

ENVIRONMENTAL

02 JUL 13 20 11 04



Chevron

July 10, 1995

Chevron U.S.A. Products Company
6001 Bollinger Canyon Rd., Bldg. L
P.O. Box 5004
San Ramon, CA 94583-0804

Site Assessment & Remediation Group
Phone (510) 842-9500

Ms. Jennifer Eberle
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station #9-2506
2630 Broadway, Oakland, CA

Dear Ms. Eberle:

Enclosed is the Quarterly Groundwater Sampling report dated May 9, 1995, prepared by our consultant Gettler-Ryan, Inc. for the above referenced site. Ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. As previously agreed, monitoring and sampling of wells B-2 and B-4 has been suspended. Dissolved concentrations of these constituents observed during this sampling event are consistent with historical results. Depth to ground water was measured at approximately 2.5 to 9.7 feet below grade. The site appears to lie on a ground water divide with gradient flowing to the northwest and southeast.

Chevron will continue the monitoring and sampling program at this site and report findings on a quarterly basis for two additional quarters to establish a baseline trend of ground water gradient, flow direction, and dissolved hydrocarbon concentrations.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY


Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

cc: Ms. Y.M. Byeman



GETTLER-RYAN INC.

May 9, 1995

Mark Miller
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Chevron Service Station #9-2506
2630 Broadway
Oakland, CA
Job #5203.80

Dear Mr. Miller:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan (G-R) personnel. On March 29, 1995, field personnel were on-site to gauge and sample ten wells (B-1, B-3 and B-5 through B-12) at Chevron Service Station #9-2506 located at 2630 Broadway in Oakland, California.

Static groundwater levels were measured on March 29, 1995 by G-R personnel. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the site wells. Static water level data and groundwater elevations are presented in Table 1. A potentiometric map is included as Figure 1.

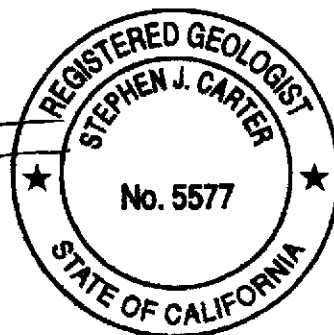
Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Quarterly Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by Superior Precision Analytical, Inc. Analytic results are presented in Table 1. The chain of custody document and laboratory analytic reports are enclosed. G-R is not responsible for laboratory omissions or errors.

Thank you for allowing Gettler-Ryan to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

