# HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 (510) 337-9335 (FAX)

StID 2944

June 23, 1997

Ms. Virginia Garcia 2077 Vintage Ln Livermore, CA 94550

Mr. Phil Briggs Chevron P.O. Box 5004 San Ramon, CA 94583

Re: Fuel Leak Site Case Closure for the Former Chevron Service Station 9-2864 at 1334 1st Street, Livermore, CA

Dear Ms. Garcia and Mr. Briggs:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

If you have any questions, please contact me at (510) 567-6762.

eva chu

Hazardous Materials Specialist

### enlosure:

- 1. Case Closure Letter
- 2. Case Closure Summary

c: files (chyron2.8)

# **HEALTH CARE SERVICES**

AGENCY



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1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9335 (FAX)

# REMEDIAL ACTION COMPLETION CERTIFICATION

StID 2944 - 1334 1st Street, Livermore, CA (3-10,000 gallon gasoline and 1-1,000 gallon waste oil tank removed in March 16, 1994)

June 23, 1997

Ms. Virginia Garcia 2077 Vintage Ln Livermore, CA 94550 Mr. Phil Briggs Chevron P.O. Box 5004 San Ramon, CA 94583

Dear Ms. Garcia and Mr. Briggs:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

cc: Chief, Division of Environmental Protection

Kevin Graves, RWQCB

Lori Casias, SWRCB (with attachment-case closure summary)

Cheryl Gordon, UST Cleanup Fund

Danielle Stefani, LFD

files-ec (chyron2.7)

## CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

Date: February 26, 1997 AGENCY INFORMATION I.

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700 Responsible staff person: Eva Chu Title: Hazardous Materials

Hazardous Materials Spec.

#### TI. CASE INFORMATION

Site facility name: Former Chevron Service Station 9-2864

Site facility address: 1334 1st Street, Livermore, CA 94550

Local Case No./LOP Case No.: RB LUSTIS Case No: N/A

3/23/94 SWEEPS No: N/A URF filing date:

#### Phone Numbers: Responsible Parties: Addresses:

2077 Vintage Ln, Livermore, CA 94550 Virginia Garcia 1.

2. Phil Briggs, Chevron P.O. Box 5004, San Ramon, CA 94583

Tank No:	Size in gal.:	<u>Contents:</u>	<pre>Closed in-place   or removed?:</pre>	<u>Date:</u>
1	10,000	Gasoline	Removed	3/16/94
2	10,000	31	i)	11
3	10,000	ži	lt .	11
4	1,000	Waste Oil	II .	13

## RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Overfilling

Site characterization complete? YES

Date approved by oversight agency: 1/23/97

Monitoring Wells installed? Yes Number: 4

Proper screened interval? Yes, 25' to 59' bgs

Highest GW depth below ground surface: 15.61' Lowest depth: 26.90' in MW-3

Flow direction: Northwest

Most sensitive current use: Commercial

Are drinking water wells affected? No Aquifer name: Mocho Subbasin

Is surface water affected? No Nearest affected SW name: Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? YES Where is report(s) filed? Alameda County 1131 Harbor Bay Pkwy Alameda, CA 94502

## Treatment and Disposal of Affected Material:

<u>Material</u>	Amount (include units)	Action (Treatment or Disposal w/destination)	<u>Date</u>
Tank &	4 USTs	Disposed by Erickson, Richmond, CA	3/16/94
Piping Soil	~200 cy	Disposed at BFI L.F., Livermore, CA	Unknown

Maximum Documented Contaminant Concentrations - - Before and After Cleanup Contaminant Soil (ppm) Water (ppb) Before After2 Before After7 180 220 ND TPH (Gas) <1.0 TPH (Diesel) <10 ND NA 0.11 1.7 67 ND Benzene 2.4 ND 0.10 5.9 Toluene  $0.34^{3}$ 3.5 2.5 ND Ethylbenzene  $3.7^{3}$ 17 11 ND Xylenes  $7,600^3$ 1,000<sup>4</sup> ND Oil & Grease  $120^{3}$ 130 ND Heavy metals Pb 6 <.005 ND 8010 Other 5.790<sup>5</sup> 8270 ND ND

NOTE	1.	soil	sample	collected	beneath	fuel	USTs a	t time	of	removal,	3/	16/	/94
------	----	------	--------	-----------	---------	------	--------	--------	----	----------	----	-----	-----

maximum hydrocarbon concentrations were detected in soil from boring B-5, at 36' bgs, 9/94. Levels of HCs in soil samples collected from waste oil pit after overexcavation were low or ND, 3/94 soil sample collected beneath waste oil pit at time of removal, 3/16/94

#### IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? YES Site management requirements: None

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommissioned: Yes

Number Retained: 1 Number Decommissioned: 3

List enforcement actions taken: List enforcement actions rescinded: NA

<sup>3</sup> 

soil sample from waste oil pit after overexcavation, 3/22/94

cummulative SVOCs (1.4ppm naphthalene, 1.8ppm 2-methylnaphthalene, 0.74ppm 5 pyrene; 1.5ppm bis(2-Ethylhexyl)phthalate, 0.035ppm benzo(a)pyrene

groundwater from well MW-3, 9/95 6

groundwater from replacement well MW-3R which is closer to former waste oil 7

## V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu

Signature: Lower

Reviewed by

Name: Barney Chan

Signature: burney the

Name: Thomas Peacock

Signature: Man Daroch

VI. RWQCB NOTIFICATION

Date Submitted to RB: 3/4/97

RWQCB Staff Name: Kevin Graves

Signature:

Title: Haz Mat Specialist

Date: 3/3/97

Title: Haz Mat Specialist

Date: 2/28/97

Title: Supervisor

Date: 3-3-97

RB Response: April

Title: AWRCE

Date: 3-18-97

## VII. ADDITIONAL COMMENTS, DATA, ETC.

A total of four USTs were removed from the former Chevron Station on March 16, 1994. Three 10K gallon gasoline USTs were in a common pit and a 1,000 gallon waste oil UST was in a separate pit. Some staining of pea gravel and surrounding soil was observed at the fill pipe end of the waste oil tank. Two soil samples were collected from native soil below each of the four USTs. Only soil sample UST4-2, collected from the waste oil pit at 9' bgs contained elevated levels of petroleum hydrocarbons (7,600 ppm TOG, 120 ppm lead, and 5.79 ppm cummulative semi-volatile organics). (See Figs 1, 2; Tables 1, 2)

The waste oil pit was overexcavated, removing ~200 cy of soil. Four confirmatory soil samples (WX-N-17, WX-S-18, WX-W-15, and WX-E-17) were collected at 15' to 20.0' bgs. Up to 1,000 ppm TOG was detected at 18' bgs. TPHg, TPHd, and BTEX, as well as 8010 and 8270 compounds were identifed at low to non-detectable levels. (See Fig 3, Table 3)

In September 1994 five soil borings (B-1 through B-5) were drilled to further delineate the extent of soil contamination near the former waste oil tank and to determine if groundwater was impacted by the hydrocarbon release. Borings B-1 through B-3 were converted into groundwater monitoring wells MW-1 through MW-3, respectively. Sediments encountered consisted of silty sand, clayey silts, and gravelly sands. Groundwater was first encountered at ~35' to 41' bgs, and following well development, depth to water was at ~27' to 28' bgs. (See Fig 4 and Boring Logs)

Soil from boring B-4 contained 850 ppm TOG at 25.5' bgs; and soil from boring B-5 at 36' bgs contained 180 ppm TPHg, 182 ppm TOG, and 1.7, 5.9, 3.5, and 17 ppm BTEX, respectively. Initial groundwater sampling identified up to 81 ppb TPHg, 11 ppb benzene, and 130 ppb lead from well MW-3. Lead was not detected in a subsequent sampling event from well MW-3. (See Table 4)

After four sampling events, MW-3 continued to exhibit low levels of TPHg and BTEX. Benzene levels did not appear to be decreasing. However, due to the proposed development of the site all three monitoring wells were abandoned in September 1995. A replacement well MW-3R, for abandoned well MW-3, was installed in June 1996. Well MW-3R has been sampled twice (June and August 1996). No TPHg or BTEX was identifed in the August 1996 sampling event. Continued groundwater sampling is not warranted. (See Fig 5, Table 5)

Although up to 67 ppb benzene was identified in groundwater from well MW-3, at ~20' bgs, and up to 1.7 ppm benzene was in soil from boring B-5 at 36' bgs, it should not pose a risk to human health based on ASTM's Tier 1 Risk-Based Screening Level Look-Up Table for soil and/or groundwater volatilization to outdoor air, the only potential exposure pathway.

