS MEASURED ON **1-23-92**

SOURCE: CHEVRON U.S.A.

PROJECT NO. 31-0299

FIGURE 2.

GROUND WATER ELEVATION CONTOUR MAP

CHEVRON SERVICE STATION
NO. 9-3356
19201 CENTER STREET
CASTRO VALLEY, CALIFORNIA

ALTON GEOSCIENCE
1000 Burnett Ave. Ste. 140
Concord, California

31-0299

Table 1
Summary of Results of Ground Water Sampling
Chevron Service Station No. 9-3356
19201 Center Street, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	TPH-G	HVOC	TOG	B	T	E	X	ORG-Pb	LAB
MW-1	09/06/89	285.22	18.25	266.97	ND<1.0	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<50	GTEL
MW-1	09/12/89	285.22	18.39	266.83	---	---	---	---	---	---	---	---	NA
MW-1	11/20/89	285.22	18.06	267.16	ND<500	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-1	02/22/90	285.22	18.04	267.18	ND<50	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-1	05/29/90	285.22	18.55	266.67	ND<50	---	---	0.3	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-1	09/27/90	285.22	19.13	266.09	ND<50	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.6	---	GTEL
MW-1	01/16/91	285.22	19.32	265.90	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-1	09/19/91	285.22	19.36	265.86	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-1	01/23/92	285.22	19.81	265.41	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-1D	01/23/92	285.22	19.81	265.41	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-2	09/06/89	286.16	13.72	272.44	23	---	---	1	4	1	4	ND<50	GTEL
MW-2	09/12/89	286.16	13.97	272.19	---	---	---	---	---	---	---	---	NA
MW-2	11/20/89	286.16	13.81	272.35	ND<500	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-2	02/22/90	286.16	13.68	272.48	ND<50	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-2	05/29/90	286.16	13.92	272.24	ND<50	---	---	2	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-2	09/27/90	286.16	14.75	271.41	ND<50	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.6	---	GTEL
MW-2	01/16/91	286.16	14.44	271.72	ND<50	---	---	9	ND<0.5	ND<0.5	2	---	SAL
MW-2	09/19/91	286.16	14.46	271.70	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-2D	09/19/91	286.16	14.46	271.70	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-2	01/23/92	286.16	14.73	271.43	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-3	09/06/89	284.46	18.73	265.73	ND<1.0	ND*	1000	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<50	GTEL
MW-3	09/12/89	284.46	17.78	266.68	---	---	---	---	---	---	---	---	NA
MW-3	11/20/89	284.46	17.65	266.81	ND<500	ND*	ND<1000	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-3	02/22/90	284.46	16.84	267.62	ND<50	ND*	ND<1000	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-3	05/29/90	284.46	17.13	267.33	ND<50	ND*	ND<1000	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	GTEL
MW-3	09/27/90	284.46	18.38	266.08	ND<50	ND*	---	ND<5	ND<5	ND<5	ND<5	---	GTEL
MW-3D	09/27/90	284.46	18.38	266.08	ND<50	---	ND<1000	---	---	---	---	---	GTEL
MW-3	01/16/91	284.46	18.28	266.18	ND<50	ND*	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-3D	01/16/91	284.46	18.28	266.18	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-3	09/19/91	284.46	17.62	266.84	ND<50	ND*	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-3	01/23/92	284.46	17.62	266.84	ND<50	ND*	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL

31-0299

Table 1
Summary of Results of Ground Water Sampling
Chevron Service Station No. 9-3356
19201 Center Street, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	TPH-G	HVOC	TOG	B	T	E	X	ORG-Pb	LAB
TB	11/20/89	NA	NA	NA	ND<500	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	GTEL
TB	02/22/90	NA	NA	NA	ND<50	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	GTEL
TB	05/29/90	NA	NA	NA	ND<50	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	GTEL
TB	09/27/90	NA	NA	NA	ND<50	---	---	---	---	---	---	---	GTEL
TB	01/16/91	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
TB	09/19/91	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
TB	01/23/92	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
RINSATE	09/27/90	NA	NA	NA	ND<50	---	---	---	---	---	---	---	GTEL
RINSATE	01/16/91	NA	NA	NA	---	---	---	---	---	---	---	---	NA
RINSATE	09/19/91	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
RINSATE	01/23/92	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL

EXPLANATION OF ABBREVIATIONS:

TPH-G :Total Petroleum Hydrocarbons as Gasoline (EPA method 8015 modified)
HVOC :Halogenated Volatile Organic Compounds (EPA method 8010)
TOG :Total Oil and Grease (EPA method 503D & 503E)
B :Benzene (EPA method 8020 or 8240)
T :Toluene (EPA method 8020 or 8240)
E :Ethylbenzene (EPA method 8020 or 8240)
X :Xylenes (EPA method 8020 or 8240)
ORG-Pb :Organic Lead

--- :Not Analyzed/Not Measured
NA :Not Applicable/Not Available
ND :Not Detected
ND* :See laboratory reports for various detection limits.
TB :Trip Blank
D :Duplicate
GTEL :GTEL Analytical Laboratory
SAL :Superior Analytical Laboratory

Note: Top of casing and ground water elevations are expressed as feet above mean sea level (NGVD-1929).