Respectfully submitted,

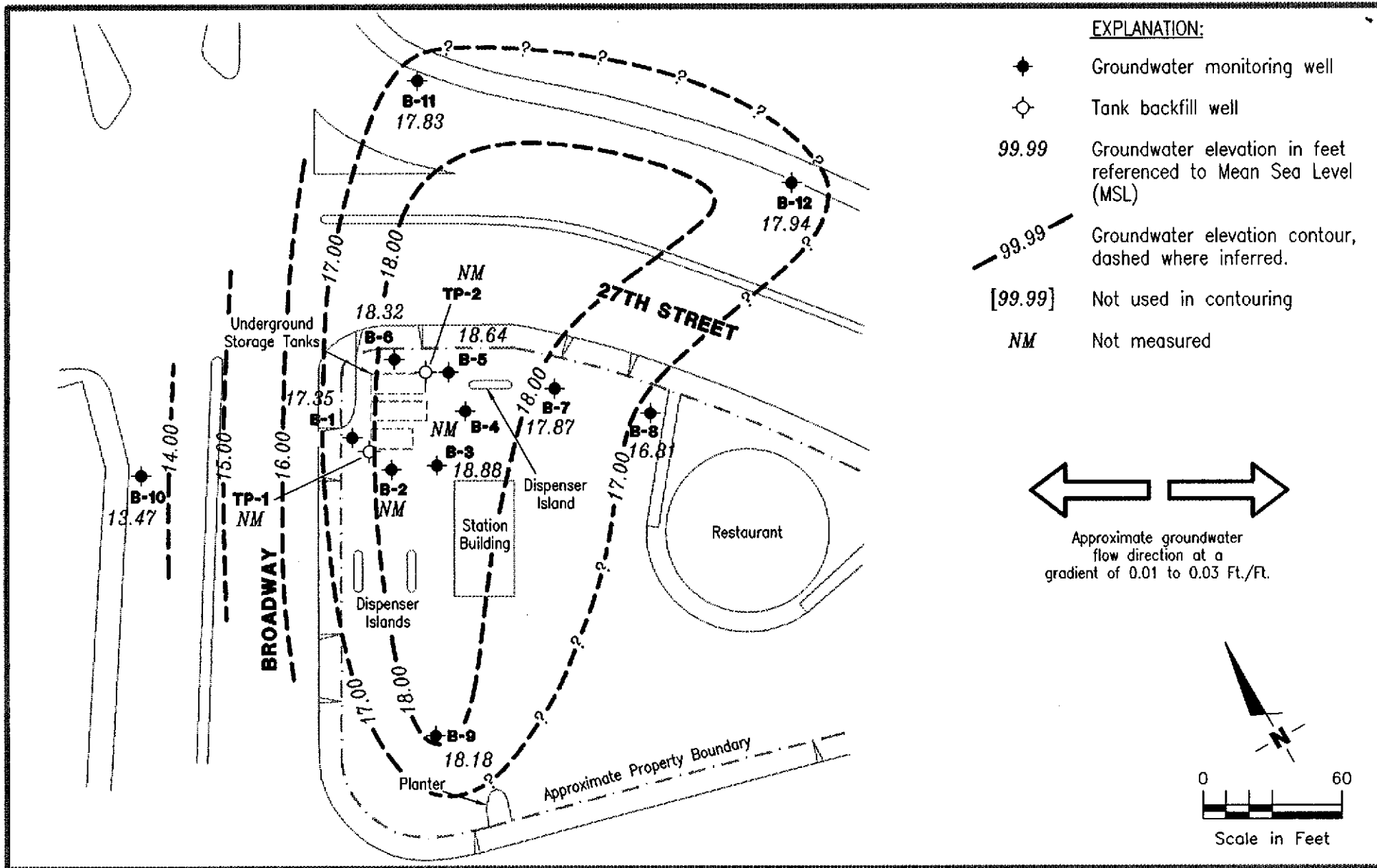

Argy Leyton
Environmental Project Manager


Stephen J. Carter
Senior Geologist, R.G. 5577



AML/SJC/aml
5203.QML

Figure 1: Potentiometric Map
Table 1: Water Level Data and Groundwater Analytic Results
Attachments: Standard Operating Procedure
Field Data Sheets
Chain of Custody Document and Laboratory Analytic Reports



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP

Chevron Service Station No. 9-2506
2630 Broadway
Oakland, California

FIGURE

1

JOB NUMBER
5203.85

REVIEWED BY
[Signature]

DATE
March 29, 1995

REVISED DATE
July 10, 1995



Table 1. Water Level Data and Groundwater Analytic Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) B T E X					
						←-----ppb----->					
B-1/ 23.00 ¹	3/18/82	7.81	15.19	0	---	---	---	---	---	---	
	3/25/82	8.67	14.33	0	---	---	---	---	---	---	
	5/21/82	9.30	13.70	0	---	---	---	---	---	---	
	5/26/82	10.18	12.82	0	---	---	---	---	---	---	
	6/24/82	9.92	13.08	0	---	---	---	---	---	---	
	9/9/93	9.90	13.10	0	8015/8020	8,800 ²	240	280	<2.5	<7.5	
	12/2/93	9.10	13.90	0	8015/8020	1,100	100	7.9	3.4	3.9	
	3/17/94	9.41	13.59	0	8015/8020	1,600	370	13	13	26	
	6/10/94	9.89	13.11	0	8015/8020	1,400	270	24	18	78	
	9/15/94	11.24	11.76	0	8015/8020	4,100	740	<5	270	300	
	25.67 ³	12/28/94	9.25	16.42	0	8015/8020	1,200	200	32	37	79
		3/29/95	8.32	17.35	0	8015/8020	13,000 ↑	540 ↑	54	77	120
	B-2/ 22.28 ¹	3/18/82	3.83	18.45	0	---	---	---	---	---	---
3/25/82		5.79	16.49	0	---	---	---	---	---	---	
5/21/82		4.85	17.43	0	---	---	---	---	---	---	
5/26/82		8.53	13.75	0	---	---	---	---	---	---	
6/24/82		8.40	13.88	0	---	---	---	---	---	---	
9/9/93		6.46	15.82	0	8015/8020	4,700	470	630	180	590	
12/2/93		5.41	16.87	0	8015/8020	2,200	59	27	110	350	
3/17/94		7.44	14.84	0	8015/8020	1,800	52	33	97	320	
6/10/94		8.15	14.13	0	8015/8020	1,200	37	48	20	93	
9/15/94		10.00	12.28	0	8015/8020	4,900	710	12	340	450	
25.13 ³		12/28/94	7.32	17.81	0	8015/8020	2,600	63	49	56	370
		3/29/95 ^{ok}	---	---	---	---	---	---	---	---	---
B-3/ 21.78 ¹		3/18/82	5.65	16.13	0	---	---	---	---	---	---
	3/25/82	5.75	16.03	0	---	---	---	---	---	---	
	5/21/82	5.58	16.20	0	---	---	---	---	---	---	
	5/26/82	7.99	13.79	0	---	---	---	---	---	---	
	6/24/82	7.68	14.10	0	---	---	---	---	---	---	
	9/9/93	5.99	15.79	0	8015/8020	7,800	500	760	180	720	
	12/2/93	5.70	16.08	0	8015/8020	9,800	790	870	380	1,500	
	3/17/94	6.50	15.28	0	8015/8020	2,400	88	55	74	270	
	6/10/94	7.23	14.55	0	8015/8020	2,300	110	95	84	240	