In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
- the dissolved plume is not migrating;
- o no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.

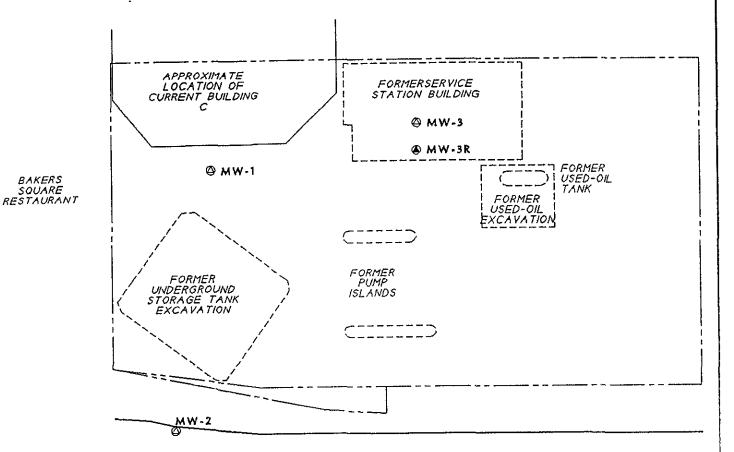
chyron2.5

## EXPLANATION

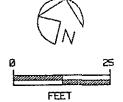
♠ MW-3R

APPROXIMATE LOCATION OF MONTIORING

ABANDONED MONITORING WELL LOCATION



WEST FIRST STREET



TITLE : SITE MAP

SOURCE

BAKERS

LOCATION: CHEVRON SERVICE STATION No.: 9-2864
1334 FIRST STREET. LIVERMORE, CALIFORNIA

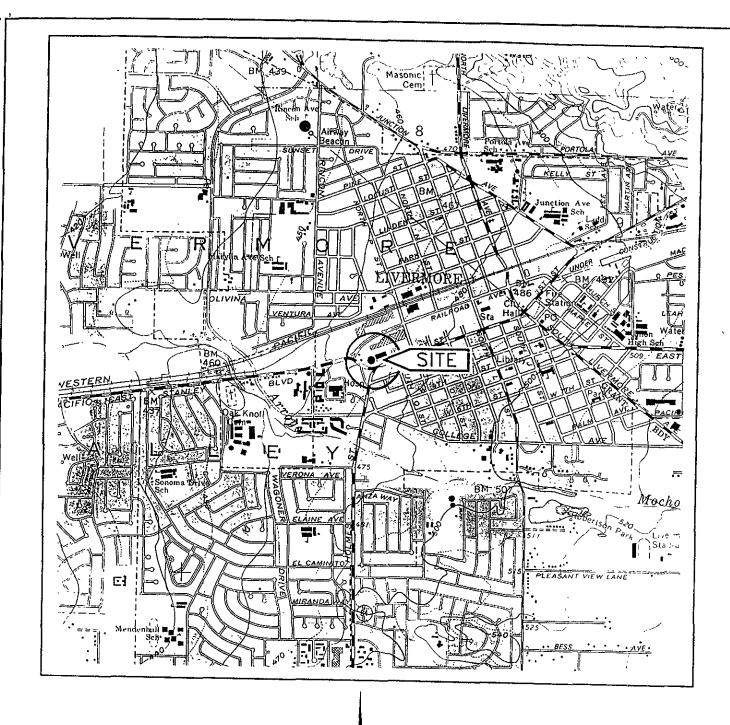
CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC



GEOCONSULTANTS, INC

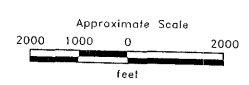
SAN JOSE, CALIFORNIA Project No. G758-09