APPENDIX A

OFFICIAL LABORATORY RESULTS
AND
CHAIN OF CUSTODY FORMS

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

LABORATORY NO.: 84865
CLIENT: Alton Geoscience
CLIENT JOB NO.: 31-0299

DATE RECEIVED: 01/23/92
DATE REPORTED: 01/28/92

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
84865- 1	TB	01/23/92	01/25/92
84865- 2	RIN	01/23/92	01/27/92
84865- 3	MW-3	01/23/92	01/28/92
84865- 4	MW-1	01/23/92	01/24/92
84865- 5	MW-1D	01/23/92	01/25/92
84865- 6	MW-2	01/23/92	01/28/92

Laboratory Number:	84865 1	84865 2	84865 3	84865 4	84865 5
ANALYTE LIST	Amounts/Quantitation Limits (ug/L)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<50	ND<50	ND<50	ND<50	ND<50
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
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<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Laboratory Number:	84865 6
ANALYTE LIST	Amounts/Quantitation Limits (ug/L)
OIL AND GREASE:	NA
TPH/GASOLINE RANGE:	ND<50
TPH/DIESEL RANGE:	NA
BENZENE:	ND<0.5
TOLUENE:	ND<0.5
ETHYL BENZENE:	ND<0.5
XYLENES:	ND<0.5

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: 84865

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 5520F:
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: 10/04/91

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L
Standard Reference: 10/11/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	01/02/92	200 ng	107/113	5	70-130
Benzene	01/06/92	200 ng	98/101	3	70-130
Toluene	01/06/92	200 ng	99/101	2	70-130
Ethyl Benzene	01/06/92	200 ng	106/109	3	70-130
Total Xylene	01/06/92	200 ng	98/101	3	70-130

Richard Srna, Ph.D.
Laboratory Director

Superior Precision Analytical, Inc.
835 Arnold Drive, Suite 106 • Martinez, California 94553 • (510) 229-0166 / fax (510) 229-0916

CERTIFICATE OF ANALYSIS

LABORATORY NO: 84865
CLIENT: Alton Geoscience
PROJECT NO: 31-0299

DATE SAMPLED :01/23/92
DATE RECEIVED:01/23/92
DATE REPORTED:01/27/92

EPA SW-846 METHOD 8010
HALOGENATED VOLATILE ORGANICS

LAB#: 84865-3 (Analyzed:01/25/92)
SAMPLE: mw 3 (Water)

ANALYTE	MDL(ug/L)	RESULT(ug/L)
Chloromethane/Vinyl Chloride	1.0	ND
Bromomethane/Chloroethane	1.0	ND
Trichlorofluoromethane	0.5	ND
1,1-Dichloroethene/Freon 113	0.5	ND
Dichloromethane	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,1-Dichloroethane	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
Chloroform	0.5	ND
1,1,1-Trichloroethane	0.5	ND
Carbon Tetrachloride	0.5	ND
1,2-Dichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	ND
1,2-Dichloropropane	0.5	ND
Bromodichloromethane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	ND
Dibromochloromethane	0.5	ND
Chlorobenzene	0.5	ND
Bromoform	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
1,2-Dichlorobenzene	0.5	ND

Surrogate (BFB) Recovery: 82%

MDL: Method Detection Limit
*Second Column confirmation available upon request.

QA/QC Summary: For Water Matrix (01/27/92)
MS/MSD Average Recovery: 114%
MS/MSD %RPD: 1%

Tosin Lawson
Senior Analyst

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No 84865

Chain-of-Custody-Record

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

Chevron Facility Number: 93358
Facility Address: 19021 Center St., Castro Valley
Consultant Project Number: 31-0299
Consultant Name: Alton Geoscience
Address: 1000 Burnett Ave #140, Concord
Project Contact (Name): John DeGeorge
(Fax Phone) 682-1582 (Fax Number) 682-8921

Chevron Contact (Name): Nancy Vukelich
(Phone): 842-9625
Laboratory Name: Superior Analytic
Laboratory Release Number: 4715950
Samples Collected by (Name): JON VAIL
Collection Date: 1-23-92
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
TB	1	1	W	G	1000	HCl	Y	X								Analyze
RIN	2	1	W	G	12:45	HCl	Y	X								Analyze
MW-3	3	4	W	G	13:00	HCl	Y	X			X					Analyze
MW-1	4	2	W	G	13:30	HCl	Y	X								Analyze
MW-10	5	1	W	G	13:35	HCl	Y	X								Analyze
MW-2	6	2	W	G	14:00	HCl	Y	X								Analyze

Please initial: PT
Samples Stored in ice ✓
Appropriate containers ✓
Samples preserved ✓
VOA's without headspace ✓
Comments:

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	1-23-92	1-23-92 5:24PM		Alton	1/23/92 1724
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	Alton	1/23/92 1820			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					1-23-92 18:30

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