Table 1. Water Level Data and Groundwater Analytic Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) B T E X				
						←-----ppb----->				
B-3 (cont)	9/15/94	9.16	12.62	0	8015/8020	5,000	670	9.3	340	410
24.35 ³	12/28/94	6.44	17.91	0	8015/8020	4,100	650	34	320	440
	3/29/95	5.47	18.88	0	8015/8020	3,300	170	2.2	51	8.9
B-4/ 21.35 ¹	3/18/82	4.65	16.70	0	---	---	---	---	---	---
	3/25/82	5.08	16.27	0	---	---	---	---	---	---
	5/21/82	---	---	2.5	---	---	---	---	---	---
	5/26/82	9.21	12.14	---	---	---	---	---	---	---
	6/24/82	8.22	13.13	0.5	---	---	---	---	---	---
	9/9/93	6.09	15.26	0	8015/8020	88,000	3,200	16,000	2,000	9,500
	12/2/93	5.54	15.81	0	8015/8020	110,000	3,600	25,000	2,800	15,000
	3/17/94	6.00	15.35	0	8015/8020	60,000	1,400	16,000	1,800	8,900
	6/10/94	6.87	14.48	0	8015/8020	25,000	770	880	190	1,100
	9/15/94	8.74	12.61	0	8015/8020	3,300	800	8.0	300	350
24.11 ³	12/28/94	5.74	18.37	0	8015/8020	17,000	400	4,000	630	2,900
	3/29/95 ^{OK}	---	---	---	---	---	---	---	---	---
B-5/ 21.53 ¹	3/18/82	5.13	16.40	0	---	---	---	---	---	---
	3/25/82	5.27	16.26	0	---	---	---	---	---	---
	5/21/82	4.40	17.13	0	---	---	---	---	---	---
	5/26/82	7.55	13.98	0	---	---	---	---	---	---
	6/24/82	7.27	14.26	0	---	---	---	---	---	---
	9/9/93	6.45	15.08	0	8015/8020	110,000	1,800	1,800	6,300	25,000
	12/2/93	5.13	16.40	0	8015/8020	81,000	4,400	3,800	6,700	28,000
	3/17/94	6.55	14.98	0	8015/8020	38,000	2,100	3,100	1,800	9,100
	6/10/94	7.34	14.19	0	8015/8020	110,000	5,100	7,000	5,400	27,000
	9/15/94	6.34	15.19	0	8015/8020	2,700	770	15	240	320
24.23 ³	12/28/94	6.55	17.68	0	8015/8020	94,000	4,600	10,000	4,400	19,000
	3/29/95	5.59	18.64	0	8015/8020	59,000 ↓	1,500 ↓	3,100	2,100	8,100
B-6/ 22.03 ¹	3/18/82	7.56	14.47	0	---	---	---	---	---	---
	3/25/82	6.08	15.95	0	---	---	---	---	---	---
	5/21/82	4.85	17.18	0	---	---	---	---	---	---



Table 1. Water Level Data and Groundwater Analytic Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) B T E X					
						-----ppb----->					
B-6 (cont)	5/26/82	8.31	13.72	0	---	---	---	---	---	---	
	6/24/82	8.03	14.00	0	---	---	---	---	---	---	
	9/9/93	8.12	13.91	0	8015/8020	6,800 ²	<0.5	<0.5	<0.5	<1.5	
	12/2/93	7.06	14.97	0	8015/8020	320	29	<0.5	<0.5	<0.5	
	3/17/94	7.57	14.46	0	8015/8020	570	130	6.2	4.7	14	
	6/10/94	8.21	13.82	0	8015/8020	1,500	100	81	51	240	
	9/15/94	9.94	12.09	0	8015/8020	6,400	900	24	490	620	
24.72 ³	12/28/94	7.45	17.27	0	8015/8020	350	110	4.4	3.7	14	
	3/29/95	6.40	18.32	0	8015/8020	3,300	46	<0.5	1.3	1.2	
B-7/ 19.54 ¹	3/18/82	4.08	15.46	0	---	---	---	---	---	---	
	3/25/82	4.00	15.54	0	---	---	---	---	---	---	
	5/21/82	3.00	16.54	0	---	---	---	---	---	---	
	5/26/82	4.96	14.58	0	---	---	---	---	---	---	
	6/24/82	4.90	14.64	0	---	---	---	---	---	---	
	9/9/93	6.54	13.00	0	8015/8020	230	1.3	2.3	0.6	2.1	
	12/2/93	6.20	13.34	0	8015/8020	190	4.7	<0.5	1.1	1.9	
	3/17/94	5.19	14.35	0	8015/8020	320	15	3.3	1.0	3.0	
	6/10/94	5.97	13.57	0	8015/8020	210	6.1	5.7	2.3	5.8	
	9/15/94	7.78	11.76	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
	22.22 ³	12/28/94	5.04	17.18	0	8015/8020	520	17	4.8	2.5	2.1
		3/29/95	4.35	17.87	0	8015/8020	420	6.0	2.3	1.8	0.9
	B-8/ 18.49 ¹	3/18/82	4.27	14.22	0	---	---	---	---	---	---
		3/25/82	4.06	14.43	0	---	---	---	---	---	---
5/21/82		4.86	13.63	0	---	---	---	---	---	---	
5/26/82		4.96	13.53	0	---	---	---	---	---	---	
6/24/82		4.87	13.62	0	---	---	---	---	---	---	
9/9/93		5.20	13.29	0	8015/8020	<50	3.4	<0.5	<0.5	<1.5	
12/2/93		5.31	13.18	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
3/17/94		4.87	13.62	0	8015/8020	<50	1.7	0.5	<0.5	0.6	
6/10/94		5.63	12.86	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
9/15/94		7.10	11.39	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
21.01 ³		12/28/94	4.63	16.38	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5



