



**BACE Environmental**

A Division Of

**Brunsing Associates, Inc.**

ALCO  
HAZMAT

94 FEB 25 AM 10:59

February 7, 1994

Project No. 29.11

Ms. Normita Callison  
Pacific Coast Building Products  
4290 Roseville Road  
North Highlands, California 95660

**RE: Vapor Recovery Well Installation  
Pacific Supply Company  
1735 24<sup>th</sup> Street, Oakland, California**

Dear Ms. Callison:

This letter documents the installation of the nine vapor recovery wells (VRW-1 through VRW-9) observed by BACE Environmental, a Division of Brunsing Associates, Inc. (BAI) on behalf of Pacific Supply Company for the site located at 1735 24<sup>th</sup> Street, Oakland, California. This installation was completed as part of the construction of the vapor recovery system installation performed by Remedial Services, International. The vapor recovery wells were installed at the locations specified in BAI's "Vapor Extraction Remedial Design Report and Specifications", dated May 24, 1993.

This report documents the vapor recovery well installation sampling and analytical procedures. From each well one soil sample and one groundwater sample were obtained to document the baseline analytical status of the zone containing hydrocarbons.

### **Vapor Recovery Well Installation**

On August 25 through 27, 1993, BAI supervised the construction of nine vapor recovery wells at the locations shown on Figure 1. Soil borings for the construction of the vapor recovery wells were advanced using a drill rig equipped with 10-inch diameter hollow-stem augers. Soil borings were logged by a qualified geologist according to the Unified Soil Classification System (USCS) and completed boring logs are included in Appendix A.

Samples were collected for chemical analysis in the borings at the depth where first groundwater, occurs at approximately seven feet below existing grade. The soil samples were collected using a split-spoon sampler lined with clean brass liners. The liners containing the soil samples were sealed with aluminum foil, capped,

Ms. Normita Callison  
February 7, 1994  
Page 2

labelled and placed in sealable plastic bags. The soil samples were placed in an insulated container with blue ice for transport under chain-of-custody to the analytical laboratory.

Vapor recovery wells VRW-1 through VRW-9 were constructed using four-inch diameter Schedule 40 PVC joined by flush threads with 0.020-inch slotted screen. The screen in each well extended from a depth of 4 to 18 feet. A filter pack of Lonestar #3 sand was placed around the screens and to a minimum height of one half foot above the top of the screen interval. Bentonite pellets were placed above the sand and were hydrated to complete a transition seal of a minimum of one half foot. The borings were then sealed using a bentonite grout (Volclay™). The length of the bentonite seal in each well was three feet. The wells were set within a two-foot diameter flush mounted, utility box that was stabilized with cement. The well completion details are included with the boring logs in Appendix A.

The hollow-stem augers and sampling equipment were steam-cleaned before use at each location. Drill cuttings were placed in sealed 55-gallon containers presently stored at the site.

### Well Development and Sampling

On November 2 and 3, 1993, the nine vapor recovery wells were developed by the use of a surge block and bailer. The wells were agitated for a minimum of 10 minutes per well. A minimum of 10 casing volumes of water was bailed from each well. The purge water was monitored for changes in temperature, conductivity and pH.

A minimum of 24 hours after each well was developed, the groundwater in each vapor recovery well was sampled. Prior to purging, the depth to groundwater was measured and the well was tested for the presence of free product by using a water/product interface probe. No product was observed in any of the vapor recovery wells. The wells were purged for a minimum of three casing volumes of water until pH, conductivity and temperature measurements stabilized. Groundwater samples were collected using disposable polyethylene bailers. The groundwater samples were placed into laboratory supplied sample vials. The water samples were placed in an insulated container with blue ice for transport under chain-of-custody to the analytical laboratory.

All purge water was added to the storage tank for later treatment by the on-site treatment system.



### Chemical Analyses

The soil and groundwater samples were transported under chain-of-custody procedures to BACE Analytical and Field Services (BAFS), a California certified analytical laboratory. The Chain-of-Custody forms are attached to the analytical data reports which are included in Appendix B.

Soil and groundwater samples were analyzed by BAFS for the following:

<u>Analysis</u>	<u>Test Method</u>
Total Petroleum Hydrocarbons (TPH) as gasoline	EPA 5030/GC FID
Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)	EPA 5030/8020

In addition, the groundwater samples were analyzed by NET Pacific for:

Organic Lead	SWRCB LUFT Method
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### Analytical Results

Summaries of the analytical test results are contained in Tables 1 and 2. The reported data includes the groundwater results from the quarterly groundwater monitoring which was also completed on November 3 and 4, 1993, and prepared under separate cover, dated January 26, 1994.

Reported concentrations of TPH as gasoline in the soil samples taken near the groundwater interface at an approximate depth of 7.0 to 7.5 feet ranged from 1.5 to 3,800 milligrams per kilogram (mg/kg). These soil concentrations of TPH as gasoline are shown on Figure 2. Concentrations of BTEX were reported in all samples where TPH as gasoline concentrations were reported.

Reported concentrations of TPH as gasoline in the groundwater samples collected in the vapor recovery wells ranged from 0.10 milligrams per liter (mg/L) to 9.0 mg/L. Reported concentrations of TPH as gasoline in the groundwater samples collected in the monitoring wells ranged from non-detectable to 2.5 mg/L. The groundwater concentrations of TPH as gasoline are shown on Figure 3. Concentrations of BTEX

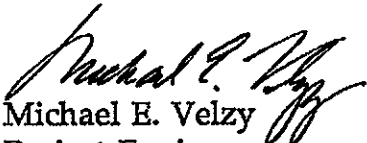



Ms. Normita Callison  
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were reported in all samples except one where TPH as gasoline concentrations were reported. No organic lead was reported at or above the reporting limit.

If you have any questions, please call Michael Velzy at (415) 364-9030.

Sincerely,

  
Michael E. Velzy  
Project Engineer

  
Thomas P. Brunsing, P.E., Ph.D, R.E.A.  
Principal Engineer



Attachments:

Table 1	Soil Analytical Data Summary
Table 2	Groundwater Analytical Data Summary
Figure 1	Site Plan
Figure 2	Concentrations of TPH as Gasoline in Soil
Figure 3	Concentrations of TPH as Gasoline in Groundwater
Appendix A	Boring Logs
Appendix B	Analytical Data Reports

cc: Jennifer Eberle, Alameda County Health Agency



TABLE 1  
SOIL ANALYTICAL DATA SUMMARY  
PACIFIC SUPPLY COMPANY

Sampling Date	Descriptor	TPH (gasoline) mg/kg	Benzene µg/kg	Toluene µg/kg	Ethylbenzene µg/kg	Xylenes µg/kg
8/25/93	VRW-1 @ 7.5'	1.5	14	ND	ND	ND
8/26/93	VRW-2 @ 7.0'	27	110	200	46	190
8/25/93	VRW-3 @ 7.5'	15	700	90	16	60
8/26/93	VRW-4 @ 7.0'	5.5	410	120	110	490
8/27/93	VRW-5 @ 7.5'	700	7300	3000	5300	3600
8/26/93	VRW-6 @ 7.5'	3800	41000	130000	53000	270000
8/27/93	VRW-7 @ 7.0'	1100	1300	2900	2600	6000
8/26/93	VRW-8 @ 7.5'	30	220	120	400	670
8/27/93	VRW-9 @ 7.0'	370	2300	2200	620	2300

Notes: ND = Nondetectable at laboratory reporting limit.

µg/kg = micrograms per kilogram

mg/kg = miligrams per kilogram



TABLE 2  
GROUNDWATER ANALYTICAL DATA SUMMARY  
PACIFIC SUPPLY COMPANY

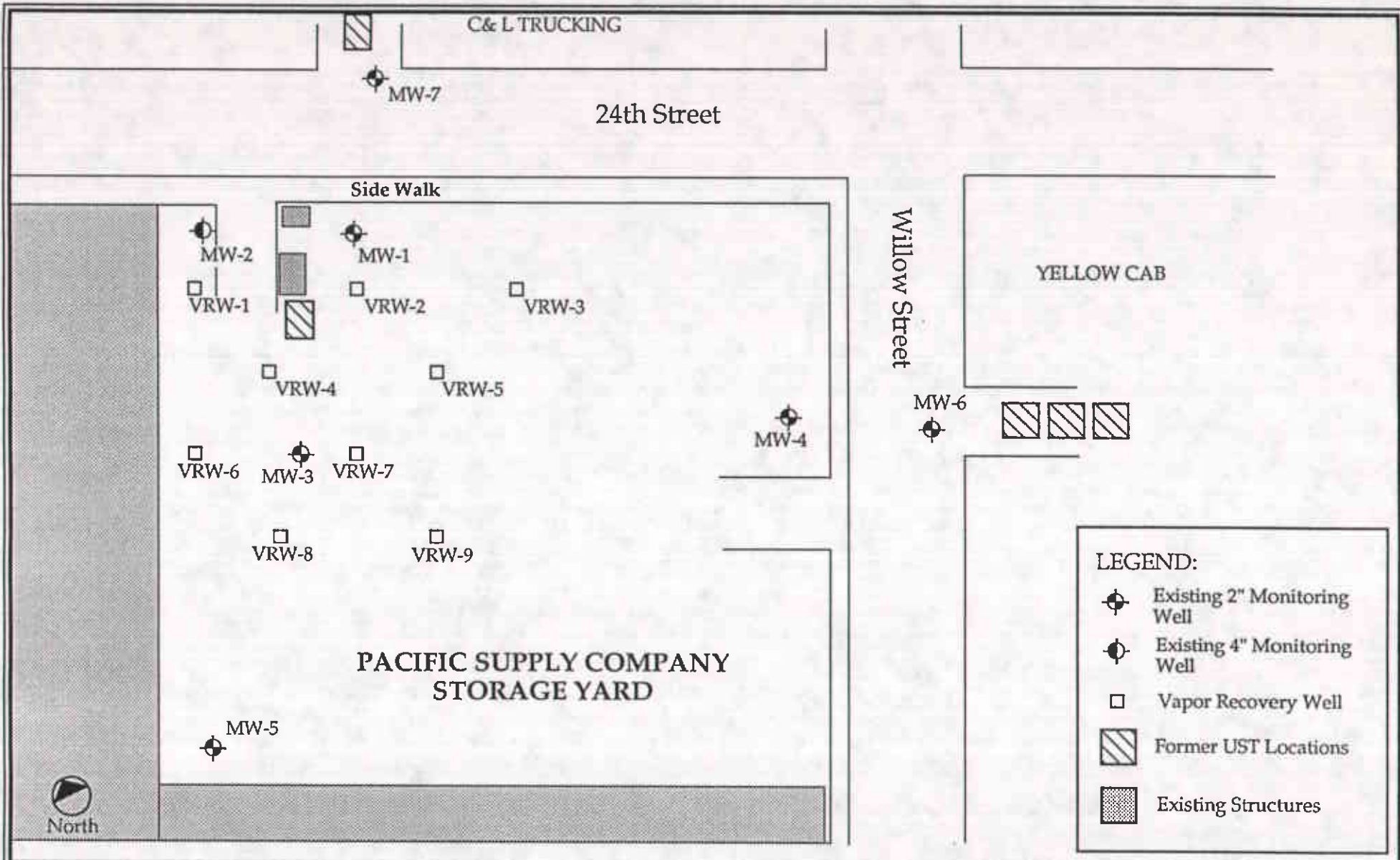
Sampling Date	Descriptor	Depth to Water ft	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Organic Lead mg/L
11/3/93	MW-1	7.8	ND	ND	ND	ND	ND	ND
11/4/93	MW-2	7.2	2.5	230.0	7.8	2.1	9.9	ND
11/4/93	MW-3	8.2	0.07	0.6	0.5	ND	ND	ND
11/4/93	MW-4	8.1	0.08	1.3	1.6	ND	ND	ND
11/4/93	MW-5	7.8	ND	ND	ND	ND	ND	ND
11/4/93	MW-6	5.3	1.5	ND	1.2	ND	0.7	ND
11/4/93	MW-7	9.8	ND	ND	ND	ND	ND	ND
11/4/93	VRW-1	8.3	3.0	1600.0	19.0	1.1	16	ND
11/4/93	VRW-2	7.4	7.2	3300.0	600.0	2.4	870	ND
11/4/93	VRW-3	7.9	5.7	120.0	41.0	1.1	380	ND
11/4/93	VRW-4	7.7	9.0	4400.0	900.0	5.4	990	ND
11/4/93	VRW-5	8.0	0.90	68.0	33.0	2.5	32	ND
11/4/93	VRW-6	7.8	0.41	6.6	1.0	ND	31	ND
11/4/93	VRW-7	8.1	0.10	ND	ND	ND	ND	ND
11/4/93	VRW-8	8.0	5.9	460.0	54.0	ND	53	ND
11/4/93	VRW-9	8.2	0.47	36.0	18.0	ND	1.0	ND

Notes: ND = Nondetectable at laboratory reporting limit.