D-EVRON/D-62864\BASE



SOURCE: U.S. GEOLOGICAL SURVEY 7.5-MINUTE QUADRANGLE LIVERMORE, CALIFORNIA PHOTOREVISED 1980

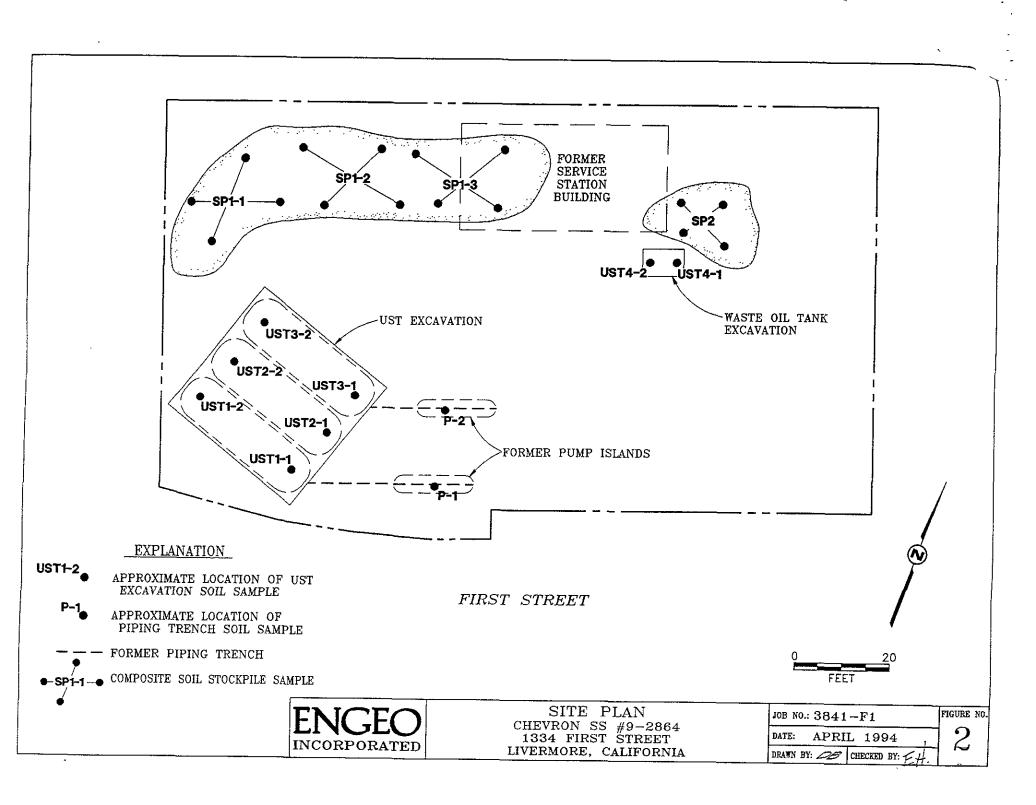
PLATE 1

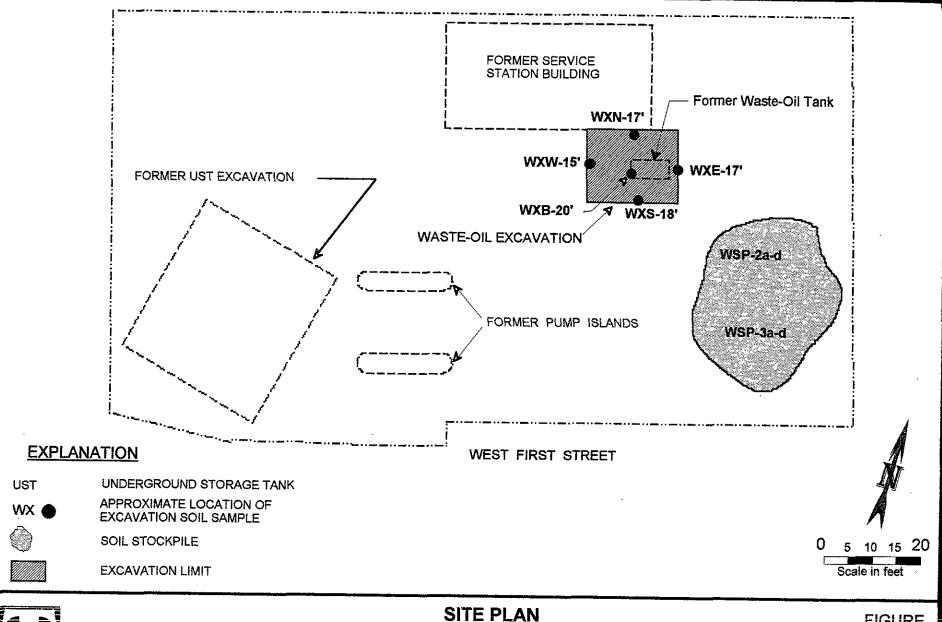


# **Canonie** Environmental

DRAWING NO. 94-223-A1

SITE VICINITY MAP
CHEVRON STATION 9-2864
1334 FIRST STREET
LIVERMORE, CALIFORNIA







CHEVRON SERVICE STATION NO. 9-2864 1334 West First Street Livermore, California

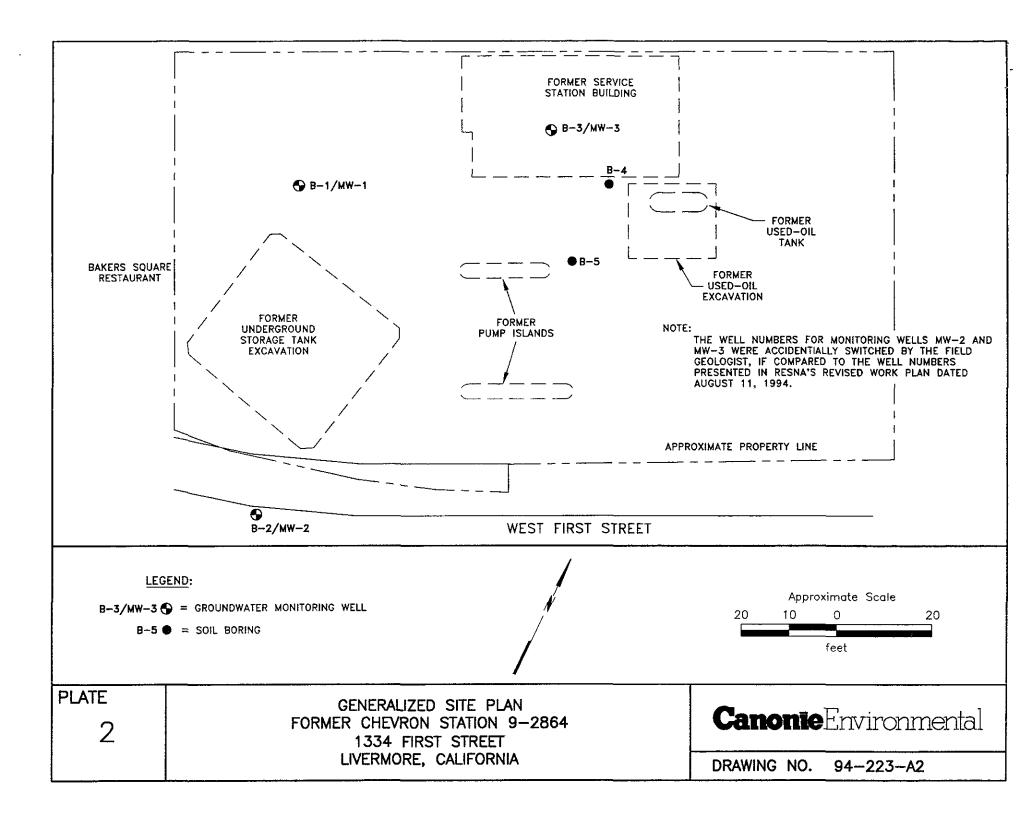
**FIGURE** 

PROJECT NO. 2864-1

DRAWN BY: Wţ

DATE 4/94

BASE MAP:. ENGEO INC SITE PLAN 3/94



# TABLE I UST EXCAVATION/PIPING SOIL SAMPLES Laboratory Analysis Results

(Concentrations reported in parts per million)

SAMPLE	TPH (gas)	BENZENE	TOLUENE	E.BENZENE	XYLENES	LEAD
UST1-1 (14 ft.)	<1.0	0.031	0.011	<.005	<.015	<5
UST1-2 (14 ft.)	< 1.0	<.005	<.005	<.005	<.015	6
UST2-1 (14 ft.)	< 1.0	0.012	0.009	<.005	<.015	
UST2-2 (14 ft.)	< 1.0	<.005	<.005	<.005	<.015	
UST3-1 (14 ft.)	< 1.0	0.11		<.005	0.038	<b></b>
UST3-2 (14 ft.)	< 1.0	<.005	0.006	<.005	0.019	
P-1 (4 ft.)	< 1.0	<.005	<.005	<.005	<.015	7
P-2 (3½ ft.)	<1.0	<.005	<.005	<.005	<.015	



# TABLE II WASTE OIL UST SOIL SAMPLES

Laboratory Analysis Results (Concentrations reported in parts per million)

ANALYTE	UST4-1 (9 ft.)	UST4-2 (9 ft.)
TPH(gas)	< 1.0	< 1.0
TPH(diesel)	< 10	< 10
TOG	5	7600
Benzene	<.005	<.020
Toluene	<.005	0.096
Ethyl Benzene	<.005	0,35
Xylenes	<.015	3.7
EPA 8010	<.005	<.005
Σ EPA 8270	ND	5790*
Cadmium	< 0.5	< 0.5
Chromium	31,	31
Lead	<5	120
Nickel	100	110
Zinc	26	26

ND: Not detected above laboratory reporting limit

<sup>\*</sup>Cumulative semi-volatile organics in parts per billion (ppb) (see Appendix D)

## **TABLE A**

# WASTE-OIL OVEREXCAVATION SAMPLING SUMMARY

Results in mg/Kg (parts per million - ppm), unless noted.

WASTE-OIL OVEREXCAVATION RESULTS

SAMPLE ID	DEPTH (FT.)	DATE	LAB	TPH- Gasoline	Benzene	Toluene	Ethyt-	Xvlenes	TPH	Foe
WX-B-20	20	22-Mar-94	GTEL	2.9	0.042	0.010	benzene ND	0.016	Diesel	
WX-E-17'	17	22-Mar-94	GTEL	ND	ND	ND	ND	ND	ND	550
WX-S-18'	18	22-Mar-94	GTEL	· ND	ND	ND	ND	ND	ND ND	510
WX-W-15'	15	22-Mar-94	GTEL	ND	ND	ND'	ND	<del></del>	ND	1000
WX-N-17'	17	22-Mar-94	GTEL	ND	ND	ND	· · · · · · · · · · · · · · · · · · ·	ND	ND	22
		···				NU	ND	MD	ND	160

ADDITIONAL WASTE-OIL OVEREXCAVATION RESULTS

SAMPLE ID	DEPTH (FT.)		LAB	Cadmium	Chromium	Lead	Nickel	Zine	8270
WX-B-20'	20	22-Mar-94	GTEL	ND	32	6	94	31	(ppb) CAR (*)
WX-E-17'	17	22-Mar-94	GTEL	ND	45	6	110	35	··
WX-S-18'	18	22-Mar-94	GTEL	ND	37	ND	100	28	CAR (&)
WX-W-15'	15	22-Mar-94	GTEL	ND	26	ND	99	25	ND
WX-N-17'	17	22-Mar-94	GTEL	ND	46	ND	150	44	ND ND

# WASTE-OIL STOCKPILE SAMPLING SUMMARY

Results in mg/Kg (parts per million - ppm), unless noted.