Table 1. Water Level Data and Groundwater Analytic Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) B T E X				
						←-----ppb----->				
B-8 (cont)	3/29/95	4.20	16.81	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
B-9 ⁴	8/4/94	11.53	14.08	—	8015/8020	650	4.4	2.4	6.3	14
25.61 ³	11/2/94	9.42	16.19	—	8015/8020	—	—	—	—	—
	12/28/94	8.35	17.26	0	8015/8020	2,400	290	8.4	90	36
	3/29/95	7.43	18.18	0	8015/8020	5,900	540	24	200	84
B-10 ⁴	8/4/94	10.95	12.20	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
23.15 ³	11/2/94	11.19	11.96	—	8015/8020	—	—	—	—	—
	12/28/94	10.30	12.85	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/29/95	9.68	13.47	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
B-11 ⁴	8/4/94	10.39	14.84	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
25.23 ³	11/2/94	11.50	13.73	—	8015/8020	—	—	—	—	—
	12/28/94	9.09	16.14	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/29/95	7.40	17.83	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
B-12 ⁴	8/4/94	6.41	13.99	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
20.40 ³	11/2/94	8.75	11.65	—	8015/8020	—	—	—	—	—
	12/28/94	2.76	17.64	0	8015/8020	74	1.0	2.6	1.3	4.4
	3/29/95	2.46	17.94	0	8015/8020	210	<0.5	<0.5	0.7	1.6
TP-1/ —	9/9/93	7.33	—	0	8015/8020	8,500	770	890	120	590
TP-2/ —	9/9/93	6.18	—	0	8015/8020	13,000	2,400	3,200	380	1,900
Trip-Lab Blank TB-LB	9/9/93	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	12/2/93	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/17/94	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/10/94	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/15/94	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/28/94	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/29/95	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5



Table 1. Water Level Data and Groundwater Analytic Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) <-----ppb----->	B	T	E	X
Bailer Blank										
BB	9/9/93	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	12/2/93	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/17/94	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	0.6

EXPLANATION:

DTW = Depth to water
 TOC = Top of casing elevation
 GWE = Groundwater elevation
 msl = Measurements referenced relative to mean sea level
 TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 ppb = Parts per billion
 — = Not analyzed/Not applicable

ANALYTIC METHODS:

8015 = EPA Method 8015/5030 for TPPH(G)
 8020 = EPA Method 8020 for BTEX

NOTES:

Water level data and laboratory analytic results prior to 1995, compiled from the quarterly monitoring reports prepared for Chevron by Sierra Environmental Services.

- * Product thickness was measured on and after September 9, 1993, with an MMC flexi-dip interface probe.
- ¹ Top of casing elevations were compiled from IT Enviroscience Program Report, August 2, 1982. TOC for MW-1 was assumed to be 23 feet MSL.
- ² Laboratory indicates a non-typical gasoline pattern.
- ³ Wells were resurveyed. Top of casing elevations were compiled from RESNA Subsurface Investigation Report, October 19, 1994.
- ⁴ Water level and analytic data prior to 12/28/94 from RESNA Subsurface Investigation Report, October 19, 1994.
- ⁵ Well abandoned, exact date unknown.
SAMPLING DISCONTINUED.



STANDARD OPERATING PROCEDURE QUARTERLY GROUNDWATER SAMPLING

Gettler-Ryan 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 a MMC flexi-dip 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 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 analytic 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, preservative (if any), and the sample collector's initials. The water samples are placed in cooler maintained at 4 C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivery 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 USA Products Company, the purge and decontamination water generated during sampling activities is taken to Chevron's Richmond Refinery for disposal.

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY Chevron #504 #2500 JOB # 5203
 LOCATION 2030 Broadway DATE 3-29-95
 CITY Oakland CA TIME _____

Well ID. B-1 Well Condition okay
 Well Diameter 2 in. Hydrocarbon Thickness _____ ft.
 Total Depth 29.0 ft.
 Depth to Liquid- 8.32 ft.
 (# of casing volumes) 3 x 20.68 x (VF) 0.17 = (Estimated Purge Volume) 35 10.5 gal.

Volume Factor (VF)	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

Purging Equipment Suction
 Sampling Equipment Disposable Baiter

Starting Time 16:16 Purging Flow Rate _____ gpm.
 (Estimated Purge Volume) _____ gal. / (Purging Flow Rate) _____ gpm. = (Anticipated Purging Time) _____ min.

