

Chevron U.S.A. Inc.

2410 Camino Ramon, San Ramon, California • Phone (415) 842-9500 Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

Marketing Operations

D. Moller Manager, Operations S. L. Patterson Area Manager, Operations C. G. Trimbach Manager, Engineering

October 2, 1989

Rafat Shahid Alameda County Environmental Health Department 80 Swan Way #200 Oakland, California 94621

> Re: Former Chevron Facility #94612 3616 San Leandro Street Oakland, California

Dear Mr. Shahid:

Enclosed are the results of the quarterly ground water sampling conducted by Weiss Associates at the above-referenced site. As indicated in the report, the water sample was analyzed for total purgeable petroleum hydrocarbons (TPPH) and aromatic hydrocarbons. The water sample from well VH-1 contained TPPH at 5,600 parts per billion (ppb), benzene at 1,900 ppb, ethylbenzene at 350 ppb, toluene at 90 ppb, and xylenes at 160 ppb. Chevron will continue to monitor the ground water beneath the site on a quarterly basis. If you have any questions or comments, please contact John Randall at (415) 842-9625.

I declare under penalty of perjury that the information contained in the attached report is true and correct, and that any recommended actions are appropriate under the circumstances, to the best of my knowledge.

Sincerely, D. Moller

By

John Randall Engineer

JMR/wa Enclosure

cc: Don Dalke, Regonal Water Quality Control Board, 1111 Jackson Street, Oakland, California 94607

Mark Lindquist, 1600 Broadway, Suite 280, Oakland, California 94612

Terry McIlrath, 407 Castello Road, Lafayette, California 94549



2938 McClure Street, Oakland, CA 94609

415-465-1100

October 2, 1989

John Randall Chevron USA P.O. Box 5004 San Ramon, CA 94583-0804

GCT 5 '89 H.C.H.

Re: Former Chevron Service Station #94612 3616 San Leandro Street Oakland, California WA Job #4-438-01

Dear Mr. Randall:

Weiss Associates (WA) collected a ground water sample from one monitoring well on September 15, 1989 as part of the quarterly ground water monitoring program at former Chevron Service Station #94612 in Oakland, California (Figures 1 and 2). The ground water sample from monitoring well VH-1 contained total purgeable petroleum hydrocarbons (TPPH) at 5,600 parts per billion, benzene at 1,900 ppb, ethylbenzene at 350 ppb, toluene at 90 ppb and xylenes at 160 ppb.

GROUND WATER SAMPLING

Robert Kitay, WA geologist, collected a ground water sample from monitoring well VH-1 on September 15, 1989. Prior to sampling, the well was purged of over four well-casing volumes of ground water, approximately 35 gallons, using a steam-cleaned PVC bailer. The ground water sample was decanted from a disposable polyethylene bailer into a 40 ml glass volatile organic analysis vial (VOA) with a Teflon septum, preserved with sodium bisulfate, and refrigerated for transport to Superior Analytical Laboratory, Inc. of San Francisco, California. To reduce the possibility of sample contamination during transport or storage, the sample was sealed within a plastic guard bottle containing activated carbon pellets. The water sample collection record and chain of custody form are included as Attachments A and B, respectively.

A laboratory supplied travel blank of certified organic-free distilled water accompanied the sample to provide assurance that contamination was not introduced during sample bottle transport or sample storage.

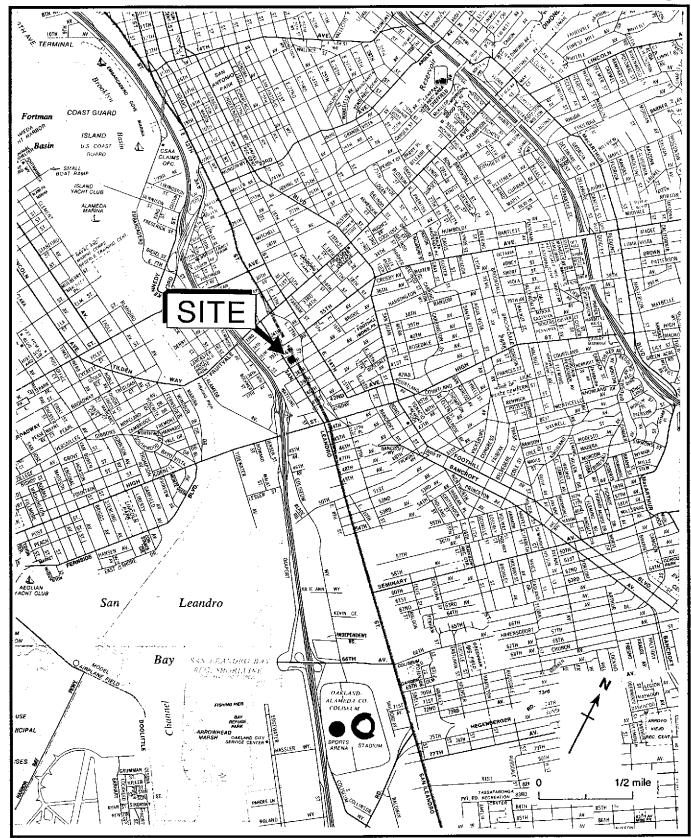


Figure 1. Site Location Map - Chevron Service Station #94612, Oakland, California