WASTE-OIL STOCKPILE SAMPLING RESULTS

WSP-2A-D 22-Mar-94	GTEL	4.0		وعراب والمناب والمام والم	benzene	17 19 17 11 1 1 1 1 1 1 1 1	Diesel	5.7%的心体哪样
	OILL	1.2	ND	ND	ND	0.043	ND	170
WSP-3A-D 22-Mar-94	GTEL	ND	ND	ND	ND	ND	ND	7

ADDITIONAL WASTE-OIL STOCKPILE SAMPLING RESULTS

SAMPLE	DATE	LAB.	Cadmium	Chromium	Lead	Nickel	Zíno	6270
WSP-2A-D	22-Mar-94	GTEL	ND	31	76	110	43	(ppb) CAR (#)
WSP-3A-D	22-Mar-94	GTEL	NR	NR	NR	NR	NR	ND

TPH-Gasoline = Total Petroleum Hydrocarbons calculated as Gasoline.

TPH-Diesel = Total Petroleum Hydrocarbons calculated as Diesel.

TOG = Total Oil & Grease

NR ≈ Not Requested

ND = Not Detected at or above the laboratory detection limit.

CAR = See Certified Analytical Reports for Results

\* = 340 ug/Kg (parts per billion) bis(2-Ethylhexyl)phthalate

& = 360 ug/Kg (parts per billion) bis(2-Ethylhexyl)phthalate

# = 1400 ug/Kg (parts per billion) bis(2-Ethylhexyl)phthalate

Table 2
SOIL ANALYTICAL RESULTS
Former Chevron Service Station 9-2864
1334 First Street
Livermore, California
(Page 1 of 2)

S-5.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-10.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-10.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-15.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-20.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-20.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-25.5-B1 9/29/94 <1 NA 0.022 <0.005 0.007 0.031 NA S-30.5-B1 9/29/94 <1 NA 0.190 <0.005 0.015 0.051 NA S-35.5-B1 9/29/94 <1 NA 0.008 <0.005 <0.005 <0.015 NA S-5.5-B2 9/29/94 <1 NA 0.008 <0.005 <0.005 <0.015 NA S-10.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-21.0-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-21.0-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0	Sample	Date	TDII.	Total			Ethyl-	Total	
S-10.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-15.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-20.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-25.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-30.5-B1 9/29/94 <1 NA 0.022 <0.005 0.007 0.031 NA S-30.5-B1 9/29/94 <1 NA 0.008 <0.005 0.015 0.051 NA S-35.5-B2 9/29/94 <1 NA 0.008 <0.005 <0.005 <0.005 <0.015 NA S-10.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-21.0-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-21.0-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-30.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 NA S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-30.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-30.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-30.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-40.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.0015 <10 S-40.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.0015 <10 S-40.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.0015 <10 S-40.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.0015 <10 S-40.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005		Date	TPHg	Lead	Benzene	Toluene	<u>benzene</u>	Xylenes	O&G
S-10.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-15.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-20.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-25.5-B1 9/29/94 <1 NA 0.002 <0.005 <0.005 <0.005 <0.0015 NA S-30.5-B1 9/29/94 <1 NA 0.190 <0.005 0.015 0.051 NA S-35.5-B2 9/29/94 <1 NA 0.008 <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA 0.008 <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-21.0-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-30.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-10.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 <1 <5 <0.007 <0.007 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 <		9/29/94	<1	NA	< 0.005	< 0.005	< 0.005	< 0.015	NA
S-15.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-20.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-25.5-B1 9/29/94 <1 NA 0.022 <0.005 0.007 0.031 NA S-30.5-B1 9/29/94 <1 NA 0.190 <0.005 0.015 0.051 NA S-35.5-B2 9/29/94 <1 NA 0.008 <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA 0.008 <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-10.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-21.0-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-30.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.007 <0.007 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <1		9/29/94	<1	NA	< 0.005	< 0.005	< 0.005		
S-20.5-B1 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-25.5-B1 9/29/94 <1 NA 0.022 <0.005 0.007 0.031 NA S-30.5-B1 9/29/94 1.2 NA 0.190 <0.005 0.015 0.051 NA S-35.5-B1 9/29/94 <1 NA 0.008 <0.005 <0.005 <0.005 <0.015 NA S-5.5-B2 9/29/94 <1 NA 0.008 <0.005 <0.005 <0.005 <0.015 NA S-10.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-21.0-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-15.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.007 0.007 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.007 0.007 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.007 0.007 <0.005 <0.005 <0.015 <10 S-26.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-26.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-26.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-26.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-26.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-26.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-26.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-26.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-26.5-B3 9/28/94 <1 <5	S-15.5-B1	9/29/94	<1	NA	< 0.005	< 0.005	< 0.005		
S-25.5-B1 9/29/94 <1 NA 0.022 <0.005 0.007 0.031 NA S-30.5-B1 9/29/94 1.2 NA 0.190 <0.005 0.015 0.051 NA S-35.5-B1 9/29/94 <1 NA 0.008 <0.005 <0.005 <0.005 <0.015 NA S-5.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-10.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-21.0-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-10.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-20.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.005 <0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.005 <0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.005 <0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.005 <0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.005 <0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.005 <0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.005 <0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.005	S-20.5-B1	9/29/94	<1	NA	< 0.005	< 0.005			
S-30.5-B1 9/29/94 1.2 NA 0.190 <0.005 0.015 0.051 NA S-35.5-B1 9/29/94 <1 NA 0.008 <0.005 <0.005 <0.005 <0.015 NA S-5.5-B2 9/29/94 <1 NA 0.008 <0.005 <0.005 <0.005 <0.015 NA S-5.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-10.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-21.0-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-10.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-15.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.007  0.007 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.007  0.007 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.00	S-25.5-B1	9/29/94	<1	NA	0.022	< 0.005			
S-35.5-B1 9/29/94 <1 NA 0.008 <0.005 <0.005 <0.015 NA S-5.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-10.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-10.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-21.0-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.015 <10 S-10.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.015 <10 S-15.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.015 <10 S-15.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.007 0.007 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.007 0.007 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <	S-30.5-B1	9/29/94	1.2	NA	0.190	< 0.005			
S-5.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-10.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-21.0-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-6.0-B3 9/28/94 <1 S <0.005 <0.005 <0.005 <0.015 NA S-10.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-15.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-30.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 <0.007 0.007 <0.005 <0.005 <0.015 <10 S-40.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 NA <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 NA <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 NA <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 NA <5 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0	S-35.5-B1	9/29/94	<1	NA	800.0	< 0.005			
S-10.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-15.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-21.0-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-6.0-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 NA S-15.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-30.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 <0.007 0.007 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 <0.007 0.007 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.	S-5.5-B2	9/29/94	<1	NA	< 0.005	< 0.005			
S-15.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-21.0-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.005 <0.015 NA S-6.0-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.005 <0.015 NA S-6.0-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-10.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.015 <10 S-20.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-30.5-B3 9/28/94 <1 S5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-30.5-B3 9/28/94 <1 S5 <0.007 0.007 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 S5 0.007 0.007 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 S5 0.007 0.007 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 S5 0.007 0.007 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 S5 0.007 0.007 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 S5 0.007 0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 S5 0.005 <0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 NA S5 NA NA S5 NA NA S5 NA NA NA S5 NA NA NA NA NA S5 NA	S-10.5-B2	9/29/94	<1	NA	< 0.005				
S-21.0-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.0015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.0015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.0015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.0015 NA S-6.0-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.005 <0.015 NA S-10.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-15.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-20.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <7 0.081 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 NA S-5 NA NA	S-15.5-B2	9/29/94	<1	NA	< 0.005				
S-25.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-6.0-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-10.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-15.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-20.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <7 0.081 <0.005 <0.005 <0.015 <10 S-40.5-B3 9/28/94 <1 <5 <0.007 0.007 <0.005 <0.015 <10 S-40.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 NA <5 NA	S-21.0-B2	9/29/94	<1	NA	< 0.005	< 0.005			
S-30.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-6.0-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-10.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-15.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-20.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-30.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-30.5-B3 9/28/94 <1 <7 <0.081 <0.005 <0.005 <0.015 <10 S-40.5-B3 9/28/94 <1 <5 <0.007 <0.005 <0.005 <0.015 <10 S-40.5-B3 9/28/94 <1 <5 <0.007 <0.007 <0.005 <0.015 <10 S-40.5-B3 9/28/94 NA <5 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 NA <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 NA <5 <0.005 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 NA <5 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	S-25.5-B2	9/29/94	<1	NA	< 0.005				
S-35.5-B2 9/29/94 <1 NA <0.005 <0.005 <0.005 <0.015 NA S-6.0-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-10.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-15.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-20.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-30.5-B3 9/28/94 <1 <7 0.081 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.005 <0.005 <0.015 <10 S-40.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.015 <10 S-40.5-B3 9/28/94 NA <5 NA	S-30.5-B2	9/29/94	<1	NA	< 0.005				
S-6.0-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10	S-35.5-B2	9/29/94	<1	NA	< 0.005		•		
S-10.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-15.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-20.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 40 <5 0.830 2.1 0.780 4.4 24 S-30.5-B3 9/28/94 <1 7 0.081 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.015 <10 S-40.5-B3 9/28/94 NA <5 NA <5 NA NA SE N	S-6.0-B3	9/28/94	<1	<5	< 0.005				
S-15.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-20.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 40 <5 0.830 2.1 0.780 4.4 24 S-30.5-B3 9/28/94 <1 7 0.081 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.015 <10 S-40.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 NA <5 NA <5 NA NA NA SE NA NA NA SE NA NA NA SE	S-10.5-B3	9/28/94	<1	<5	< 0.005				
S-20.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-25.5-B3 9/28/94 40 <5 0.830 2.1 0.780 4.4 24 S-30.5-B3 9/28/94 <1 7 0.081 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.015 <10 S-40.5-B3 9/28/94 NA <5 NA <5 NA NA SE NA NA NA NA SE NA NA NA SE NA NA NA SE NA NA NA SE NA NA SE NA NA SE NA NA SE NA NA NA SE NA NA NA SE NA NA NA SE NA NA SE NA NA SE NA NA NA NA SE NA NA NA SE NA NA NA SE NA NA NA SE NA	S-15.5-B3	9/28/94	<1	<5	< 0.005				
S-25.5-B3 9/28/94 40 <5 0.830 2.1 0.780 4.4 24 S-30.5-B3 9/28/94 <1 7 0.081 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.015 <10 S-40.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 NA <5 NA	S-20.5-B3	9/28/94	<1	<5	< 0.005				
S-30.5-B3 9/28/94 <1 7 0.081 <0.005 <0.005 <0.015 <10 S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.015 <10 S-40.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 NA <5 NA <5 NA	S-25.5-B3	9/28/94	40	<5					
S-35.5-B3 9/28/94 <1 <5 0.007 0.007 <0.005 <0.015 <10 S-40.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 NA <5 NA	S-30.5-B3	9/28/94	<1	7					
S-40.5-B3 9/28/94 <1 <5 <0.005 <0.005 <0.005 <0.015 <10 S-45.5-B3 9/28/94 NA <5 NA	S-35.5-B3	9/28/94	< 1	<5					
S-45.5-B3 9/28/94 NA <5 NA NA NA	S-40.5-B3	9/28/94	<1						
NA NA NA	S-45.5-B3	9/28/94							
				-	, , ,	NA.	IVA	NA	NA