Time	pH	Conductivity	Temperature	Volume
<u>16:18</u>	<u>8.00</u>	<u>688</u>	<u>78.7</u>	<u>4</u>
<u>16:20</u>	<u>7.00</u>	<u>731</u>	<u>72.3</u>	<u>8</u>
<u>16:22</u>	<u>6.95</u>	<u>745</u>	<u>69.2</u>	<u>12</u>
<u>16:25</u>	<u>6.98</u>	<u>740</u>	<u>69.3</u>	<u>12.5</u>

Did well dewater? NC If yes, time _____ Volume _____
 Sampling Time 16:25 Weather Conditions Okay Sunny
 Analysis Gas BTEX Bottles Used 3x40ml vial
 Chain of Custody Number _____

COMMENTS _____

FOREMAN [Signature] ASSISTANT _____

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY CHEVRON 9-2504 JOB # 5203.80
 LOCATION 2630 BROADWAY DATE 30 MAR. 95
 CITY OAKLAND TIME 29

Well ID. B-3 Well Condition —

Well Diameter 2 in. Hydrocarbon Thickness — ft.

Total Depth 14.7 ft.

Depth to Liquid- 5.47 ft.

Volume Factor (VF)	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 9.23 x(VF) .17 = (Estimated Purge Volume) 1.56 4.6 gal.

Purging Equipment STACK PUMP

Sampling Equipment DISPOSABLE BAILER

Starting Time 1540 Purging Flow Rate _____ gpm.

(Estimated Purge Volume) _____ gal. / (Purging Flow Rate) _____ gpm. = (Anticipated Purging Time) _____ min.

Time	pH	Conductivity	Temperature	Volume
<u>1541</u>	<u>6.7</u>	<u>1110</u>	<u>66.9</u>	<u>1.5</u>
<u>1542</u>	<u>6.4</u>	<u>1130</u>	<u>67.3</u>	<u>3</u>
<u>1543</u>	<u>6.5</u>	<u>1170</u>	<u>67.1</u>	<u>4.5</u>

Did well dewater? If yes, time _____ Volume _____

Sampling Time 1545 Weather Conditions _____

Analysis _____ Bottles Used _____

Chain of Custody Number _____

COMMENTS _____

FOREMAN [Signature] ASSISTANT _____

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY CHEVRON 9-2506 JOB # 5203.80
 LOCATION 2630 BROADWAY DATE 29 MAR. 95
 CITY OAKLAND TIME _____

Well ID. B-5 Well Condition _____
 Well Diameter 2 in. Hydrocarbon Thickness _____ ft.
 Total Depth 18.9 ft.
 Depth to Liquid- 5.59 ft.
 (# of casing volumes) 3 x 13.31 x (VF) .17 = (Estimated Purge Volume) 2.26 gal.
 (VF) 0.66 10" = 4.10

Volume Factor (VF)	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

Purging Equipment STACK PUMP
 Sampling Equipment DISPOSABLE BAILOET

Starting Time 1550 Purging Flow Rate 2 gpm.
 (Estimated Purge Volume) _____ gal. / (Purging Flow Rate) _____ gpm. = (Anticipated Purging Time) _____ min.

Time	pH	Conductivity	Temperature	Volume
<u>1551</u>	<u>6.8</u>	<u>700</u>	<u>70.6</u>	<u>2</u>
<u>1553</u>	<u>6.7</u>	<u>710</u>	<u>70.9</u>	<u>4</u>
<u>1554</u>	<u>6.8</u>	<u>710</u>	<u>70.3</u>	<u>4</u>

Did well dewater? _____ If yes, time _____ Volume _____
 Sampling Time 1600 Weather Conditions _____
 Analysis GAS - BTEX Bottles Used _____
 Chain of Custody Number _____

COMMENTS _____

FOREMAN [Signature] ASSISTANT _____

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY CHEVRON 9-2506 JOB # 5203.80
LOCATION 7630 BROADWAY DATE 29 MARCH 95
CITY OAKLAND TIME _____

Well ID. B-6 Well Condition —
Well Diameter 2 in. Hydrocarbon Thickness — ft.
Total Depth 19.4 ft.
Depth to Liquid- 6.4 ft.

Volume Factor (VF)	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 13.0 x (VF) 17 = (Estimated Purge Volume) 2.21 6.63 gal.

Purging Equipment STACK PUMP
Sampling Equipment DISPOSABLE BAILER

Starting Time 1520 Purging Flow Rate _____ gpm.
(Estimated Purge Volume) _____ gal. / (Purging Flow Rate) _____ gpm. = (Anticipated Purging Time) _____ min.

Time	pH	Conductivity	Temperature	Volume
<u>1521</u>	<u>6.9</u>	<u>810</u>	<u>70.9</u>	<u>2</u>
<u>1522</u>	<u>6.7</u>	<u>810</u>	<u>71.7</u>	<u>4</u>
<u>1523</u>	<u>6.9</u>	<u>790</u>	<u>70.7</u>	<u>6</u>

Did well dewater? 1525 If yes, time _____ Volume _____
Sampling Time _____ Weather Conditions _____
Analysis _____ Bottles Used _____
Chain of Custody Number _____

COMMENTS _____
FOREMAN RON NEAL ASSISTANT _____

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY CHEVRON 9-2506 JOB # 5203.80
LOCATION 2630 BROADWAY DATE 29 MAR. 95
CITY OAKLAND TIME _____

Well ID. B-7 Well Condition —

Well Diameter 2 in. Hydrocarbon Thickness — ft.