µg/kg = micrograms per kilogram

mg/kg = milligrams per kilogram





**LEGEND:**

-  Existing 2" Monitoring Well
-  Existing 4" Monitoring Well
-  Vapor Recovery Well
-  Former UST Locations
-  Existing Structures

PROJECT NUMBER: 29.9  
 PACIFIC SUPPLY COMPANY  
 OAKLAND, CALIFORNIA

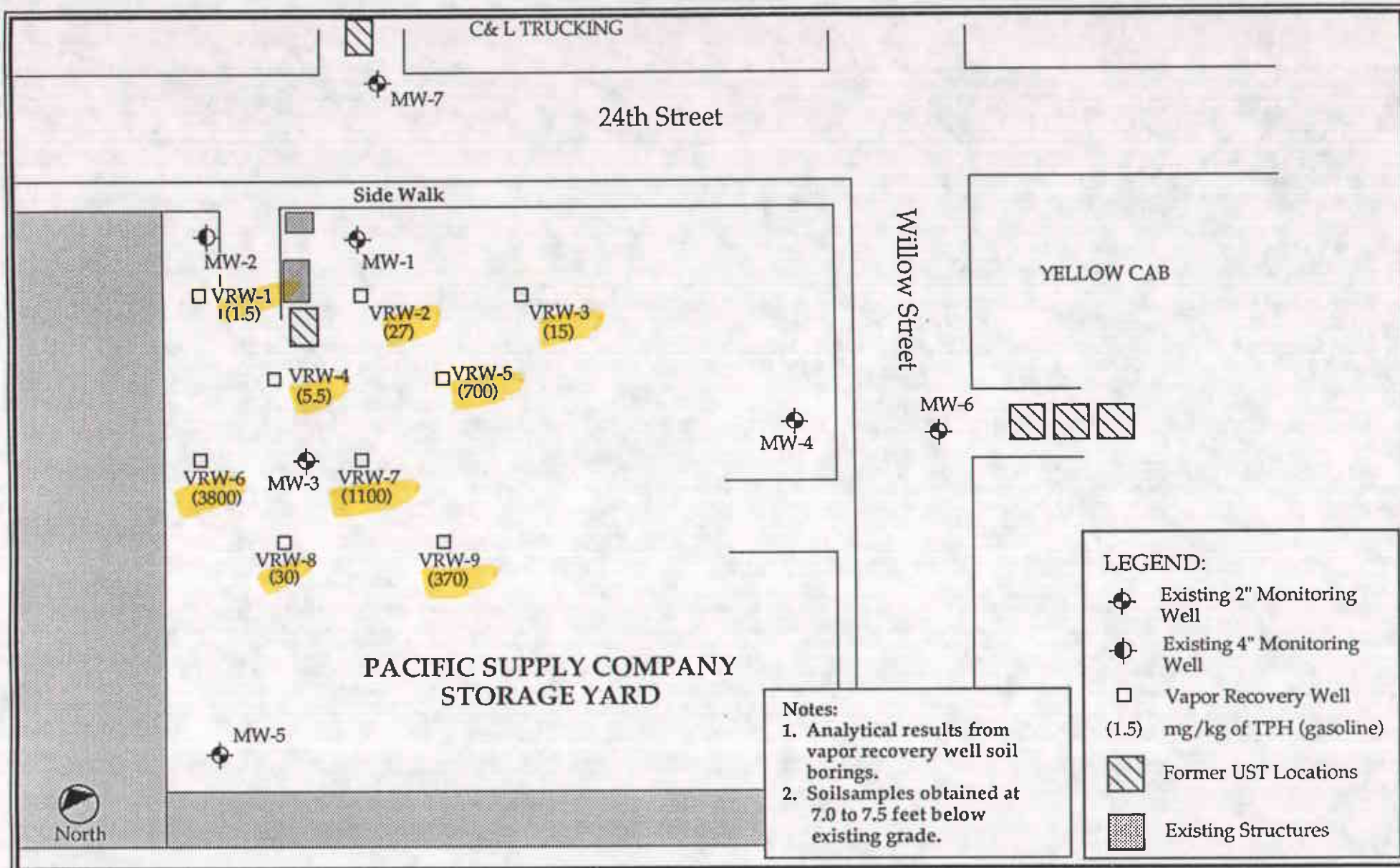
DRAWING NUMBER: 29.9-01

DRAWN BY:	SMY	12/13/93
APPROVED BY:	JB	2/7/94

SCALE: 1 Inch = 50 Feet

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*A Division of*  
**Brunsing Associates, Inc.**

**FIGURE 1**  
 SITE PLAN  
 Pacific Supply Company  
 1735 24th Street  
 Oakland, California



PROJECT NUMBER: 29.9  
 PACIFIC SUPPLY COMPANY  
 OAKLAND, CALIFORNIA

DRAWING NUMBER: 29.9-01

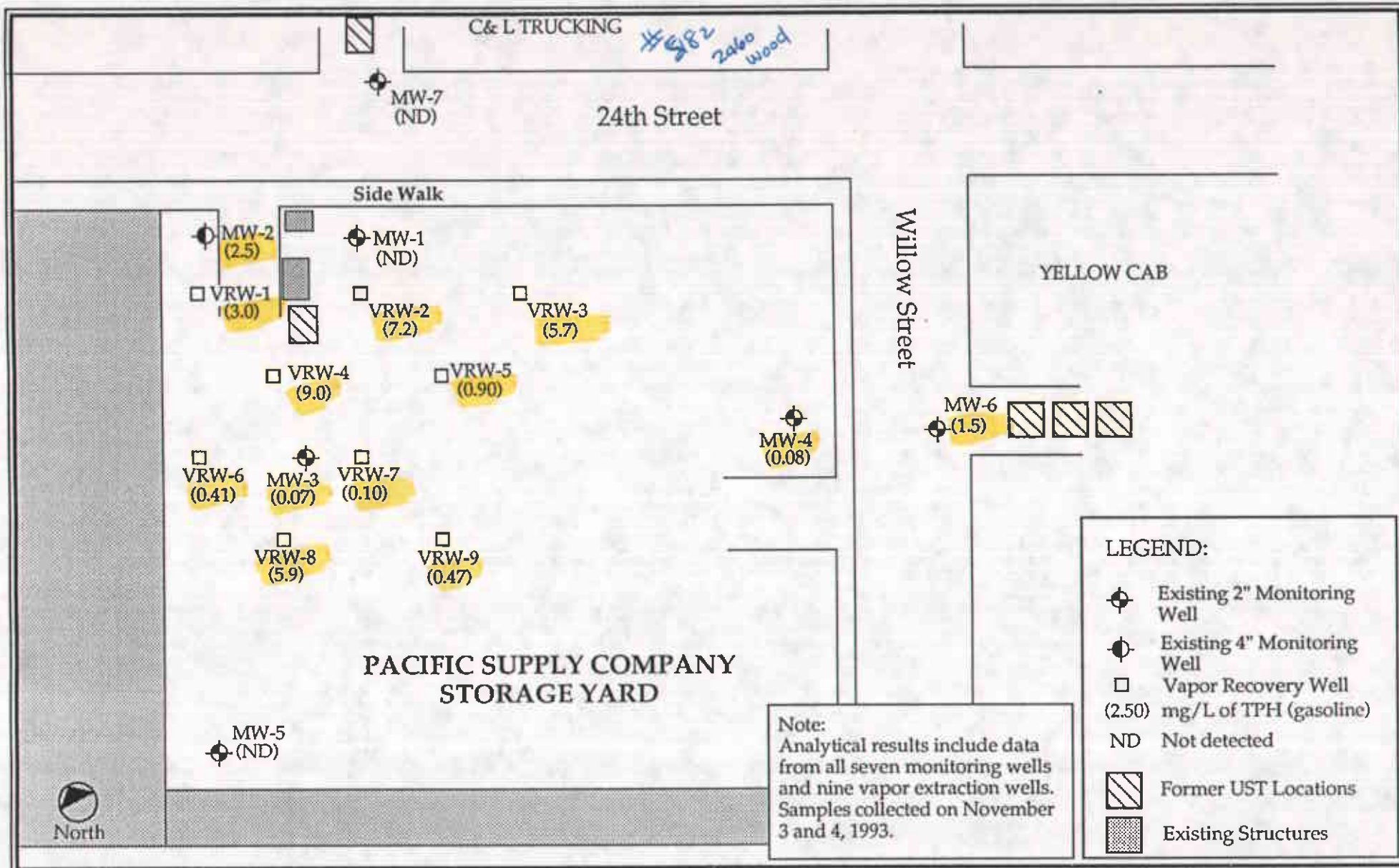
DRAWN BY:	SMY	12/13/93
APPROVED BY:	SB	2/7/94

SCALE: 1 Inch = 50 Feet

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**Brunsing Associates, Inc.**

**FIGURE 2**  
 CONCENTRATIONS OF TPH AS  
 GASOLINE IN SOIL  
 Pacific Supply Company  
 1735 24th Street  
 Oakland, California





PROJECT NUMBER: 29.9		
PACIFIC SUPPLY COMPANY		
OAKLAND, CALIFORNIA		
DRAWING NUMBER: 29.9-01		
DRAWN BY:	SMY	12/13/93
APPROVED BY:	JCS	2/2/94
SCALE: 1 Inch = 50 Feet		

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**Brunsing Associates, Inc.**

