



BACE Environmental

A Division Of

Brunsing Associates, Inc.

94 OCT 20 PM 4: 03

October 11, 1994

Project No. 29.7

3826

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

RE: Quarterly Groundwater Monitoring Report: September 1994
Pacific Supply Company
1735 24th Street
Oakland, California

Dear Ms. Callison:

This report has been prepared to document groundwater monitoring performed by BACE Environmental, a division of Brunsing Associates, Inc. (BAI) at the Pacific Supply Company property located at 1735 24th Street, Oakland, California.

Scope of Work

The scope of work performed during this reporting period included testing for the existence of free product, calculating groundwater elevations, and collecting groundwater samples from on-site monitoring wells MW-1 through MW-5 and off-site wells MW-6 and MW-7 (Plate 1).

Site Background

Monitoring wells MW-1 through MW-5 were constructed in September, 1988 as the first phase of a soil and groundwater investigation. Monitoring wells MW-6 and MW-7 were constructed on December 19, 1989 during Phase II of the same investigation. The construction and sampling of these wells are documented in BAI's Report of Findings, dated March 23, 1990. Table 1 is a cumulative summary of the groundwater analytical data available for the wells as documented in the March 23, 1990 Report of Findings and subsequent quarterly groundwater monitoring reports.

Groundwater Elevations

Depth to groundwater measurements were obtained on September 1, 1994 for wells MW-1 through MW-7. The groundwater depths and elevations relative to mean sea level are summarized in Table 2. Groundwater flow generally appears to be northerly towards wells MW-1 and MW-2. Monitoring well MW-7 continues to indicate an anomalously low groundwater elevation by a magnitude of several feet.

Groundwater Sampling

Groundwater monitoring wells MW-1 through MW-7 were sampled on September 1, 1994 using the methods described in Appendix A. Free product was not found in any of the wells. Water samples were transported to BACE Analytical and Field Services (BAFS) and National Environmental Testing, Inc. (NET) for analyses of petroleum hydrocarbon constituents and organic lead using the following analytical methods:

- Total Petroleum Hydrocarbons (TPH) as gasoline
-EPA Test Method 5030/GCFID;
- Benzene, Toluene, Ethylbenzene and Xylenes (BTEX)
-EPA Test Method 5030/8020;
- Organic Lead
-SWRCB LUFT Method.

Based on a September 8, 1994 letter received from Jennifer Eberle of the Alameda County Health Care Services, sampling for organic lead will be discontinued. The data included herein will be the final reported data for organic lead.

Groundwater Analytical Results

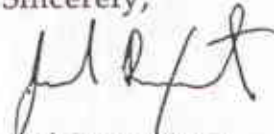
Analytical laboratory results for the September 1, 1994 groundwater monitoring round are summarized in Table 1. The TPH as gasoline results are shown on Plate 2. The laboratory reports and Chain-of-Custody form pertaining to the sampling of monitoring wells MW-1 through MW-7 are included in Appendix B.



Ms. Normita Callison
October 11, 1994
Page 3

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

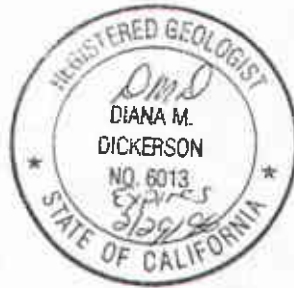
Sincerely,



Joel Bruxvoort
Project Geologist



Diana M. Dickerson R.G., R.E.A
Senior Geologist



Attachments: Table 1 - Analytical Data Summary
 Table 2 - Groundwater Elevation Data
 Plate 1- Groundwater Elevations, September 1, 1994
 Plate 2- Total Petroleum Hydrocarbons as Gasoline,
 September 1, 1994
 Appendix A- Monitoring Well Sampling Protocol
 Appendix B - Analytical Laboratory Reports

cc: Jennifer Eberle, Alameda County Health Agency
 Tony DeJohn, Pacific Supply Company



TABLE 1
ANALYTICAL DATA SUMMARY
PACIFIC SUPPLY COMPANY

Well Identification	Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-1	10/14/88	1.1	1.1	ND	-	ND	-
MW-1	12/29/89	ND	ND	ND	ND	ND	ND (1)
MW-1	5/28/92	ND	ND	ND	ND	ND	0.003(2)
MW-1	9/3/92	ND	ND	ND	ND	ND	0.12 (2)
MW-1	11/24/92	ND	ND	ND	ND	ND	0.017 (2)
MW-1	3/9/93	ND	ND	ND	ND	ND	ND (1)
MW-1	7/21/93	ND	ND	ND	ND	ND	ND (1)
MW-1	11/3/93	ND	ND	ND	ND	ND	ND (1)
MW-1	2/1/94	ND	ND	ND	ND	ND	ND (1)
MW-1	6/2/94	ND	ND	ND	ND	ND	ND (1)
MW-1	9/1/94	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND (1)