Total Depth 69.35 ft.

Depth to Liquid- 19.3 ft.

Volume Factor (VF)	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 14.95 x (VF) .17 = (Estimated Purge Volume) 2.547.6 gal.

Purging Equipment STACK PUMP

Sampling Equipment DISPOSABLE BAILER

Starting Time 1530 Purging Flow Rate _____ gpm.
(Estimated Purge Volume) _____ gal. / (Purging Flow Rate) _____ gpm. = (Anticipated Purging Time) _____ min.

Time	pH	Conductivity	Temperature	Volume
<u>1531</u>	<u>7.1</u>	<u>660</u>	<u>71.0</u>	<u>2.5</u>
<u>1532</u>	<u>7.2</u>	<u>670</u>	<u>70.8</u>	<u>5</u>
<u>1534</u>	<u>7.1</u>	<u>660</u>	<u>70.8</u>	<u>7.5</u>

Did well dewater? _____ If yes, time _____ Volume _____

Sampling Time 1537 Weather Conditions _____

Analysis _____ Bottles Used _____

Chain of Custody Number _____

COMMENTS _____

FOREMAN RON NEAL ASSISTANT _____

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY CHEVRON 9-2506 JOB # 5203.80
LOCATION 2630 BROADWAY DATE 29 MARCH 95
CITY OAKLAND TIME _____

Well ID. B-8 Well Condition ✓

Well Diameter 2 in. Hydrocarbon Thickness _____ ft.

Total Depth 18.0 ft.

Depth to Liquid- 4.2 ft.

Volume Factor (VF)	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.80	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 13.8 x (VF) .17 = (Estimated Purge Volume) 2.37 gal.

Purging Equipment STACK PUMP.

Sampling Equipment DISPOSABLE BAITER

Starting Time 15:09 Purging Flow Rate _____ gpm.

(Estimated Purge Volume) _____ gal. / (Purging Flow Rate) _____ gpm. = (Anticipated Purging Time) _____ min.

Time	pH	Conductivity	Temperature	Volume
<u>1510</u>	<u>6.8</u>	<u>740</u>		<u>2</u>
<u>1511</u>	<u>6.8</u>	<u>750</u>		<u>4</u>
<u>1512</u>	<u>6.5</u>	<u>740</u>		<u>6</u>

Did well dewater? 1515 If yes, time _____ Volume _____

Sampling Time _____ Weather Conditions _____

Analysis _____ Bottles Used _____

Chain of Custody Number _____

COMMENTS _____

FOREMAN [Signature] ASSISTANT _____

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY Chevron # 9-0504 2506 JOB # 5203
LOCATION 2630 Broadway DATE 3-29-95
CITY Oakland CA TIME _____

Well ID. B-9 Well Condition okay
Well Diameter 2 in. Hydrocarbon Thickness 0 ft.

Total Depth 18.8 ft.
Depth to Liquid- 7.43 ft.

Volume Factor (VF)	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 11.37 x (VF) 0.37 = (Estimated Purge Volume) 1.9 gal.

Purging Equipment Suction
Sampling Equipment Disposable Barks

Starting Time 16:27 Purging Flow Rate _____ gpm.
(Estimated Purge Volume) _____ gal. / (Purging Flow Rate) _____ gpm. = (Anticipated Purging Time) _____ min.

Time	pH	Conductivity	Temperature	Volume
<u>16:29</u>	<u>6.76</u>	<u>1165</u>	<u>71.4</u>	<u>2</u>
<u>16:31</u>	<u>6.91</u>	<u>1213</u>	<u>70.2</u>	<u>4</u>
<u>16:33</u>	<u>6.94</u>	<u>1215</u>	<u>70.93</u>	<u>6</u>
<u>16:38</u>	<u>6.95</u>	<u>1215</u>	<u>69.5</u>	<u>6.5</u>

Did well dewater? No If yes, time _____ Volume _____
Sampling Time 16:38 Weather Conditions Sunny
Analysis Gas BTEX Bottles Used 3x4cm Vials
Chain of Custody Number _____

COMMENTS _____

FOREMAN [Signature] ASSISTANT _____

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY CHEVRON 9-2506 2506 JOB # 5003
 LOCATION 2630 Broadway DATE 3-29-95
 CITY _____ TIME _____

Well ID. AV-10 Well Condition dry
 Well Diameter 2" in. Hydrocarbon Thickness _____ ft.
 Total Depth 2920 ft.
 Depth to Liquid- 9.68 ft.
 (# of casing volumes) 3 x 19.52 x (VF) 0.17 = (Estimated Purge Volume) 33 9.9 gal.