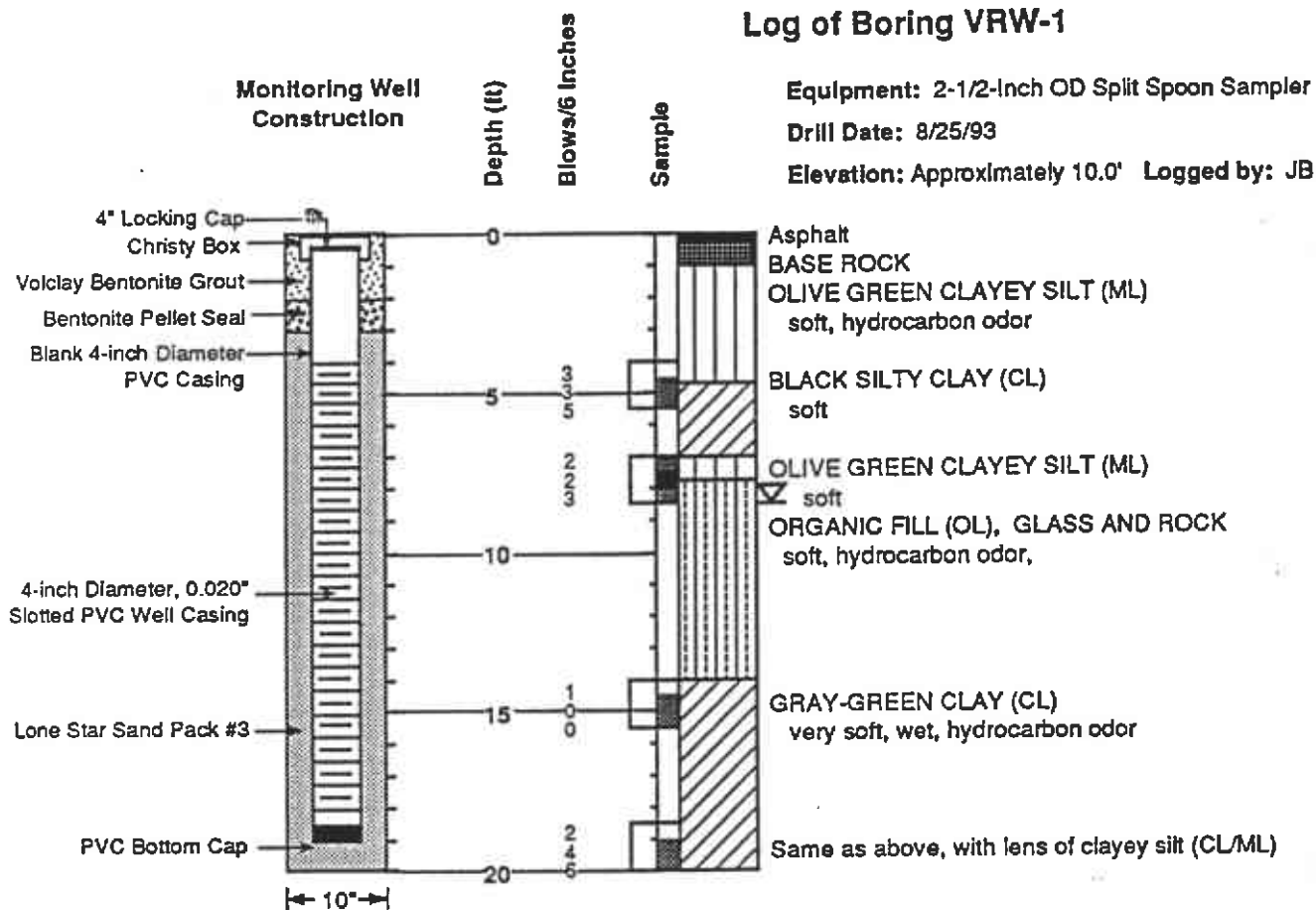
**FIGURE 3**  
**CONCENTRATIONS OF TPH AS GASOLINE IN GROUNDWATER**  
 Pacific Supply Company  
 1735 24th Street  
 Oakland, California

# Appendix A

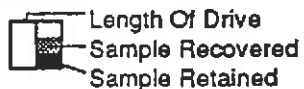
## Boring Logs



## Log of Boring VRW-1



**LEGEND:**

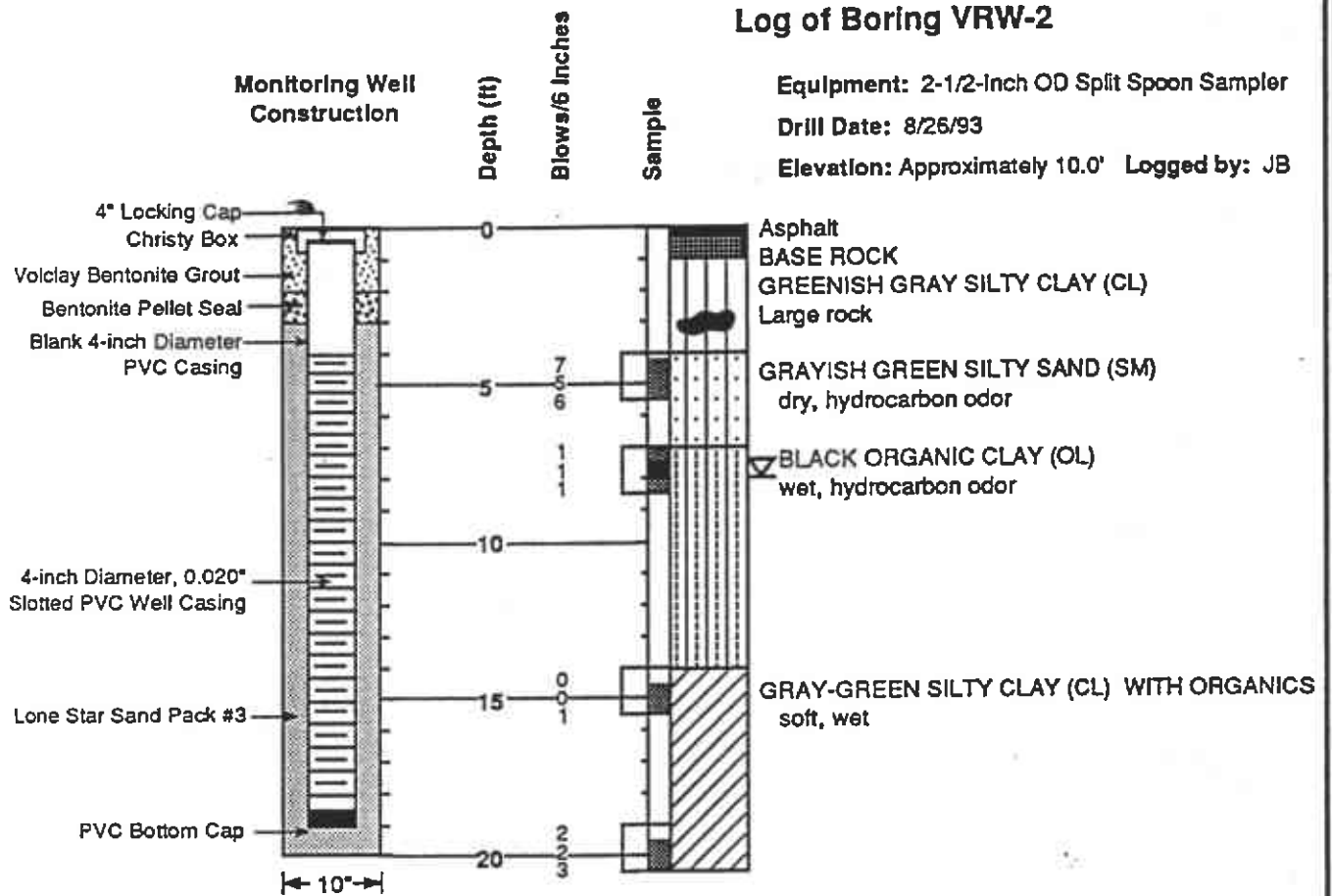


PROJECT NO.: 29.11		
DRAWN BY:	DD	11/15/93
APPROVED BY:	JB	12/14/93

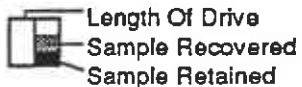
**BACE Environmental**  
*A Division Of*  
**Brunsing Associates, Inc.**

**PLATE 1**  
**LOG AND WELL**  
**CONSTRUCTION DETAILS, VRW-1**  
Pacific Supply  
1735 24th Street  
Oakland, California

## Log of Boring VRW-2



**LEGEND:**

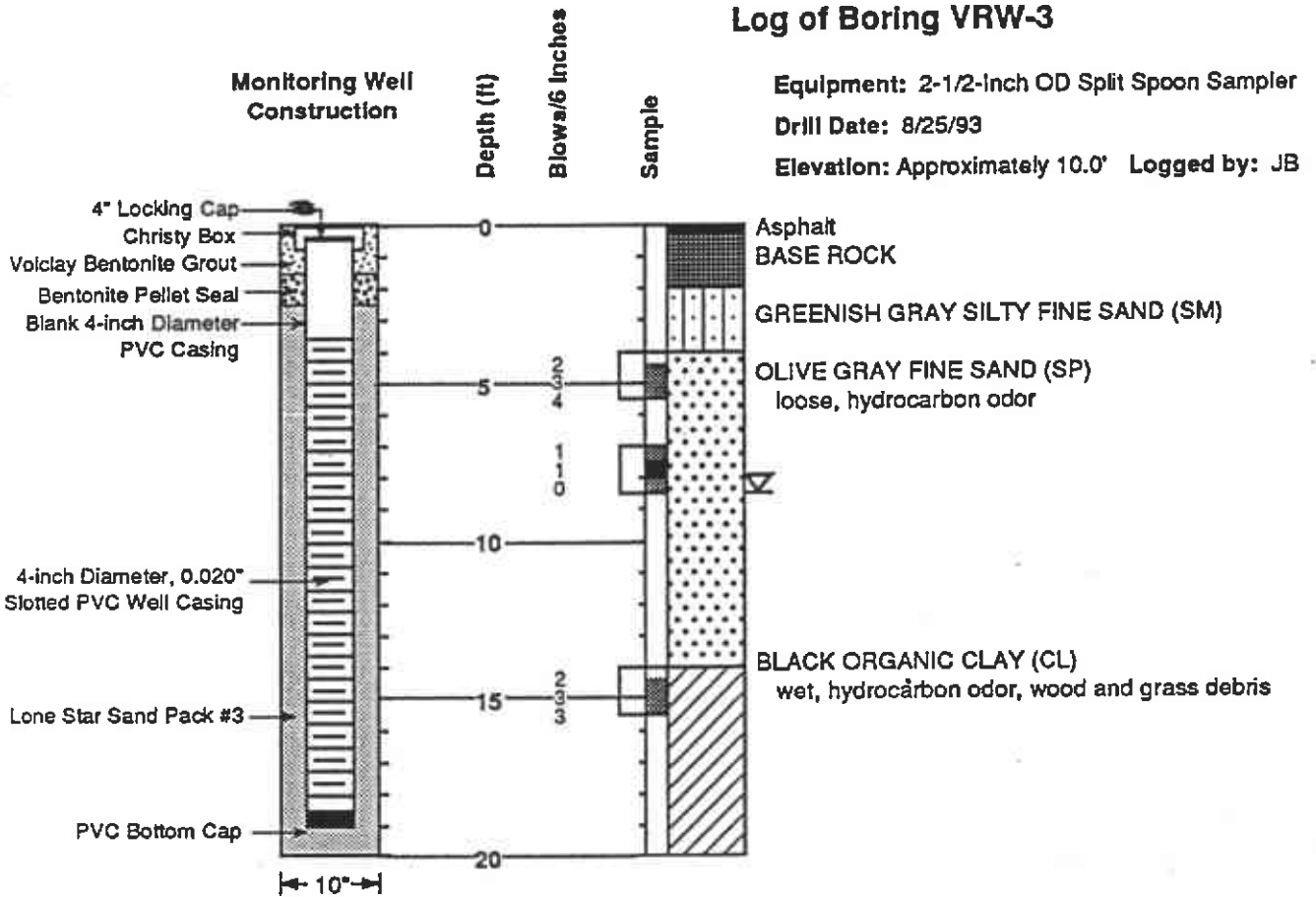


PROJECT NO.: 29.11		
DRAWN BY:	DD	11/15/93
APPROVED BY:	JB	12/1/93

**BACE Environmental**  
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**Brunsing Associates, Inc.**

**PLATE 2**  
**LOG AND WELL**  
**CONSTRUCTION DETAILS, VRW-2**  
 Pacific Supply  
 1735 24th Street  
 Oakland, California