# Table 2 SOIL ANALYTICAL RESULTS Former Chevron Service Station 9-2864 1334 First Street Livermore, California

(Page 2 of 2)

			Total			Ethyl-	Total	
Sample	Date	TPHg	Lead	Benzene	Toluene	benzene	Xylenes	O&G
S-50.0 <b>-</b> B3	9/28/94	NA	<5	NA	NA	NA	NA	NA
S-56.0-B3	9/28/94	NA	<5	NA	NA	NA	NA	NA
S-59.5 <b>-</b> B3	9/28/94	NA	<5	NA	NA	NA	NA	NA
S-6.0-B4	9/28/94	<1	21	< 0.005	< 0.005	< 0.005	< 0.015	39
S-10.5 <b>-</b> B4	9/28/94	<1	6	< 0.005	< 0.005	< 0.005	< 0.015	<10
S-15.5-B4	9/28/94	<1	<5	< 0.005	< 0.005	< 0.005	< 0.015	<10
S-20.5-B4	9/28/94	<1	<5	< 0.005	< 0.005	< 0.005	< 0.015	<10
S-25.5-B4	9/28/94	2.6	<5	0.066	0.006	0.029	0.051	850
S-30.5-B4	9/28/94	<1	6	< 0.005	< 0.005	< 0.005	< 0.015	10
S-36.0-B4	9/28/94	<1	<5	< 0.005	< 0.005	< 0.005	< 0.015	<10
S-40.5-B4	9/28/94	<1	<5	< 0.005	< 0.005	< 0.005	< 0.015	<10
S-5.5-B5	9/28/94	2.2	8	< 0.005	0.018	0.014	0.023	18
S-10.5-B5	9/28/94	<1	<5	< 0.005	< 0.005	< 0.005	< 0.015	<10
S-15.5-B5	9/28/94	<1	<5	< 0.005	< 0.005	< 0.005	< 0.015	<10
S-20.5-B5	9/28/94	<1	<5	0.030	< 0.005	< 0.005	< 0.015	<10
S-25.5 <b>-</b> B5	9/28/94	69	<5	0.340	2.5	1.1	6.5	<10
S-30.5-B5	9/28/94	15	8	0.130	0.110	0.130	0.350	<10
S-36.0-B5	9/28/94	180	<5	1.7	5.9	3.5	17.0	182
S-41.5-B5	9/28/94	19	<5	0.028	0.130	0.340	1.3	26