Volume Factor (VF)	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

Purging Equipment Suction
 Sampling Equipment Disposable Bait

Starting Time 15:01 Purging Flow Rate _____ gpm.
 (Estimated Purge Volume) _____ gal. / (Purging Flow Rate) _____ gpm. = (Anticipated Purging Time) _____ min.

Time	pH	Conductivity	Temperature	Volume
<u>15:03</u>	<u>6.73</u>	<u>583</u>	<u>64.8</u>	<u>3.5</u>
<u>15:05</u>	<u>6.75</u>	<u>672</u>	<u>63.2</u>	<u>7.0</u>
<u>15:07</u>	<u>6.76</u>	<u>563</u>	<u>63.7</u>	<u>10.5</u>
<u>15:10</u>	<u>6.90</u>	<u>562</u>	<u>63.4</u>	<u>11.0</u>

Did well dewater? No If yes, time _____ Volume _____
 Sampling Time 15:10 Weather Conditions _____
 Analysis Gas B/W Bottles Used _____
 Chain of Custody Number _____

COMMENTS _____
 FOREMAN [Signature] ASSISTANT _____

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY Chevron # 2506 JOB # 5203
 LOCATION 2630 Broadway DATE 3-29-95
 CITY Oakland CA TIME _____

Well ID. B-11 Well Condition okay
 Well Diameter 2 in. Hydrocarbon Thickness _____ ft.

Total Depth 7.40 ft. 18.7 ft.
 Depth to Liquid- _____ ft.
 (# of casing volumes) 3 x 11.30 x (VF) 0.17 = (Estimated Purge Volume) 19.57 gal.

Volume Factor (VF)	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

Purging Equipment Suction
 Sampling Equipment Disposable Bailer

Starting Time 15:20 Purging Flow Rate _____ gpm.
 (Estimated Purge Volume) _____ gal. / (Purging Flow Rate) _____ gpm. = (Anticipated Purging Time) _____ min.

Time	pH	Conductivity	Temperature	Volume
<u>15:28</u>	<u>6.74</u>	<u>331</u>	<u>64.9</u>	<u>2</u>
<u>15:30</u>	<u>6.62</u>	<u>316</u>	<u>65.3</u>	<u>4</u>
<u>15:32</u>	<u>6.75</u>	<u>317</u>	<u>65.3</u>	<u>6</u>
<u>15:35</u>	<u>6.70</u>	<u>317</u>	<u>66.0</u>	<u>6.5</u>

Did well dewater? No If yes, time _____ Volume _____
 Sampling Time 15:38 Weather Conditions Sunny
 Analysis Gas type Bottles Used 3 @ 40ml VOA
 Chain of Custody Number _____

COMMENTS _____
 FOREMAN [Signature] ASSISTANT _____

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

2528

COMPANY Chevron # 9-0504 JOB # 5203
LOCATION 2030 Broadway DATE 3-29-95
CITY Oakland CA TIME _____

Well ID. B-12 Well Condition dry

Well Diameter 2 in. Hydrocarbon Thickness _____ ft.

Total Depth 18.2 ft.

Depth to Liquid- 2.46 ft.

Volume Factor (VF)	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 15.74 x (VF) .17 = (Estimated Purge Volume) 2.6 gal.

Purging Equipment Suction

Sampling Equipment Disposable Bail

Starting Time 15:42 Purging Flow Rate _____ gpm.

(Estimated Purge Volume) _____ gal. / (Purging Flow Rate) _____ gpm. = (Anticipated Purging Time) _____ min.

Time	pH	Conductivity	Temperature	Volume
<u>15:44</u>	<u>7.20</u>	<u>512</u>	<u>66.7</u>	<u>3</u>
<u>15:46</u>	<u>7.09</u>	<u>607</u>	<u>66.5</u>	<u>6</u>
<u>15:48</u>	<u>7.10</u>	<u>605</u>	<u>66.3</u>	<u>9</u>
<u>15:53</u>	<u>7.07</u>	<u>606</u>	<u>67.2</u>	<u>10</u>

Did well dewater? No If yes, time _____ Volume _____

Sampling Time 15:53 Weather Conditions Sunny

Analysis Gas BTEX Bottles Used 3x90ml VOD

Chain of Custody Number _____

COMMENTS _____

FOREMAN [Signature] ASSISTANT _____



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

RECEIVED

APR 24 1995

GETTLER RYAN INC.
6747 SIERRA CT, SUITE G
DUBLIN, CA 94568

Date: April 21, 1995

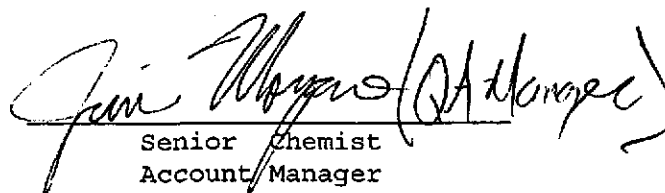
GETTLER-RYAN INC.
GENERAL CONTRACTORS

Attn: ARGY LEYTON

Laboratory Number : 81031

Project Number/Name : 5203.80

This report has been reviewed and
approved for release.