## Log of Boring VRW-3



### LEGEND:

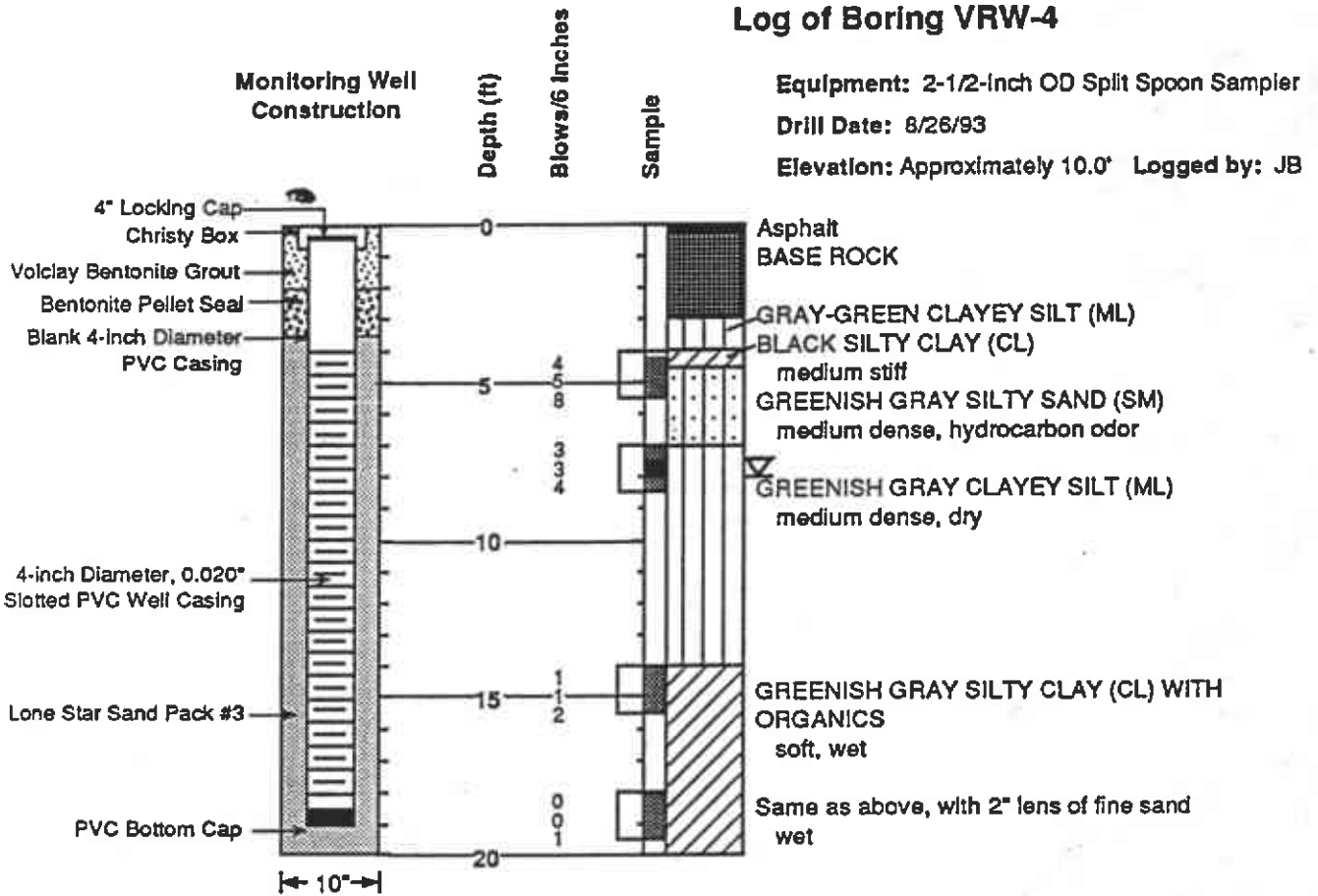


PROJECT NO.: 29.11		
DRAWN BY:	DD	11/15/93
APPROVED BY:	JB	12/14/93

**BACE Environmental**  
*A Division Of*  
**Brunsing Associates, Inc.**

**PLATE 3**  
**LOG AND WELL**  
**CONSTRUCTION DETAILS, VRW-3**  
 Pacific Supply  
 1735 24th Street  
 Oakland, California

## Log of Boring VRW-4

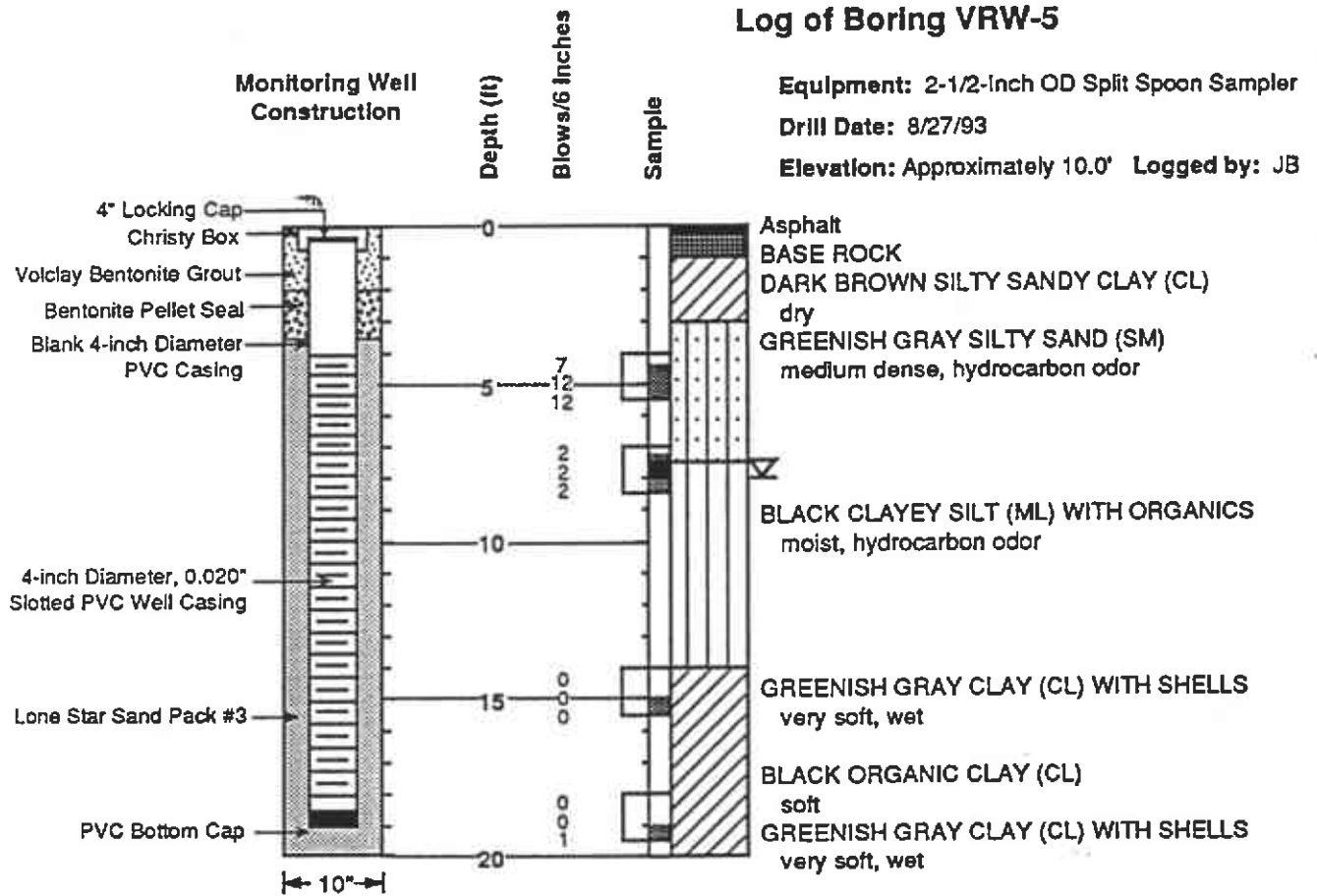


**LEGEND:**

- Length Of Drive
- Sample Recovered
- Sample Retained

PROJECT NO.: 29.11			<b>BACE Environmental</b> <i>A Division Of</i> <b>Brunsing Associates, Inc.</b>	<b>PLATE 4</b> <b>LOG AND WELL</b> <b>CONSTRUCTION DETAILS, VRW-4</b> Pacific Supply 1735 24th Street Oakland, California
DRAWN BY:	DD	11/15/93		
APPROVED BY:	JB	12/14/93		