## Notes:

Results in parts per million

TPHg = Total petroleum hydrocarbons as gasoline

O&G = Oil and grease

Less than indicated detection limit established by the laboratory

NA = Not analyzed

# Cumulative Table of Well Data and Analytical Results

Vertical Mea	surements	are in feet.			Analy	tical results ar	e in parts per	billion (ppb)					
DATE	Well Head	Ground Water	Depth To	Notes	TPH-	Benzene	Toluene	Ethyi-	Xylene	Total Oil &	Lead	MTBE	EPA
DATE	_ Elev.	Elev.	Water	Moles	Gasoline	Delixelle	roloeria	Benzene	VAIGHG	Grease	Leau	MIDE	8270
MW-1										<del> </del>			
10/05/94	464.71	436.21	28.50		<50	<0.5	<0.5	<0.5	<0.5				
03/29/95	464.71	448.15	16.56							**			
04/14/95	464.71	448.51	16.20								••		
05/11/95	464.71	448.44	16.27	••	<50	<0.5	<0.5	<0.5	<0.5	**			
08/10/95	464.71	445.26	19.45		<50	<0.5	<0.5	<0.5	<0.5				
09/19/95	464.71	443.46	21.25	••	<50	<0.5	<0.5	<0.5	<0.5				
09/25/95	464.71	443.51	21.20			••							<0.5 - <10
06/19/96	464.71			Abandoned									
MW-2													
10/05/94	463.98	435.58	28.40	•	<50	<0.5	<0.5	<0.5	<0.5				
03/29/95	463.98	448.56	15.42				~0.0	~U.5	~~				
04/14/95	463.98	448.80	15.18							**			••
05/11/95	463.98	449.00	14.98	••	<50	<0.5	<0.5	<0.5	<0.5				••
08/10/95	463.98	446.24	17.74		<50	<0.5	<0.5	<0.5	<0.5				
09/19/95	463.98	444.23	19.75		<50	<0.5	<0.5	<0.5	<0.5	**			
09/25/95	463.98	444.30	19.68							••			<0.5 - <10
06/19/96	463.98			Abandoned								••	••
14047 O													
MW-3													
10/05/94	464.19	437.29	26.90	*	81	11	6.8	<0.5	15	<5000	130		
03/29/95	464.19	448.19	16.00	••									
04/14/95	464.19	448.58	15.61							~~	<b></b>		
05/11/95	464.19	448.42	15.77		<50	2.2	<0.5	<0.5	<0.5		<5.0		
08/10/95	464.19	445.28	18.91	••	150	64	0.51	<0.5	4.0			<2.5	
09/19/95	464.19	443.24	20.95		220	67	2.4	2.5	11			5.7	
09/25/95	464.19	443.27	20.92	**									<0.5 - <10
06/19/96	464.19			Abandoned									

<sup>\*</sup> It appears that the gradient information for wells MW-2 and MW-3 was switched on this date due to conflicting site markings.

# Cumulative Table of Well Data and Analytical Results

Vertical Mea	surements	are in feet.			Analytical results are in parts per billion (ppb)								
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	Total Oil & Grease	Lead	мтве	EPA 8270
MW-3R					•	•							
06/19/96			19.32		<50	<0.5	0.50	<0.5	0.52			3.7 .	••
08/14/96			21.56		<50	<0.5	<0.5	<0.5	<0.5			<2.5	
TRIP B	LANK												
05/11/95					<50	<0.5	<0.5	<0.5	<0.5				
08/10/95					<50	<0.5	<0.5	<0.5	<0.5				
09/19/95					<50	<0.5	<0.5	<0.5	<0.5				••
06/19/96					••								
08/14/96				~~	••								

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on March 29, 1995. Earlier field data and analytical results are drawn from the Canonie Environmental report.

# ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons MTBE = Methyl t-Butyl Ether Total depth of boring: 60 feet

Diameter of boring: 8 inches

Date drilled: 9-29-94

Drilling Company: Woodward Drilling

Driller: Eric and Mike

Drilling method: Hollow-Stem Auger

Casing diameter:

Casing material:

Sch 40 PVC

Slot size:

0.020-inch

Sand size:

No. 3 Sand

Screen Interval:

Field Geologist:

Robin Adair

Description Description	Well Const
Silty gravel, light brown, damp, loose; no odor.  Dark brown.	V V V V V V V V V V V V V V V V V V V
Silty sandy gravel, dark brown, damp, dense; no odor, gravel to	∇∫ \
GC Clayey sandy gravel, brown with red mottling and green blebs, d very dense; no odor.	dense to V
Greenish—brown with red and black blebs; no odor.	V
Moist.	<b>∀</b>
Sandy clay, reddish-brown, moist, medium plasticity, very stiff;  CL uniform texture.  Clayey sandy gravel, brown with green and black mottling, mois dense; no odor.	st, very
CL Silty clay, reddish—brown, moist, medium ptasticity, stiff; no odd uniform texture.	
GC Clayey sandy gravel, brown with reddish-orange mottling, wet, we dense; no odor.	very
GC Clayey sandy gravel, brown with reddish-orange mottling, wet, we dense; no odor.  (Section continues descriptions)	

**Canonie** Environmental

DRAWING NO. 94-223-A5

LOG OF BORING B-1/MW-1 CHEVRON STATION 9-2864 1334 FIRST STREET LIVERMORE, CALIFORNIA

P.I.D.	Sample No.	Blows	Depth	USCS Code	Description	Well Const.
0	S-40.5	30 50/5		GC	Clayey sandy gravel, brown with reddish—orange mottling, wet, very dense; no odor.	
			- 42 -			[ [ ] [
		27	- 44 -			
0	S-45.5	27 33 50/3	46 -			
			- 48 -			
	 	12	50 -			
0	S~50.5	12 21 30		GW → GC	Sandy gravel, brown, wet, very dense; no odor.  Clayey sandy gravel, reddish-brown with green blebs, very dense.	1 1 1
		i	52 -	CL	Silty clay, reddish-brown, damp, medium plasticity, hard; no odor.	<b>†</b> } -{ ``\
			- 54 -			
0	S-55.5	9 21 29	56 -	CL	Sandy silty clay with some gravel, reddish—brown, damp, medium plasticity, hard; no odor, gravel to 1".	1 [ ]
		٠	- 58 <del>-</del>			
0	S-59.5	15 25 32	60 -	GC	Clayey sandy gravel, reddish—brown with black blebs, damp, very dense; no odor.	] [ ] ]
			$\Gamma$ $^{\circ}$ $^{\circ}$		Total Depth = 60 feet.	
			62 -			
			64 -			
			66 -			
			  - 68			
			70			
						1
			72 -			
			74 -			
			76 –			
			78			
			80 -			
			82 -			
			84 -			
			•			
			<del>-</del> 86			
			- 88 -			
			90 -			

DRAWING NO. 94-223-A6

LOG OF BORING B-1/MW-1 CHEVRON STATION 9-2864 1334 FIRST STREET LIVERMORE, CALIFORNIA Total depth of boring: 60 feet

Diameter of boring: 8 inches

Date drilled: 9-29-94

Drilling Company: Woodward Drilling

Driller: Eric and Mike

Drilling method: Hollow—Stem Auger

Casing diameter:

Casing material:

Sch 40 PVC

Slot size:

0.020-inch

Sand size:

No. 3 Sand

Screen interval:

25 feet to 60 feet

Robin Adair

P.I.D.	Sample No.	Blows			Well Const.	
			- 2 -	GM CL	Asphalt (4–6 Inches).  Silty sandy gravel, brown, damp, loose; no odor.  Silty clay with some sand, dark brown, damp, medium plasticity, medium dense; no odor.	V V V V V V V V V V V V V V V V V V V
0	S-5.5	4 6 8	- 6 -	GC	Clayey sandy gravel, reddish—brown with green blebs, damp, medium dense; no odor, gravel to 1—1/2".	7
0	S-10.5	22 50	- 10 -		Reddish—orange mottling, moist, very dense.	
			- 12 - 14 -			7
0	S-15.5	14 19 28	- 16 - - 18 -			7
0	S-21	26 50	- 20 <b>-</b> - 22 -			7
0	S-25.5	14 29 35	- 24 - - 26 -	_		
0	S-30.5	18 50	- 28 - - 30 - - 32 -	¥ √ CL GC	Silty clay with some sand, brown, moist, medium plasticity, hard; no odor, uniform texture.  Clayey sandy gravel, reddish—brown with orange and green mottling,	
o	S-35.5	18 22 50	- 34 <b>-</b>	▽ = sc	Wet.  Clayey sand with some gravel, brown with reddish—orange mottling, wet, very dense; no odor, subangular gravel to 2", medium—grained	
			- 38 <b>-</b> - 40 <b>-</b>		sand. (Section continues downward)	