Senior Chemist
Account Manager

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit 1
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2997 / fax (206) 763-8429



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5203.80
Reported on April 18, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 81031

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
B-10	03/29/95	03/31/95	04/07/95	04/07/95	BD071.19	01
B-8	03/29/95	03/31/95	04/11/95	04/11/95	BD111.03	02
B-6	03/29/95	03/31/95	04/07/95	04/07/95	BD071.19	03
B-11	03/29/95	03/31/95	04/07/95	04/07/95	BD071.19	04
B-7	03/29/95	03/31/95	04/07/95	04/07/95	BD071.19	05
B-3	03/29/95	03/31/95	04/07/95	04/07/95	BD071.19	06
B-12	03/29/95	03/31/95	04/07/95	04/07/95	BD071.19	07
B-5	03/29/95	03/31/95	04/07/95	04/07/95	BD071.19	08
B-1	03/29/95	03/31/95	04/10/95	04/10/95	BD101.19	09
B-9	03/29/95	03/31/95	04/10/95	04/10/95	BD101.19	10
TBLB	03/29/95	03/31/95	04/08/95	04/08/95	BD071.19	11

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BD071.19-01	Method Blank	MB	Water	04/07/95	04/07/95
BD071.19-02	B-10	MS 81031-01	Water	04/07/95	04/07/95
BD071.19-03	B-10	MSD 81031-01	Water	04/07/95	04/07/95

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553

1555 Burke St., Unit I
San Francisco, California 94124

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5203.80
Reported on April 18, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
81031-01	B-10	Water	1.0	-
81031-02	B-8	Water	1.0	-
81031-03	B-6	Water	1.0	-
81031-04	B-11	Water	1.0	-

RESULTS OF ANALYSIS

Compound	81031-01		81031-02		81031-03		81031-04	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L		ug/L	
Gasoline_Range	ND	50	ND	50	3300	50	ND	50
Benzene	ND	0.5	ND	0.5	46	0.5	ND	0.5
Toluene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Ethyl Benzene	ND	0.5	ND	0.5	1.3	0.5	ND	0.5
Total Xylenes	ND	0.5	ND	0.5	1.2	0.5	ND	0.5

>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS)	94	112	106	95
-----------------------	----	-----	-----	----



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5203.80
Reported on April 18, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
81031-05	B-7	Water	1.0	-
81031-06	B-3	Water	1.0	-
81031-07	B-12	Water	1.0	-
81031-08	B-5	Water	20.0	-

RESULTS OF ANALYSIS

Compound	81031-05		81031-06		81031-07		81031-08	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L		ug/L	
Gasoline_Range	420	50	3300	50	210	50	59000	1000
Benzene	6.0	0.5	170	0.5	ND	0.5	1500	10
Toluene	2.3	0.5	2.2	0.5	ND	0.5	3100	10
Ethyl Benzene	1.8	0.5	51	0.5	0.7	0.5	2100	10
Total Xylenes	0.9	0.5	8.9	0.5	1.6	0.5	8100	10
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	120		110		97		124	

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2002 / fax (206) 763-9420



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

SETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5203.80
Reported on April 18, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
81031-09	B-1	Water	10.0	-
81031-10	B-9	Water	10.0	-
81031-11	TBLB	Water	1.0	-

RESULTS OF ANALYSIS

Compound	81031-09		81031-10		81031-11	
	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L	
Gasoline_Range	13000	500	5900	500	ND	50
Benzene	540	5.0	540	5.0	ND	0.5
Toluene	54	5.0	24	5.0	ND	0.5
Ethyl Benzene	77	5.0	200	5.0	ND	0.5
Total Xylenes	120	5.0	84	5.0	ND	0.5
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)	96		153i		96	



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 81031
Method Blank(s)

BD071.19-01
Conc. RL
ug/L

	Conc.	RL
Gasoline_Range	ND	50
Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Total Xylenes	ND	0.5
>> Surrogate Recoveries (%) <<		
Trifluorotoluene (SS)	92	

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553

1555 Burke St., Unit 1
San Francisco, California 94124

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 81031

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L) BD071.19 02 / 03 - Sample Spiked: 81031 - 01						
Gasoline_Range	ND	264	225/225	85/85	65-135	0
Benzene	ND	20	17/17	85/85	65-135	0
Toluene	ND	20	17/17	85/85	65-135	0
Ethyl Benzene	ND	20	17/17	85/85	65-135	0
Total Xylenes	ND	60	51/51	85/85	65-135	0
> Surrogate Recoveries (%) << Trifluorotoluene (SS)				96/95	50-150	

- The surrogate recovery was high due to the presence of interfering compounds in the sample.

Definitions:

- D = Not Detected
- L = Reporting Limit
- A = Not Analysed
- PD = Relative Percent Difference
- g/L = parts per billion (ppb)
- g/L = parts per million (ppm)
- ug/kg = parts per billion (ppb)
- mg/kg = parts per million (ppm)

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit 1
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 742-2922 / fax (206) 742-9129