## Log of Boring VRW-5



**LEGEND:**

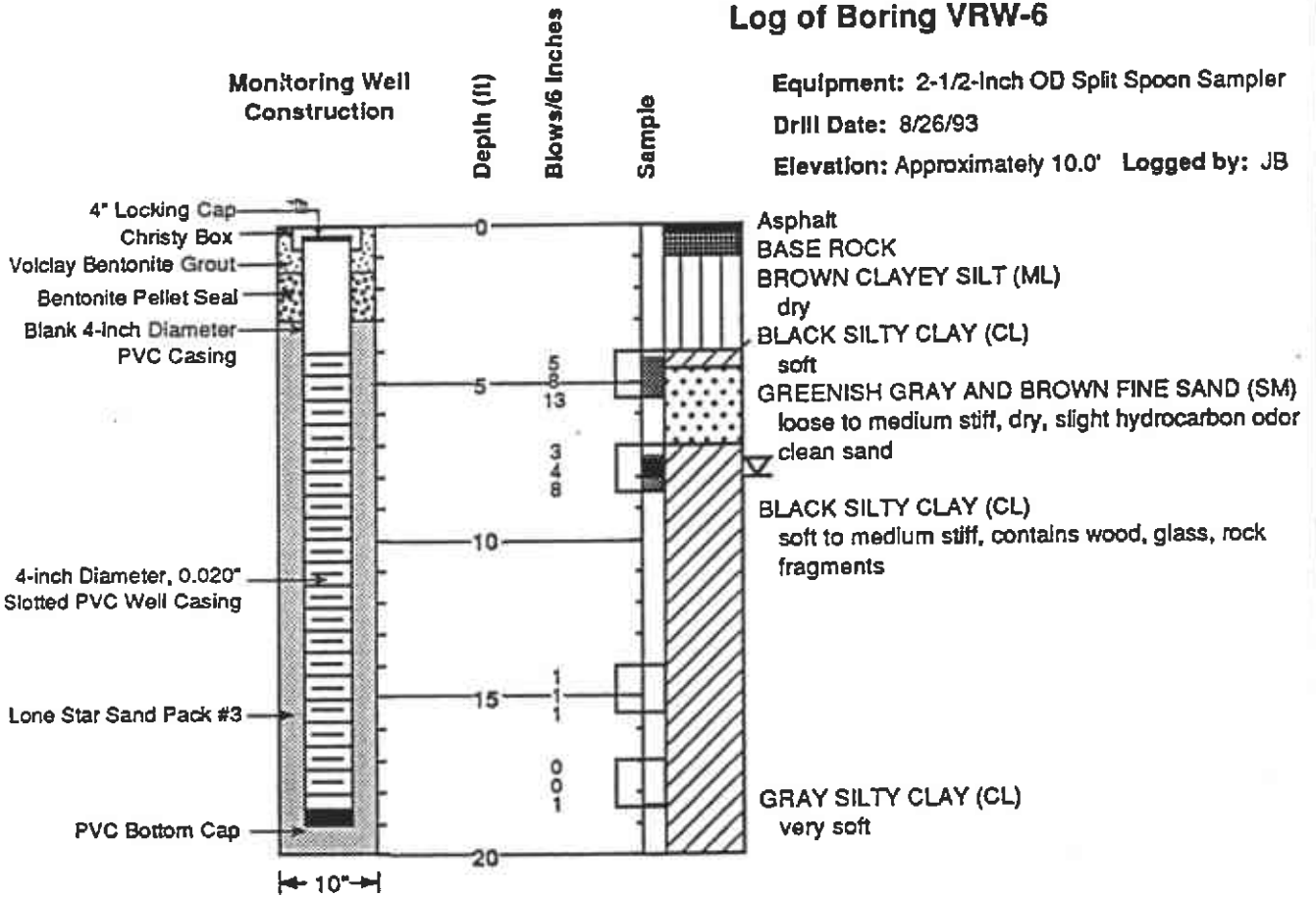
- Length Of Drive
- Sample Recovered
- Sample Retained

PROJECT NO.: 29.11		
DRAWN BY:	DD	11/15/93
APPROVED BY:	JB	12/17/93

**BACE Environmental**  
*A Division Of*  
**Brunsing Associates, Inc.**

**PLATE 5**  
**LOG AND WELL**  
**CONSTRUCTION DETAILS, VRW-5**  
 Pacific Supply  
 1735 24th Street  
 Oakland, California

## Log of Boring VRW-6



**LEGEND:**



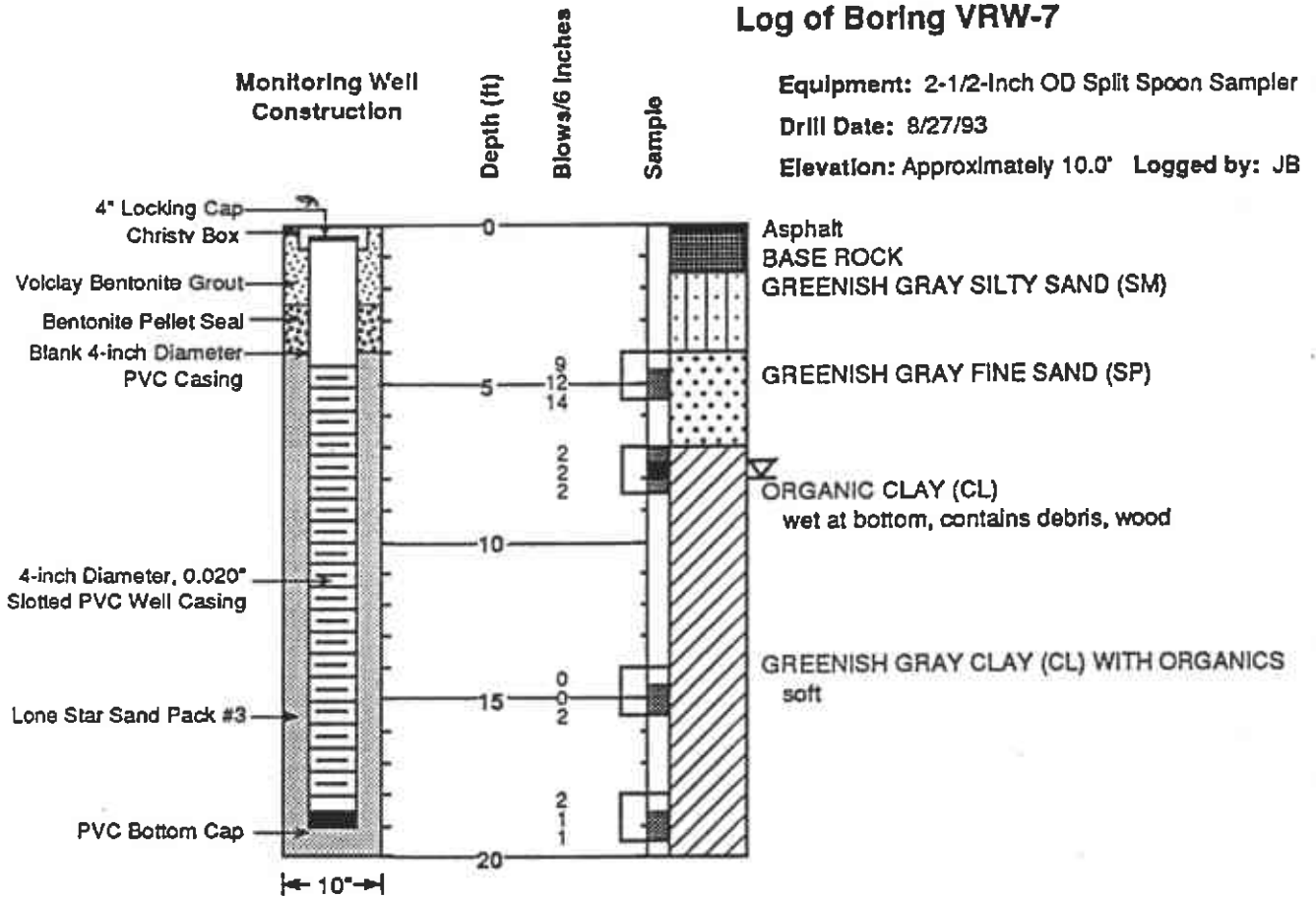
PROJECT NO.: 29.11		
DRAWN BY:	DD	11/15/93
APPROVED BY:	JB	12/14/93

**BACE Environmental**  
*A Division Of*  
**Brunsing Associates, Inc.**

**PLATE 6**  
**LOG AND WELL**  
**CONSTRUCTION DETAILS, VRW-6**  
Pacific Supply  
1735 24th Street  
Oakland, California



## Log of Boring VRW-7



### LEGEND:

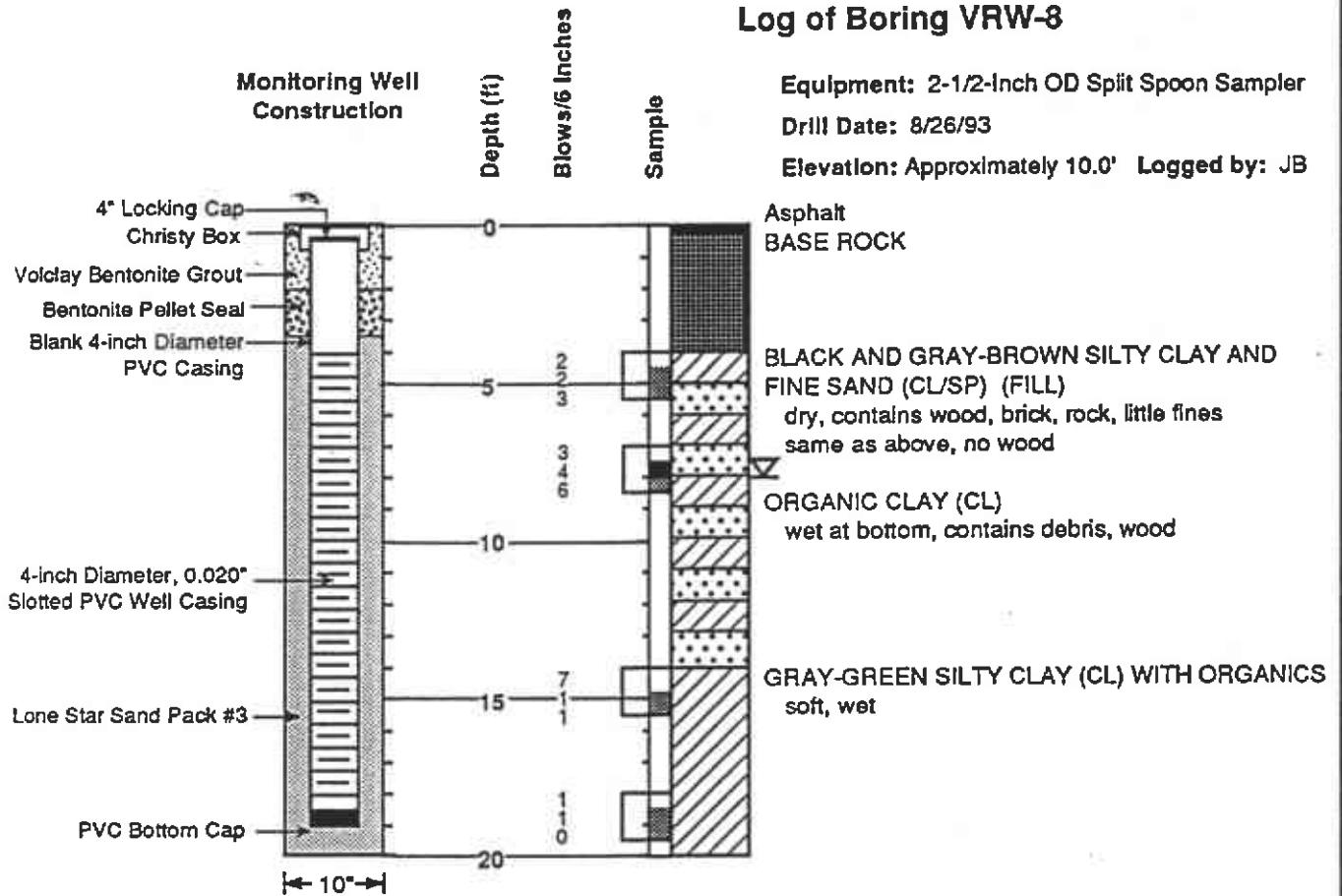


PROJECT NO.: 29.11		
DRAWN BY:	DD	11/15/93
APPROVED BY:	JB	12/14/93

**BACE Environmental**  
*A Division Of*  
**Brunsing Associates, Inc.**

**PLATE 7**  
**LOG AND WELL**  
**CONSTRUCTION DETAILS, VRW-7**  
 Pacific Supply  
 1735 24th Street  
 Oakland, California