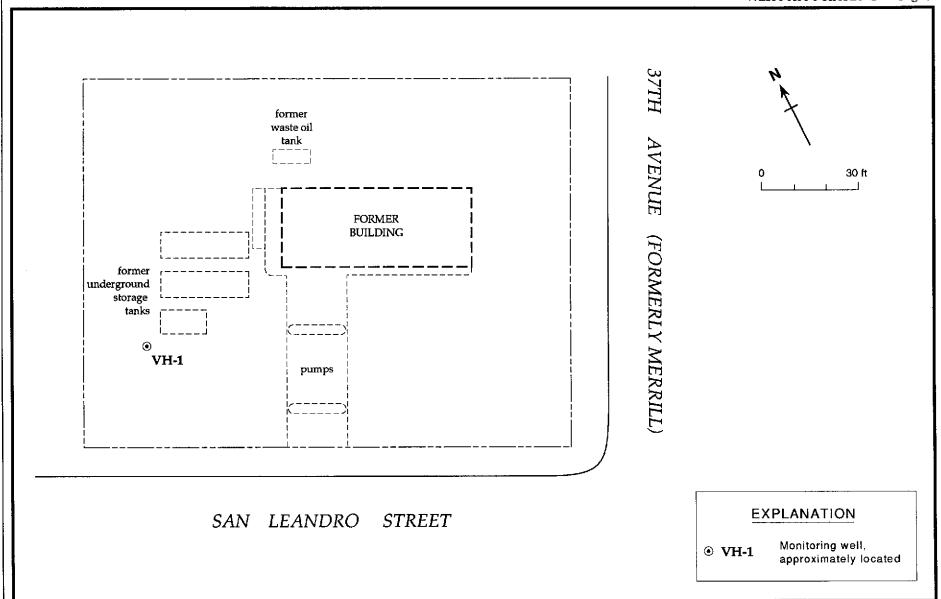


Figure 2. Monitoring Well Location - Former Chevron Service Station #94612, 3616 San Leandro Street, Oakland, California

Mr. John Randall October 2, 1989 4

CHEMICAL ANALYSES

The water sample was analyzed for total purgeable petroleum hydrocarbons (TPPH) by modified EPA Method 8015 and for benzene, ethylbenzene, toluene and xylenes (BETX) by EPA Method 8020. The results of the water analysis are presented in Table 1, and the analytic report is included as Attachment C. Analytic results for this sampling show hydrocarbon concentrations at a historic low.

We appreciate the opportunity to provide hydrogeologic consulting services to Chevron and trust that this report meets your needs. If you have any questions, please call Jim Carmody.

THE OF CALLER TO

Sincerely,

Weiss Associates

Robert E. Kitay Staff Geologist

Richard B. Weiss

Principal Hydrogeologist

REK/RBW

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Attachments: A - Water Sample Collection Records

B - Chain of Custody

C - Analytic Report

ATTACHMENT A WATER SAMPLE COLLECTION RECORDS

WATER SAMPLING DATA Well Name VH-) Date 9-15-89 Time
Job Name/Number Chevron Ookland IV Initials RER
Well Spring Surface Other
Location In pedroom
WELL DATA: Well type M (Describe; M - monitoring well)
Depth to Water 18.69 ft (pump/stat) Maximum Drawdown Limit (MDL) 114 ft
Well depth 28.57 ft (sounded) Well depth 28.5 ft (spec)
Well diameter 4 in. TOC height above ground NA ft Water elev. At ft
Volume Evacuated: Pumped Pumped Bailed
Time: Ston
Lorantization Control of the Control
vol. in cyl. = $\pi r^2 h$
Total Evacuated 35 gal. 7.48 gal/ft ³
Evacuation Rate gpm V_2 " casing = 0.163 gal/ft V_3 " casing = 0.367 gal/ft
· • • • • • • • • • • • • • • • • • • •
rump # and type Baller # and type v, s casing = 0.826 gal/ft
Hose # and type V_6 casing = 1.47 gal/ft V_8 casing = 2.61 gal/ft
· · · · · · · · · · · · · · · · · · ·
Sampling Port: Rate gpm Volume gal.
Location/description
حاله المعارض ا
Initial height of water in casing = 12.88 ft; volume = 8.4 gal x4)
Evacuation at drawdown limit - 3 x initial volume - gal.
Evacuation at sampling point = 1 x initial volume = gal.
Total to be evacuated = 33.6 gal.
Water Color: turbid Odor: yere strong
Description of sediment and/or foreign matter in sample: Modurate, amound
of fine arean to brown sitt
Point of collection: End of disposible polyethy lone bailer
Depth to water during pumping ft time Sampling ft time
Pumped dry? No After gal. Recovery rate
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather,
van running nearby, problems with equipment or sampling, etc., pump on/off
times, etc. (over).
CHEMICAL DATA
Temperature OC Thermometer # Specific Conductance umhos
pH Calibration4.07.0,10.0 Calibration TempOC
SAMPLES COLLECTED:
Bottle/ Filtered Preservative
Sample (size, u) (specify)
ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab
CP94359-1 40ml NU N NOHOW R GOS/BETH SAL
ml
ml section of the sec
ml
ml ml
m1
ml visit in the second of the
ml
ml
ml
mt
Potelog B Dalmathulana D Dalmana C D Class /Process Class
Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass;
0 = Other (describe)
Additional Cap Codes: Py - Polyseal; V - VOA/Teflon septa; M - Metal