**Canonie** Environmental

DRAWING NO. 94-223-A7

LOG OF BORING B-2/MW-2 CHEVRON STATION 9-2864 1334 FIRST STREET LIVERMORE, CALIFORNIA

P.I.D.	Sample No.	유	Depth	Code	Description	Well Const.
0	S-40.5	19 22 30	- 42 -	sc	Clayey sand with some gravel, brown with reddish—orange motiling, wet, very dense; no odor, subangular gravel to 2", medium—grained sand.	
0	S-45.5	12 23 25	- 44 - - 46 - - 48 -			
o	S-50.5	11 36 40	- 50 - - 52 -			
o	S-55.5	8 20 28	- 54 - - 56 -	CL	Silty clay, minor sand, reddish—brown, damp, medium plasticity, hard; no odor, uniform texture.	
0	S-59.5	8 15 25	58 -	GC	Clayey sandy gravel, reddish-brown with black blebs, damp, very dense; no odor, gravel to 2".  Total Depth = 60 feet.	
			- 62 - - 64 - - 66 - - 70 - - 72 - - 74 - - 76 - - 78 - - 80 - - 82 - - 84 - - 86 - - 88 -			

DRAWING NO. 94-223-A8

LOG OF BORING B-2/MW-2 CHEVRON STATION 9-2864 1334 FIRST STREET LIVERMORE, CALIFORNIA Total depth of boring: 60 feet

Diameter of boring: 8 inches

Date drilled: 9-28-94

Drilling Company: Woodward Drilling

Driller: Eric and Mike

Drilling method: Hollow—Stem Auger

Casing diameter: 2 inches
Casing material: Sch 40 PVC
Stot size: 0.020—inch
Sand size: No. 3 Sand
Screen Interval: 25 feet to 60 feet
Field Geologist: Robin Adair

P.I.D.	Sample No.	Blows	Depth	USCS Code	Description	Well Const.
0			- 2 <b>-</b>	GM	Silty gravel, light brown, damp, loose; no odor.	7
0	S-6	9 8 10	- 4 - - 6 -	GC	Clayey sandy gravel, brown with reddish—orange mottling, damp, medium dense; no odor, gravel to 2".	V V V V V V V V V V V V V V V V V V V
0	S-10.5	3 8 10	- 10 -			2
0	S-15.5	17 30 25	- 12 - - 14 - - 16 - - 18 -		Moist, very dense.	V V V V V V V V V V V V V V V V V V V
320	S-20.5	20 28 35	- 20 - - 22 -		Some green mottling.	7
OVER 10,000	S-25.5	15 27 30	- 24 - - 26 - - 28 -	<u>*</u>	Greenishbrown lense; strong product odor.	
278	S-30.5	3 4 7	- 30 - - 32 -	CL	Silty clay, reddish-brown, moist, medium plasticity, stiff; no odor, uniform texture, some fine gravel to 3 cm.	
120	S-35.5	27 50	- 34 - - 36 - - 38 -	GC	Clayey sandy gravel, brown with red and green mottling, moist, medium plasticity, very dense; no odor, gravel to 2".	
			40 -	\	(Section continues downward)	

**Canonie** Environmental

DRAWING NO. 94-223-A9

LOG OF BORING B-3/MW-3 CHEVRON STATION 9-2864 1334 FIRST STREET LIVERMORE, CALIFORNIA

P.I.D.	Sample No.	Blows	Depth	0000	Description	Well Const.
0	S-40.5	18 29 30	- 42 <b>-</b> -	ec ec	Clayey sandy gravei, brown with red and green mottling, wet, medium plasticity, dense; no odor, gravel to 2".	
0	S-45.5	11 12 30	44 <del>-</del> - 46 - - 48 -			
0	S-50.5	11 17 25	- 50 - - 52 -	SW GW	Sand, medium—grained, brown, wet, dense; no odor.  Sandy gravel, brown, wet, dense; no odor, gravel to 2".	
o	S-56	37 50	- 54 - - 56 - - 58 -	CL	Silty clay with minor sand, reddish—brown, damp, medium plasticity, hard; no odor.	
0	S-59.5	22 27 30		CL	Sandy clay, reddish-brown, damp, medium plasticity, hard; no odor.  Total Depth = 60 feet.	
			- 62 - - 64 - - 66 -	1		
			- 68 - - 70 -			-
			72 -			
			- 74 - - 76 -			
			- 78 - - 80 ·			
			- 82 - 84			
			- 86 - 88			
			- 90			

DRAWING NO. 94-223-A10

LOG OF BORING B-3/MW-3 CHEVRON STATION 9-2864 1334 FIRST STREET LIVERMORE, CALIFORNIA

Total depth of boring	41.5 feet			
Diameter of boring:	8 Inches			
Date drilled:	9-28-94			
Drilling Company:	Woodward Drilling			
Driller:	Eric and Mike			
Drilling method:	Hollow-Stem Auger			

Casing diameter:	NA			
Casing material:	NA NA			
Slot size:	NA			
Sand size:	NA			
Screen Interval:	NA			
Field Geologist:	Robin Adair			

P.I.D.	Sample No.	Blows	Depth	USCS Code	Description	Well Const.
197			- 2 -	GM	Silty gravel, brown, damp, loose; no odor, <5-10% fine-grained sand, gravel to 1/2".	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
239	S-6	6 7 9	- 6 - - 8 -	GC	Clayey sandy gravel, brown with some green and red mottling, damp, medium plasticity, medium dense; no odor.	
196	S-10.5	10 12 16	- 10 - - 12 -			
181	S-15.5	21 18 22	- 14 - - 16 -		Moist, dense; gravel up to 2".	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
442	S-20.5	20 25 21				
1533	S-25.5	I 14 23 L 40	- 24 - - 26 - - 28 -		Greenish—brown with red mottling, very dense; slight odor.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
149	S-30.5	4 6 9	- 30 ·	CL	Silty clay with some gravel, reddish—brown, some black mottling, moist, medium plasticity, stiff; no odor, gravel to 1/2".	
259	S-36	17 50	- 34 · - 36 ·	GC	Clayey sandy gravel, brown with red and black mottling, moist, very dense; no odor, gravel to 2".  Silty clay with some gravel, reddish—brown with green mottling, moist,	
366	S-40.5	13 26 36		□ GC	medium plasticity, hard; no odor, gravel to 1/2".  Clayey sandy gravel, brown with red-green mottling, wet, medium plasticity, very dense; no odor, gravel to 2".  Total Depth = 41-1/2 feet.	

DRAWING NO. 94-223-A11

LOG OF BORING B-4 CHEVRON STATION 9-2864 1334 FIRST STREET LIVERMORE, CALIFORNIA

Total depth of boring:	41.5 feet
Diameter of boring:	8 inches
Date drilled:	9-28-94
Drilling Company:	Woodward Drilling
Driller:	Eric and Mike
Drilling method:	Hollow-Stem Auger

Casing diameter:	NA .			
Casing material:	NA			
Slot size:	NA			
Sand size:	NA			
Screen Interval:	NA			
Field Geologist:	Robin Adair			