## Log of Boring VRW-8

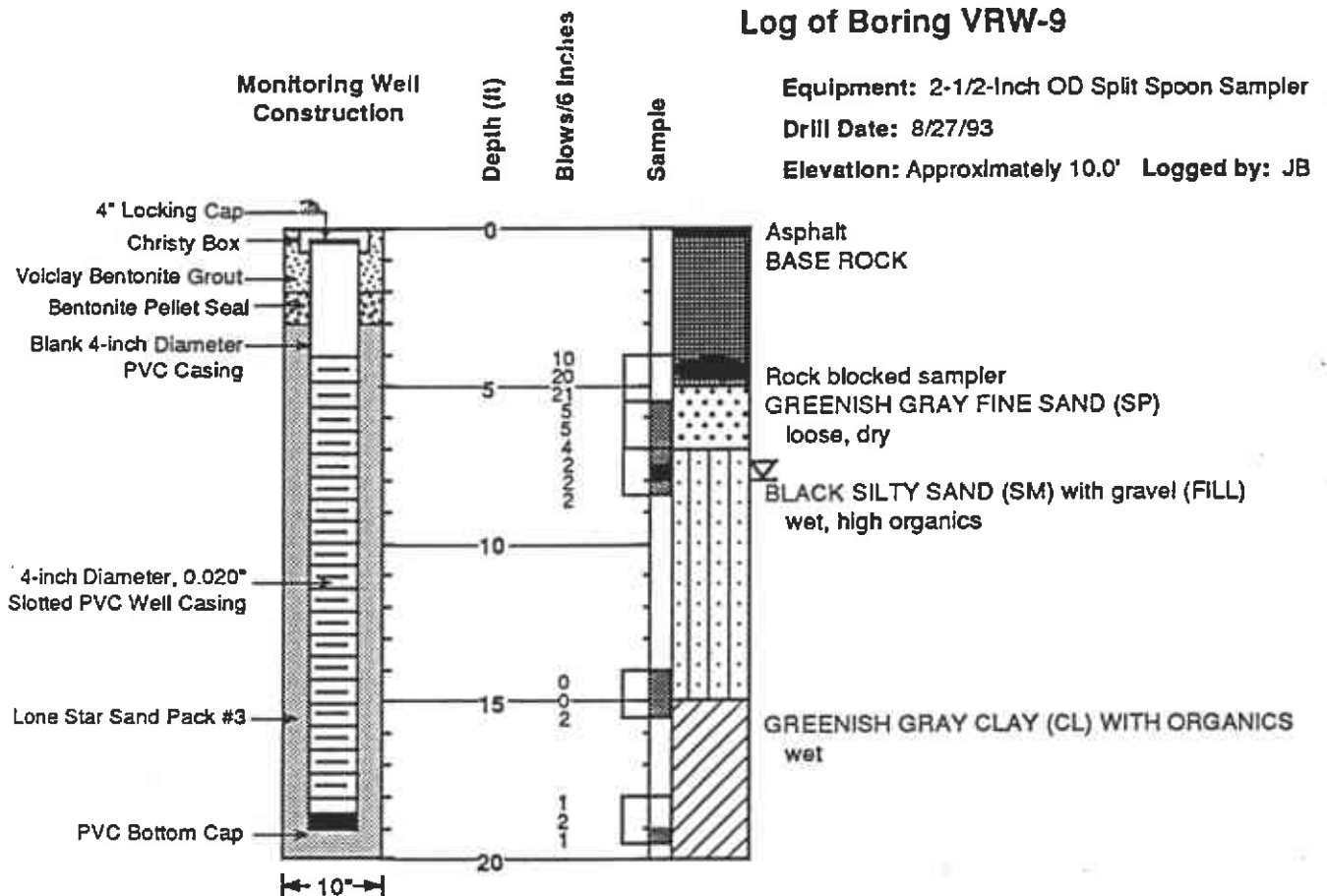


**LEGEND:**



PROJECT NO.: 29.11			<b>BACE Environmental</b> <i>A Division Of</i> <b>Brunsing Associates, Inc.</b>	<b>PLATE 8</b> <b>LOG AND WELL</b> <b>CONSTRUCTION DETAILS, VRW-8</b> Pacific Supply 1735 24th Street Oakland, California
DRAWN BY:	DD	11/15/93		
APPROVED BY:	JB	12/14/93		

## Log of Boring VRW-9



**LEGEND:**

- Length Of Drive
- Sample Recovered
- Sample Retained

PROJECT NO.: 29.11		
DRAWN BY:	DD	11/15/93
APPROVED BY:	JB	12/14/93

**BACE Environmental**  
A Division Of  
**Brunsing Associates, Inc.**

**PLATE 9**  
**LOG AND WELL**  
**CONSTRUCTION DETAILS, VRW-9**  
Pacific Supply  
1735 24th Street  
Oakland, California

**Appendix B**  
Analytical Data Reports





BACE Analytical & Field Services, Inc.

P. O. Box 838, Windsor, CA 95492  
707-838-8338 FAX 707-838-4420

September 13, 1993

Log No: 1834

BACE Environmental  
*a division of*  
Brunsing Associates, Inc.  
1735 E. Bayshore Road, Suite 2A  
Redwood City, California 94063

ATTN: Joel Bruxvoort

RE: Results of the analyses of soil samples obtained for project number 29.11 on  
August 25, 1993.

Dear Mr. Bruxvoort:

This letter serves to confirm the analytical results previously communicated to you.  
Should any questions arise concerning procedure or results, please feel free to  
contact us.

Sincerely,

William G. Rotz  
Director, Mobile Analytical Services

Tami Hucke Norgrove  
Laboratory Manager

Client: BACE Environmental  
Client Contact: Joel Bruxvoort

Page: 1 of 5

Sample Date: 8/25/93  
Analysis Date: 9/7/93 & 9/9/93

BASF Log No: 1834

METHOD: EPA 5030/8020

Matrix: Soil

Results -  $\mu\text{g}/\text{kg}$

Parameter	Reporting Limit $\mu\text{g}/\text{kg}$	Lab No:	1834-1	1834-2
		Descriptor:	(VRW-1 @ 7.5')	(VRW-3 @ 7.5')
Benzene	5.0		14	700
Toluene	5.0		ND	90
Ethylbenzene	5.0		ND	16
Xylenes (total)	5.0		ND	60
Dilution Factor:	1			

METHOD: 5030/GC FID

Results -  $\text{mg}/\text{kg}$

Parameter	Reporting Limit $\text{mg}/\text{kg}$	Lab No:	1834-1	1834-2
		Descriptor:	(VRW-1 @ 7.5')	(VRW-3 @ 7.5')
TPH - gasoline	1.0		1.5	15
Dilution Factor:	1			

NOTE: ND = not detected.  
NR = not requested.

BACE Analytical  
& Field Services, Inc.



Client: BACE Environmental  
Client Contact: Joel Bruxvoort

Page: 2 of 5

Sample Date: 8/25/93  
Analysis Date: 9/7/93 & 9/9/93

BAFS Log No: 1834

METHOD: EPA 5030/8020

Matrix: Soil

Results -  $\mu\text{g}/\text{kg}$

Parameter	Reporting Limit $\mu\text{g}/\text{kg}$	Lab No:	1834-3	1834-4
		Descriptor:	(VRW-2 @ 7.0')	(VRW-4 @ 7.0')
Benzene	5.0		110	410
Toluene	5.0		200	120
Ethylbenzene	5.0		46	110
Xylenes (total)	5.0		190	490
Dilution Factor:	1			

METHOD: 5030/GC FID

Results -  $\text{mg}/\text{kg}$

Parameter	Reporting Limit $\text{mg}/\text{kg}$	Lab No:	1834-3	1834-4
		Descriptor:	(VRW-2 @ 7.0')	(VRW-4 @ 7.0')
TPH - gasoline	1.0		27	5.5
Dilution Factor:	1			

NOTE: ND = not detected.  
NR = not requested.

BACE Analytical  
& Field Services, Inc.



Client: BACE Environmental  
Client Contact: Joel Bruxvoort

Sample Date: 8/25/93  
Analysis Date: 9/7/93 & 9/9/93

BAFS Log No: 1834

METHOD: EPA 5030/8020

Matrix: Soil

Results -  $\mu\text{g}/\text{kg}$

Parameter	Reporting Limit $\mu\text{g}/\text{kg}$	Lab No:	1834-5	1834-6
		Descriptor:	(VRW-6 @ 7.5')	(VRW-8 @ 7.5')
Benzene	5.0		41000	220
Toluene	5.0		130000	120
Ethylbenzene	5.0		53000	400
Xylenes (total)	5.0		270000	670
Dilution Factor:			400	1

METHOD: 5030/GC FID

Results -  $\text{mg}/\text{kg}$

Parameter	Reporting Limit $\text{mg}/\text{kg}$	Lab No:	1834-5	1834-6
		Descriptor:	(VRW-6 @ 7.5')	(VRW-8 @ 7.5')
TPH - gasoline	1.0		3800 ✓	30
Dilution Factor:			200	1

NOTE: ND = not detected.  
NR = not requested.





Client: BACE Environmental  
Client Contact: Joel Bruxvoort

Page: 4 of 5

Sample Date: 8/25/93  
Analysis Date: 9/7/93 & 9/9/93

BAFS Log No: 1834

METHOD: EPA 5030/8020

Matrix: Soil

Results -  $\mu\text{g}/\text{kg}$

Parameter	Reporting Limit $\mu\text{g}/\text{kg}$	Lab No:	1834-7	1834-8
		Descriptor:	(VRW-5 @ 7.5')	(VRW-7 @ 7.0')
Benzene	5.0		7300	1300
Toluene	5.0		3000	2900
Ethylbenzene	5.0		5300	2600
Xylenes (total)	5.0		3600	6000
Dilution Factor:			200	250

METHOD: 5030/GC FID

Results -  $\text{mg}/\text{kg}$

Parameter	Reporting Limit $\text{mg}/\text{kg}$	Lab No:	1834-7	1834-8
		Descriptor:	(VRW-5 @ 7.5')	(VRW-7 @ 7.0')
TPH - gasoline	1.0		700	1100
Dilution Factor:			200	250

NOTE: ND = not detected.  
NR = not requested.

BACE Analytical  
& Field Services, Inc.



Client: BACE Environmental  
Client Contact: Joel Bruxvoort

Page: 5 of 5

Sample Date: 8/25/93  
Analysis Date: 9/7/93 & 9/9/93

BAFS Log No: 1834

METHOD: EPA 5030/8020

Matrix: Soil

Results -  $\mu\text{g}/\text{kg}$

Parameter	Reporting Limit $\mu\text{g}/\text{kg}$	Lab No: Descriptor:	1834-9 (VRW-9 @ 7.0')
Benzene	5.0		2300
Toluene	5.0		2200
Ethylbenzene	5.0		620
Xylenes (total)	5.0		2300
Dilution Factor:			200

METHOD: 5030/GC FID

Results -  $\text{mg}/\text{kg}$

Parameter	Reporting Limit $\text{mg}/\text{kg}$	Lab No: Descriptor:	1834-9 (VRW-9 @ 7.0')
TPH - gasoline	1.0		370
Dilution Factor:			200

NOTE: ND = not detected.  
NR = not requested.

BACE Analytical  
& Field Services, Inc.