S##10145
Page 1 of 1

,	v				SEND	RESULTS	TO: Jim Carmody	
CHAIN-OF-CUSTODY RECORD	AND ANALYTIC INS	TRUCTIONS			WA Pe	ersonnel:	Be sure to include copy of this	form in the field sampling files
Shuttle Inventory Number	:		•		Proje	ect ID:	4-438-01	
Sampled by: Robert Kitay Labor				super	arièr		NOTES TO LAB: 1) Specify analytic method and detection limit in report. 2) Notify us if there are any anomalous peaks on GC or other scans. 3) ANY QUESTIONS/CLARIFICATIONS: CALL US.	
No. of Con- tainers Sample ID	Sampling Date	Container Type ^A	Sample/ Analyze/ Hold ⁸	Turn- eround ^C	Analyze For:	,	Analytic Method/ Detection Limit	Comments
Z 099438-1 Z 099438.2	9/15/89 V		4		Gas/BET	<u> </u>		-
<u> </u>					?	<u> </u>		
				-				
Robert E. Ku	1/15/89	3/0/2/	Parti 9	10/89	5			
Dreat (A	Date 9/5/39	4 Long	(Signature)	9/18/89	Released by (Sign	. //t	149/1 9/18/89	x
Received by (Signature), Date Shipping Ca		rrier, Method, Date		Received by Lab Personnel Pate, Telephone			Seal intact?, Number	

A Sample Type Codes: W = Water, S = Soil, O = Other (Specify) Container Type Codes: P = Plastic bottles, G = Glass bottle, T = Brass tube, O = Other (Specifiy)

Analyze/Hold: A = Analyze; HOLD (spell out) = DO NOT ANALYZE UNLESS NECESSARY OR REQUESTED.

N = Normal Turnaround, F = 1-Week Turnaround, R = 24-hour Turnaround

SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX St., Ste. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 10145

DATE RECEIVED: 09/18/89

CLIENT: Weiss Associates CLIENT JOB NO.: 4-438-01 DATE REPORTED: 09/25/89

Page 1 of 2

Lab Number	Customer Sample Identification	Date Sampled
10145- 1	099438-1	09/15/89
10145- 2	099438-21	09/15/89

Laboratory Number:

10145

10145

ANALYTE LIST Amounts/Quantitation Limits (ug/1)

OIL AND GREASE: NA NA ND<500 5600 TPH/GASOLINE RANGE: TPH/DIESEL RANGE: NA NA **BENZENE:** 1900 ND<.5 **TOLUENE:** 90 ND<.5 ND<.5 ETHYL BENZENE: 350 160 ND<.5 XYLENES:

SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX St., Ste. D. SAN FRANCISCO, CA 94124 PHONE (415) 647-2081 CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
Diesel by Modified EPA SW-846 Method 8015
Gasoline by Purge and Trap: EPA Method 8015/5030
ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES
by EPA SW-846 Methods 5030 and 8020

Page 2 of 2 QA/QC INFORMATION SET: 10145

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: Duplicate RPD NA Minimum Detection Limit in Water: 5000ug/L

Modified EPA Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 1000ug/L
Daily Standard run at 200mg/L; RPD Diesel = NA
MS/MSD Average Recovery = NA: Duplicate RPD = NA

8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Water: 500ug/L
Daily Standard run at 2mg/L; RPD Gasoline = 2%
MS/MSD Average Recovery = 99%%: Duplicate RPD = 4%

8020/BTXE

Minimum Quantitation Limit in Water: 0.50ug/L Daily Standard run at 20ug/L; RPD = <15% MS/MSD Average Recovery = 99%%: Duplicate RPD = 4%

Richard Srna, Ph.D.

Laboratory Director