P.I.D.	Sample No.	Blows	Depth	USCS Code	Description	Well Const.
830				GM	Silty gravel, brown, damp, loose; no odor.	$\triangle \triangle \triangle \triangle$
			- 2 -	ļ		abla  abl
630						$\triangle \triangle \triangle \triangle$
		4	- 4 -	CL	Silty clay with some gravel, dark brown, damp, medium plasticity, stiff; <5-10% fine-grained sand.	
115	S-5.5	3 8	- 6 -	GC	Clayey sandy gravel, reddish—brown, damp, medium dense; no odor; gravel to $1-1/2^{\circ}$ .	$ \begin{picture}(200,0) \put(0.000){\line(0.000){$\circ$}} \put(0.000){\line(0.0$
			- 8 -			$\begin{array}{c c} A & A & A & A \\ A & A & A & A \\ A & A &$
248	S-10.5	21 22 28	- 10 -		Some red and green mottling, moist, dense; gravel to 2".	$ \  \   \   \   \   \   \   \  $
	-	28	- 12 -		7	
}	1		- 14 -			abla  abl
860	S-15.5	24 33 34	- 16 -		Some black mottling, very dense.	$ \begin{picture}(20,0) \put(0,0){\line(1,0){10}} \put(0,$
		34	[ '0 ]			$\nabla \nabla \nabla \nabla \nabla$
		1	- 18 -			
ļ		Į.		ļ		$\nabla \nabla \nabla$
	۵ ۵ ۵ ا	16 30	20 -	1	Greenish—brown with red mottling; gravel to 2".	
622	S-20.5	25	۱ ۵		Greenisti-prown with red monthing, graver to 2	$\triangle \triangle \triangle \triangle$
		1	- 22 -	1		$\triangle \triangle \triangle \triangle$
		Į.	24 -			
OVER		24		ļ		
10,000	S-25.5	18 33	- 26 -	4	Product odor.	$\triangle \triangle \triangle \triangle$
		7 ~				$\triangle \triangle \triangle \triangle$
1		1	28 -	1		$\nabla \nabla \nabla$
		ı				
1610	S-30.5	- 8 10	<b>-</b> 30 -	CL.	Silty clay, reddish-brown, moist, medium plasticity, very stiff; slight odor.	
1010		<b>-</b> ii	] ,,		Sally didy, reduising brown, more present pres	
	1	1	- 32 -	1		$\nabla \nabla \nabla \nabla$
			- 34 •	]		
1			[ \ <sup>*</sup> .			
0VER 10,000	S-36	12 50	- 36	GC	Clayey sandy gravel, reddish-brown, orange mottling, moist, very	$\nabla \nabla \nabla$
1,0,000	3-36	<b>7</b> ~		}	dense; strong odor, gravel to 2".	
1			- 38 -	-1		$\nabla \nabla \nabla \nabla \nabla$
1			1			$\nabla \nabla \nabla$
	1 5	19	- 40	abla	Comp block modeling model to wat	
1450	S-41.5	28 24	1	<u> </u>	Some black mottling, moist to wet.  Total Depth = 41-1/2 feet.	12 22 E

DRAWING NO. 94-223-A12

LOG OF BORING B-5 CHEVRON STATION 9-2864 1334 FIRST STREET LIVERMORE, CALIFORNIA



# **EXPLORATORY BORING LOG**

Field	Location o	of Boring	<b>3</b> :					Project No. 9-2864 Date: 6.10.96 Boring No.		
								Client: CHEVRON PRODUCTS CO.		
								Location: 1334 First Street		
		s	ee Figur	ъ 1				City: Livermore, California Sheet 1		
								Logged By: wtj Driller: V&W of 3		
								Casing Installation data:		
0.495	36.0 - 1		1.0			<u></u>				
	g Method: Diameter:		Hollow Stanch D		<del>-</del>			Top of Box Elevation: Datum:		
11016							0	Water Level		
PiD (ppm)	Blows Pressure (PSI)	Type of Sample	Sample	Depth (ft.)	Sample Interval	Well Detail	Sroup OS)	Time		
ਜ ਕੁ	P. B. F.	Sar 7	N Z	۵۳	S ±	٥٦	Soil Group Symbol (USCS)	Date		
						888 888		SILT, SAND, AND GRAVEL (GC) dark yellowish		
<b> </b>				1			Fill	brown (10YR 3/4), dense, damp, 50% subrounded		
				2				to well rounded gravel, 25% medium sand, 25% silt, FILL.		
				3						
				4						
				5				CLAYEY GRAVEL WITH SAND (GC) dark yellowish		
	12_ 12_	S&H	6.0	6	X		GC	brown (10YR 3/4), dense, damp, 70% subrounded to well rounded gravel, 15% medium sand, 15% clay.		
	18							to well roullded graver, 15% medium sand, 15% clay.		
				7						
				8						
				9						
				10						
	22	S&H	MW-3R	10			GM	SILTY GRAVEL WITH SAND (GM) yellowish brown		
	28 32		11.0	11	X			(10YR 5/4), very dense, damp, 70% subrounded to well rounded gravel, 15% medium sand, 15% silt.		
				12				von roundou gravor, 10/1/ modium odna, 10/10 one.		
		<u> </u>		40						
				13						
				14						
_		2211		15				10.180/5		
	27 29	S&H	MW-3R 16.0	16	X			AS ABOVE		
	33			-						
				17						
				18						
				19						
				20						
Remai	ks:		L	<u>; 20</u>	L	· · · · · · · · · · · · · · · · · · ·				



# **EXPLORATORY BORING LOG**

Field Location of Boring:	Project No. 9-2864 Date: 6.10.96 Boring No.							
	Client:CHEVRON PRODUCTS CO. MW-3R							
	Location: 1334 First Street							
See Figure 1	City: Livermore, California Sheet 2							
	Logged By: wtj Driller: V&VV of 3							
	Casing Installation data:							
	4							
Drilling Method: Hollow Stem Auger								
Hole Diameter: 8-inch	Top of Box Elevation: Datum:							
PID Blows Pressure (PSI) Type of Sample Sample (ft.) Sample (ft.) Sample (ft.) Well Depth (ft.) Well Detail Detail	Water Level Time							
PID (ppm) Blows Pressure (PSI) Type of Sample Sample Number Depth (ft.) Sample Interval Well Detail Detail	Date							
30 SRH MANA/AR								
50 20.5 21 GM	AS ABOVE - COLOR CHANGE TO dark grayish brown (10YR 4/2), moist.							
22								
23 -								
24								
25								
34 S&H	AS ABOVE - very moist to saturated.							
30 MW-3R 26 W								
27								
28								
20								
29 —								
16 S&H 30	OLANEN OBANEL (OO) H							
20 MW-3R 16 31.0 C	CLAYEY GRAVEL (GC) - yellowish brown (10YR 5/4), saturated, dense, 60% fine to medium gravel, 20%							
31.0 31.0	fine to coarse sand, 20% clay.							
32 -								
33								
34								
14 S&H NR 35 GC	AS ABOVE - moist							
18 36 GC	TO UPOAE - HIGHST							
37								
38								
39								
40 = 1								
Remarks:								
NR = No sample recovery								



# **EXPLORATORY BORING LOG**

Field L	ocation o	of Boring	j:					Project No. 9-2864 Date: 6.10.96 Boring No.
•								Client: CHEVRON PRODUCTS CO. MW-3R
							'	Location: 1334 First Street
		See	Figur	e 1				City: Livermore, California Sheet 3
								Logged By: wtj Driller: V&W of 3
								Casing Installation data:
	Method		ollow	Sten	ı Au	ger		
Hole D	iameter:	8-	inch	Ť				Top of Box Elevation: Datum:
a E	ws sure	e of	ple	뜎	Sample Interval	夏雪	roup Sol (SX	Water Level Time
PID (mdd)	Blows Pressure (PSI)	Type of Sample	Sample Number	Depth (ft.)	San	Well Detail	Soil Group Symbol (USCS)	Date
<b> </b>	27	S&H	NR		$\neg$		Ø	
	39			41	$\downarrow$		GC	CLAYEY GRAVEL (GC) - yellowish brown (10YR 5/4), saturated, dense, 60% fine to medium gravel, 20%
	49			42			60	fine to coarse sand, 20% clay.
				43			<del></del>	
				44				
		!		45	\ <u>.                                    </u>			BOTTOM OF BORING AT 43.0 FEET
								6.10.96
				46				
				47			•	
				48				
-			-	49				
				50				
				51				
				52	<b></b>			
				53				
				F.4				
				54				
				55				
				56				
	-			\	<u> </u>			
	-			57				
-				58	<del>                                     </del>			
		,		59			ı	
Remark	s:	N	_	<del>'60-</del>			BOTTOM	OF BORING AT 43.0 FEET

NR - No Recovery

BOTTOM OF BORING AT 43.0 FEET 6.10.96