**SUMMARY OF  
LABORATORY RESULTS \***

**Pacific Supply -- Project No. 29.11**

Sampling Date	Lab Number	Descriptor	Benzene µg/kg	Toluene µg/kg	Ethylbenzene µg/kg	Xylenes µg/kg	TPH (gasoline) mg/kg
8/25/93	1834-1	VRW-1 @ 7.5'	14	ND	ND	ND	1.5
8/25/93	1834-2	VRW-3 @ 7.5'	700	90	16	60	15
8/25/93	1834-3	VRW-2 @ 7.0'	110	200	46	190	27
8/25/93	1834-4	VRW-4 @ 7.0'	410	120	110	490	5.5
8/25/93	1834-5	VRW-6 @ 7.5'	41000	130000	53000	270000	3800
8/25/93	1834-6	VRW-8 @ 7.5'	220	120	400	670	30
8/25/93	1834-7	VRW-5 @ 7.5'	7300	3000	5300	3600	700
8/25/93	1834-8	VRW-7 @ 7.0'	1300	2900	2600	6000	1100
8/25/93	1834-9	VRW-9 @ 7.0'	2300	2200	620	2300	370

\* See original laboratory report dated 9/13/93 for complete results.

## QUALITY CONTROL SUMMARY

Client: BACE Environmental  
Client Contact: Joel Bruxvoort  
Sample Date: 8/25/93  
Analysis Date: 9/7/93 & 9/9/93

BAFS Log No.: 1834


Matrix: Soil

Parameter	% RECOVERY				
	CCV%*	Blank	Spike	Spike Dup	RPD
Benzene	92	ND	97	94	3.1
Toluene	94	ND	95	92	3.2
Ethylbenzene	96	ND	98	94	4.2
Xylenes	95	ND	100	97	3.0
Gasoline	102	ND	93	97	4.2

\* Continuous Calibration Verification Standard



PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	ANALYSIS	REMARKS
27.11		Pacific Supply				
L.P. NO.		SAMPLERS: (Signature)		NO. OF CONTAINERS	ANALYSIS	REMARKS
		[Signature]				
DATE	SAMPLE I.D.	TYPE				
8/25/93	VRW-1 7.5-8	Soil	1	X		183A-1
8/25/93	VRW-3 7.5-8			X		-2
8/26/93	VRW-2 7-7.5			X		-3
8/26/93	VRW-4 7.0-7.5			X		-4
8/26/93	VRW-6 7.5-8.0			X		-5
8/26/93	VRW-8 7.5-8.0			X		-6
8/27/93	VRW-5 7.5-8.0			X		-7
8/27/93	VRW-7 7.0-7.5			X		-8
8/27/93	VRW-9 7.0-7.5			X		-9
<div style="display: flex; justify-content: space-between;"> <span>TPH-96.8/149</span> <span>BTEX</span> </div>						

LABORATORY: BAFS		 <b>BRUNSING ASSOCIATES, INC.</b>	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks Standard TAT Analyses as per Tri-Regional Rec T62
[Signature]	8/30/93 2:00 PM	[Signature]	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Offices:
[Signature]		[Signature]	PO Box 588 Windsor CA 95492 707-838-3027
			1735 E. Bayshore Rd., 2A Redwood City CA 94063 415-364-9031
			1515 Ninth Street Rock Springs WY 82901 307-362-9277

## QUALITY CONTROL SUMMARY

Client: BACE Environmental  
Client Contact: Joel Bruxvoort  
Sample Date: 11/3 & 4/93  
Analysis Date: 11/12 & 15/93

BAFS Log No. : 1869

Matrix: Water

Parameter	% RECOVERY				
	CCV%*	Blank	Spike	Spike Dup	RPD
Benzene	100	ND	99	99	<1
Toluene	96	ND	101	96	5.0
Ethylbenzene	96	ND	102	96	6.0
Xylenes	97	ND	100	98	2.0
Gasoline	107	ND	107	111	3.8


\* Continuous Calibration Verification Standard

PROJ. NO. 29.11		PROJECT NAME Pacific Supply		NO. OF CONTAINERS	ANALYSIS TPH Gas/BTEX Org Ph	No 2258										REMARKS
L.P. NO.		SAMPLERS: (Signature) <i>Alan P. Calant</i>														
DATE	SAMPLE I.D.	TYPE														
11-3-93	MW-1 A, B, C, D	water	4	*	*										1869-1	
11-4-93	MW-2 A, B, C, D														-2	
	MW-3 A, B, C, D														-3	
	MW-4 A, B, C, D														-4	
	MW-5 A, B, C, D														-5	
	MW-6 A, B, C, D														-6	
	MW-7 A, B, C, D														-7	
	VRW-1 A, B, C, D														-8	
	VRW-2 A, B, C, D														-9	
	VRW-3 A, B, C, D														-10	
	VRW-4 A, B, C, D														-11	
	VRW-5 A, B, C, D														-12	
	VRW-6 A, B, C, D														-13	
	VRW-7 A, B, C, D														-14	
	VRW-8 A, B, C, D														-15	
	VRW-9 A, B, C, D														-16	
															ABC samples - TPH Gas/BTEX	
															D samples - org Ph	

LABORATORY: BAFS

Relinquished by: (Signature) <i>Alan P. Calant</i>	Date/Time 11-5-93 10:10	Received by: (Signature) <i>[Signature]</i>
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature) <i>[Signature]</i>

Remarks  
report to:  
Joel Bruxvoort



**BRUNGING ASSOCIATES, INC.**

Offices:

PO Box 588 Windsor CA 95492 707-838-3027	1735 E. Bayshore Rd., 2A Rodwood City CA 94063 415-364-9031	1515 Ninth Street Rock Springs WY 82901 307-362-9277
--	---	--



NATIONAL  
ENVIRONMENTAL  
TESTING, INC.

NET Pacific, Inc.  
435 Tesconi Circle  
Santa Rosa, CA 95401  
Tel: (707) 526-7200  
Fax: (707) 526-9623

Tami Huckle-Norgrove  
Brunsing Associates, Inc.  
PO Box 588  
Windsor, CA 95492

Date: 11/15/1993  
NET Client Acct. No: 42100  
NET Pacific Job No: 93.04898  
Received: 11/05/1993

Client Reference Information

Pacific Supply, Project No. 29.11

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:



Jules Skamarack  
Laboratory Manager

Enclosure (s)





Client Acct: 42100  
Client Name: Bruning Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1366  
Page: 2

Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: MW1D

Date Taken: 11/03/1993

Time Taken:

NET Sample No: 177631

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND	N13	1.0	mg/L	DOHS-LUFT	11/10/1993	11/10/1993

N13 : Matrix Spikes out of control, Matrix Interference suspected.



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
Page: 3

Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: MW2D  
Date Taken: 11/04/1993  
Time Taken:  
NET Sample No: 177932

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND	N13	1.0	mg/L	DOHS-LUFT	11/10/1993	11/10/1993

N13 : Matrix Spikes out of control, Matrix Interference suspected.



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No.: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
Page: 4

Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: MW3D

Date Taken: 11/04/1993

Time Taken:

NET Sample No: 177933

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND	NI3	1.0	mg/L	DOHS-LUFT	11/10/1993	11/10/1993

NI3 : Matrix Spikes out of control, Matrix Interference suspected.



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
Page: 5

Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: MW4D

Date Taken: 11/04/1993

Time Taken:

NET Sample No: 177934

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND	N13	1.0	mg/L	DOHS-LUFT	11/10/1993	11/10/1993

N13 : Matrix Spikes out of control, Matrix Interference suspected.



Client Acct: 42100  
Client Name: Brunson Associates, Inc.  
NET Job No.: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
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Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: MWSD

Date Taken: 11/04/1993

Time Taken:

NET Sample No: 177935

Parameter	Results	Flags	Reporting			Date	Date
			Limit	Units	Method	Extracted	Analyzed
Org. Lead (FLAA)	ND	NI3	1.0	mg/L	DOHS-LUFT	11/10/1993	11/10/1993

NI3: Matrix Spikes out of control, Matrix interference suspected.



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
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Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: MW6D

Date Taken: 11/04/1993

Time Taken:

NET Sample No: 177936

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND	N13	1.0	mg/L	DOHS-LUFT	11/10/1993	11/10/1993

N13 : Matrix Spikes out of control, Matrix Interference suspected.



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
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Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: MW7D

Date Taken: 11/04/1993

Time Taken:

NET Sample No: 177937

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND	N13	1.0	mg/L	DONS-LUFT	11/10/1993	11/10/1993

N13 : Matrix Spikes out of control, Matrix Interference suspected.



Client Acct: 42100  
Client Name: Bruning Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
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Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: VRW-1D

Date Taken: 11/04/1993

Time Taken:

NET Sample No: 177938

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND	N13	1.0	mg/L	DOHS-LUFT	11/10/1993	11/10/1993

N13 : Matrix Spikes out of control, Matrix Interference suspected.





Client Acct: 42100

Date: 11/15/1993

Client Name: Bruning Associates, Inc.

ELAP Certificate: 1386

NET Job No: 93.04898

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Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: VRW-2D

Date Taken: 11/04/1993

Time Taken:

NET Sample No: 177939

Parameter	Results	Flags	Reporting		Method	Date	
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND	N13	1.0	mg/L	DOXS-LUFT	11/10/1993	11/10/1993

N13 : Matrix Spikes out of control, Matrix Interference suspected.



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93,04898

Date: 11/15/1993  
ELAP Certificate: 1386  
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Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: VRW-3D

Date Taken: 11/04/1993

Time Taken:

NET Sample No: 177940

Parameter	Results	Flags	Reporting			Date	
			Limit	Units	Method	Extracted	Analyzed
Org. Lead (FLAA)	ND	N13	1.0	mg/L	DOHS-LUFT	11/10/1993	11/10/1993

N13 : Matrix Spikes out of control, Matrix Interference suspected.



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
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Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: VRW-4D

Date Taken: 11/04/1993

Time Taken:

NET Sample No: 177941

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Org. Lead (FLAA)	ND	N13	1.0	mg/L	DOHS-LUFT	11/10/1993	11/10/1993

N13 : Matrix Spikes out of control, Matrix Interference suspected.



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1366  
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Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: VRW-5D

Date Taken: 11/04/1993

Time Taken:

NET Sample No: 177942

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND	N13	1.0	mg/L	DOHS-LUFT	11/10/1993	11/10/1993

N13 : Matrix Spikes out of control, Matrix Interference suspected.



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93.04698

Date: 11/15/1993  
ELAP Certificate: 1386  
Page: 14

Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: VRW-6D

Date Taken: 11/04/1993

Time Taken:

NET Sample No: 177943

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND	NI3	1.0	mg/L	DOHS-LUFT	11/10/1993	11/10/1993

NI3 : Matrix Spikes out of control, Matrix Interference suspected.



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
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Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: VRW-7D  
Date Taken: 11/04/1993  
Time Taken:  
NET Sample No: 177944

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND	N13	1.0	mg/L	DOHS-LUFT	11/10/1993	11/10/1993

N13 : Matrix Spikes out of control, Matrix Interference suspected.



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
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Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: VRW-8D  
Date Taken: 11/04/1993  
Time Taken:  
NET Sample No: 177945

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND	NI3	1.0	mg/L	DOHS-LUFT	11/10/1993	11/10/1993

NI3 : Matrix Spikes out of control, Matrix Interference suspected.



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
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Ref: Pacific Supply, Project No. 29.11

SAMPLE DESCRIPTION: VRW-9D  
Date Taken: 11/04/1993  
Time Taken:  
NET Sample No: 177946

<u>Parameter</u>	<u>Results</u>	<u>Flags</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Method</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>
Org. Lead (FLAA)	ND	N13	1.0	mg/L	DOHS-LUFT	11/10/1993	11/10/1993

N13 : Matrix Spikes out of control, Matrix Interference suspected.





Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
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Ref: Pacific Supply, Project No. 29.11

## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

<u>Parameter</u>	<u>CCV Standard % Recovery</u>	<u>CCV Standard Amount Found</u>	<u>CCV Standard Amount Expected</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Analyst Initials</u>
Org. Lead (FLAA)	104.0	5.2	5.00	mg/L	11/10/1993	ket



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
Page: 19

Ref: Pacific Supply, Project No. 29.11

## METHOD BLANK REPORT

<u>Parameter</u>	<u>Method Blank Amount Found</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Analyst Initials</u>
Org. Lead (FLAA)	ND	1.0	mg/L	11/10/1993	ket



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
Page: 20

Ref: Pacific Supply, Project No. 29.11

### MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike Dup.		Units	Date Analyzed	Analy: Initial
	% Rec.	% Rec.	RPD			Conc.	Conc.			
Org. Lead (FLAA)	56.3	62.5	10.4	8.00	ND	4.5	5.0	mg/L	11/10/1993	ket



Client Acct: 42100  
Client Name: Brunsing Associates, Inc.  
NET Job No: 93.04898

Date: 11/15/1993  
ELAP Certificate: 1386  
Page: 21

Ref: Pacific Supply, Project No. 29.11

## LABORATORY CONTROL SAMPLE REPORT

Parameter	LCS % Recovery	RPD	LCS Amount Found	LCS Amount Expected	Units	Date Analyzed	Analyst Initials
Org. Lead (FLAA)	75.0		6	8.00	mg/L	11/10/1993	ket



## KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- \* : Reporting Limits are a function of the dilution factor for any given sample. Actual reporting limits and results have been multiplied by the listed dilution factor. Do not multiply the reporting limits or reported values by the dilution factor.
- dw : Result expressed as dry weight.
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than the applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference,  $100 \text{ [Value 1 - Value 2] / mean value}$ .
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

### Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, Rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, Rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986., Rev. 1, December 1987.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	ANALYSIS											REMARKS
LP. NO.		SAMPLERS: (Signature)				DATE	SAMPLE I.D.	TYPE								
29.11		Pacific Supply		1	Org Pb											
1869		Dean Asland (THW)														(6510)
11.3.93		mw1 D		Water	X											
11.4.93		mw2 D			X											
		mw3 D			X											
		mw4 D			X											
		mw5 D			X											
		mw6 D			X											
		mw7 D			X											
		VRW-1 D			X											
		VRW 2 D			X											
		VRW 3 D			X											
		VRW 4 D			X											
		VRW 5 D			X											
		VRW 6 D			X											
		VRW 7 D			X											
		VRW 8 D			X											
		VRW 9 D			X											

LABORATORY: **NET**

Relinquished by: (Signature) *T. H. ...* Date/Time 11/5/93 2:00


Received by: (Signature) *J. Brunson* 11-5-93

Relinquished by: (Signature) *J. Brunson* Date/Time 11/5/93 16:55

Received by: (Signature) *J. Brunson*

Relinquished by: (Signature) *J. Brunson* Date/Time *→*

Received for Laboratory by: (Signature) *J. Brunson*

 **BRUNGING ASSOCIATES, INC.**

Offices:

PO Box 588 Windsor CA 95492 707-838-3027	1735 E. Bayshore Rd., 2A Redwood City CA 94063 415-364-9031	1515 Ninth Street Rock Springs WY 82901 307-362-9277
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# & Field Services, Inc.

Windsor, CA 95492  
FAX 707-838-4420

Page: 2 of 9

November 16, 1993  
Log No: 1869

BAFS Log No: 1869

Matrix: Water

Lab No: Descriptor:	Results - $\mu\text{g/L}$	
	1869-1 (MW-1)	1869-2 (MW-2)
samples obtained for project number	ND	230
	ND	7.8
	ND	2.1
	ND	9.9

its previously communicated to you.  
re or results, please feel free to

Lab No: Descriptor:	Results - mg/L	
	1869-1 (MW-1)	1869-2 (MW-2)
	ND	2.5

BACE Analytical  
& Field Services, Inc.



Client: BACE Environmental  
Client Contact: Joel Bruxvoort

Page: 3 of 9

Sample Date: 11/4/93  
Analysis Date: 11/12 & 15/93

BAFS Log No: 1869

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit $\mu\text{g/L}$	Lab No: Descriptor:	Results - $\mu\text{g/L}$	
			1869-3 (MW-3)	1869-4 (MW-4)
Benzene	0.5		0.6	1.3
Toluene	0.5		0.5	1.6
Ethylbenzene	0.5		ND	ND
Xylenes (total)	0.5		ND	ND

Dilution Factor: 1

METHOD: 5030 / GC FID

Parameter	Reporting Limit $\text{mg/L}$	Lab No: Descriptor:	Results - $\text{mg/L}$	
			1869-3 (MW-3)	1869-4 (MW-4)
TPH - gasoline	0.05		0.07	0.08

Dilution Factor: 1

NOTE: ND = not detected.





Client: BACE Environmental  
Client Contact: Joel Bruxvoort

Page: 4 of 9

Sample Date: 11/4/93  
Analysis Date: 11/12 & 15/93

BAFS Log No: 1869

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/L	Lab No: Descriptor:	Results - µg/L	
			1869-5 (MW-5)	1869-6 (MW-6)
Benzene	0.5		ND	ND
Toluene	0.5		ND	1.2
Ethylbenzene	0.5		ND	ND
Xylenes (total)	0.5		ND	0.7

Dilution Factor: 1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/L	Lab No: Descriptor:	Results - mg/L	
			1869-5 (MW-5)	1869-6 (MW-6)
TPH - gasoline	0.05		ND	1.5

Dilution Factor: 1

NOTE: ND = not detected.



Client: BACE Environmental  
Client Contact: Joel Bruxvoort

Page: 5 of 9

Sample Date: 11/4/93  
Analysis Date: 11/12 & 15/93

BAFS Log No: 1869

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/L	Lab No: Descriptor:	Results - µg/L	
			1869-7 (MW-7)	1869-8 (VRW-1)
Benzene	0.5		ND	1600A
Toluene	0.5		ND	19
Ethylbenzene	0.5		ND	1.1
Xylenes (total)	0.5		ND	16

Dilution Factor: 1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/L	Lab No: Descriptor:	Results - mg/L	
			1869-7 (MW-7)	1869-8 (VRW-1)
TPH - gasoline	0.05		ND	3.0

Dilution Factor: 1

NOTE: ND = not detected.  
A = Dilution factor: 20.

BACE Analytical  
& Field Services, Inc.



Client: BACE Environmental  
Client Contact: Joel Bruxvoort

Page: 6 of 9

Sample Date: 11/4/93  
Analysis Date: 11/12 & 15/93

BAFS Log No: 1869

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/L	Lab No: Descriptor:	Results - µg/L	
			1869-9 (VRW-2)	1869-10 (VRW-3)
Benzene	0.5		3300	120
Toluene	0.5		600	41
Ethylbenzene	0.5		2.4	1.1
Xylenes (total)	0.5		870	380
Dilution Factor:			20	5

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/L	Lab No: Descriptor:	Results - mg/L	
			1869-9 (VRW-2)	1869-10 (VRW-3)
TPH - gasoline	0.05		7.2	5.7
Dilution Factor:	1			

NOTE: ND = not detected.

BACE Analytical  
& Field Services, Inc.



Client: BACE Environmental  
Client Contact: Joel Bruxvoort

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Sample Date: 11/4/93  
Analysis Date: 11/12 & 15/93

BAFS Log No: 1869

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/L	Lab No: Descriptor:	Results - µg/L	
			1869-11 (VRW-4)	1869-12 (VRW-5)
Benzene	0.5		4400	68
Toluene	0.5		900	33
Ethylbenzene	0.5		5.4	2.5
Xylenes (total)	0.5		990	32
Dilution Factor:			20	1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/L	Lab No: Descriptor:	Results - mg/L	
			1869-11 (VRW-4)	1869-12 (VRW-5)
TPH - gasoline	0.05		9.0	0.90
Dilution Factor:	1			

NOTE: ND = not detected.



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METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/L	Lab No: Descriptor:	Results - µg/L	
			1869-13 (VRW-6)	1869-14 (VRW-7)
Benzene	0.5		6.6	ND
Toluene	0.5		1.0	ND
Ethylbenzene	0.5		ND	ND
Xylenes (total)	0.5		31	ND

Dilution Factor: 1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/L	Lab No: Descriptor:	Results - mg/L	
			1869-13 (VRW-6)	1869-14 (VRW-7)
TPH - gasoline	0.05		0.41	0.10

Dilution Factor: 1

NOTE: ND = not detected.



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METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/L	Lab No: Descriptor:	Results - µg/L	
			1869-15 (VRW-8)	1869-16 (VRW-9)
Benzene	0.5		460	36
Toluene	0.5		54	18
Ethylbenzene	0.5		ND	ND
Xylenes (total)	0.5		53	1.0
Dilution Factor:			10	1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/L	Lab No: Descriptor:	Results - mg/L	
			1869-15 (VRW-8)	1869-16 (VRW-9)
TPH - gasoline	0.05		5.9	0.47
Dilution Factor:			10	1

NOTE: ND = not detected.

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**SUMMARY OF  
LABORATORY RESULTS \***

**Pacific Supply - Project No. 29.11**

Sampling Date	Lab Number	Descriptor	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	TPH (gasoline) mg/L
11/3/93	1869-1	MW-1	ND	ND	ND	ND	ND
11/4/93	1869-2	MW-2	230	7.8	2.1	9.9	2.5
11/4/93	1869-3	MW-3	0.6	0.5	ND	ND	0.07
11/4/93	1869-4	MW-4	1.3	1.6	ND	ND	0.08
11/4/93	1869-5	MW-5	ND	ND	ND	ND	ND
11/4/93	1869-6	MW-6	ND	1.2	ND	0.7	1.5
11/4/93	1869-7	MW-7	ND	ND	ND	ND	ND
11/4/93	1869-8	VRW-1	1600	19	1.1	16	3.0
11/4/93	1869-9	VRW-2	3300	600	2.4	870	7.2
11/4/93	1869-10	VRW-3	120	41	1.1	380	5.7
11/4/93	1869-11	VRW-4	4400	900	5.4	990	9.0
11/4/93	1869-12	VRW-5	68	33	2.5	32	0.90
11/4/93	1869-13	VRW-6	6.6	1.0	ND	31	0.41
11/4/93	1869-14	VRW-7	ND	ND	ND	ND	0.10
11/4/93	1869-15	VRW-8	460	54	ND	53	5.9
11/4/93	1869-16	VRW-9	36	18	ND	1.0	0.47

\* See original laboratory report dated 11/16/93 for complete results.