MW-2	10/14/88	11	23	20	-	16	-
MW-2	12/29/89	4	200	6.7	ND	ND	0.22 (1)
MW-2	5/28/92	8.9	550	48	ND	13	ND (2)
MW-2	9/3/92	2.1	760	6.2	1.8	5.1	0.006 (2)
MW-2	11/24/92	4.2	370	15	3.4	9.5	ND (2)
MW-2	3/9/93	4.3	280	14	3.7	7.1	ND (1)
MW-2	7/21/93	3.4	250	9.6	2.5	11	ND(1)
MW-2	11/4/93	2.5	230	7.8	2.1	9.9	ND(1)
MW-2	2/1/94	3.4	240	17	ND	15	ND(1)
MW-2	6/2/94	3.0	150	9.8	3.0	10	ND(1)
MW-2	9/1/94	2.1 ✓	120 ✓	9.8	2.0	9.6	ND(1)

dilution factor: 5



TABLE 1
ANALYTICAL DATA SUMMARY
PACIFIC SUPPLY COMPANY

Well Identification	Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-3	10/14/88	3.4	ND	ND	-	2.8	-
MW-3	12/29/89	ND	ND	ND	ND	ND	0.205 (1)
MW-3	5/28/92	ND	0.8	0.5	ND	ND	0.016 (2)
MW-3	9/3/92	ND	ND	ND	ND	ND	0.033 (2)
MW-3	11/24/92	ND	ND	ND	ND	ND	0.011 (2)
MW-3	3/9/93	0.1	1.8	ND	ND	ND	ND(1)
MW-3	7/21/93	ND	ND	ND	ND	ND	ND(1)
MW-3	11/4/93	0.07	0.6	0.5	ND	ND	ND(1)
MW-3	2/1/94	ND	ND	ND	ND	ND	ND(1)
MW-3	6/2/94	0.06	ND	ND	ND	ND	ND(1)
MW-3	9/1/94	0.07	1.7	0.9	ND	ND	ND(1)

MW-4	10/14/88	4.6	1.2	ND	-	2.2	-
MW-4	12/29/89	0.5	0.7	ND	ND	ND	ND (1)
MW-4	5/28/92	0.27	8.8	1	ND	3.2	0.030 (2)
MW-4	9/3/92	0.20	4.5	4.4	ND	1.9	0.022 (2)
MW-4	11/24/92	0.14	3.2	3.2	ND	1.0	0.005 (2)
MW-4	3/9/93	0.47	10	ND	ND	2.5	ND (1)
MW-4	7/21/93	0.28	4.4	5.9	ND	ND	ND(1)
MW-4	11/4/93	0.08	1.3	1.6	ND	ND	ND(1)
MW-4	2/1/94	0.08	ND	ND	ND	ND	ND(1)
MW-4	6/2/94	0.30	3.1	2.9	ND	0.8	ND(1)
MW-4	6/2/94	0.12	1.6	ND	ND	ND	ND(1)



TABLE 1
ANALYTICAL DATA SUMMARY
PACIFIC SUPPLY COMPANY

Well Identification	Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-5	10/14/88	3.2	ND	ND	-	ND	-
MW-5	12/29/89	ND	ND	ND	ND	ND	ND (1)
MW-5	5/28/92	ND	ND	ND	ND	ND	0.008 (2)
MW-5	9/3/92	ND	ND	ND	ND	ND	0.034 (2)
MW-5	11/24/92	ND	ND	ND	ND	ND	0.011 (2)
MW-5	3/9/93	ND	ND	ND	ND	ND	ND (1)
MW-5	7/21/93	ND	ND	ND	ND	ND	ND(1)
MW-5	11/4/93	ND	ND	ND	ND	ND	ND(1)
MW-5	2/1/94	ND	ND	ND	ND	ND	ND(1)
MW-5	6/2/94	ND	ND	ND	ND	ND	ND(1)
MW-5	9/1/94	ND	ND	ND	ND	ND	ND(1)

MW-6	12/29/89	1.1	5.4	4.5	ND	ND	ND (1)
MW-6	3/9/93	2.3	2.3	2.8	ND	3.1	ND (1)
MW-6	7/21/93	0.59	ND	7.6	ND	ND	ND(1)
MW-6	11/4/93	1.5	ND	1.2	ND	0.7	ND(1)
MW-6	2/1/94	1.9	2.5	3.9	1.6	1.1	ND(1)
MW-6	6/2/94	1.3	ND	1	ND	ND	ND(1)
MW-6	9/1/94	2.2	ND	1.7	ND	ND	ND(1)



TABLE 1
ANALYTICAL DATA SUMMARY
PACIFIC SUPPLY COMPANY

Well Identification	Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-7	12/29/89	ND	ND	ND	ND	ND	0.235 (1)
MW-7	3/9/93	ND	ND	ND	ND	ND	ND (1)
MW-7	7/21/93	ND	ND	ND	ND	ND	ND(1)
MW-7	11/4/93	ND	ND	ND	ND	ND	ND(1)
MW-7	2/1/94	ND	ND	ND	ND	ND	ND(1)
MW-7	6/2/94	ND	ND	ND	ND	ND	ND(1)
MW-7	9/1/94	ND	ND	ND	ND	ND	ND(1)

Notes:

(1) Organic Lead

(2) Total Lead

ND = not detected at laboratory reporting limit

µg/L = micrograms per liter

mg/L = milligrams per liter

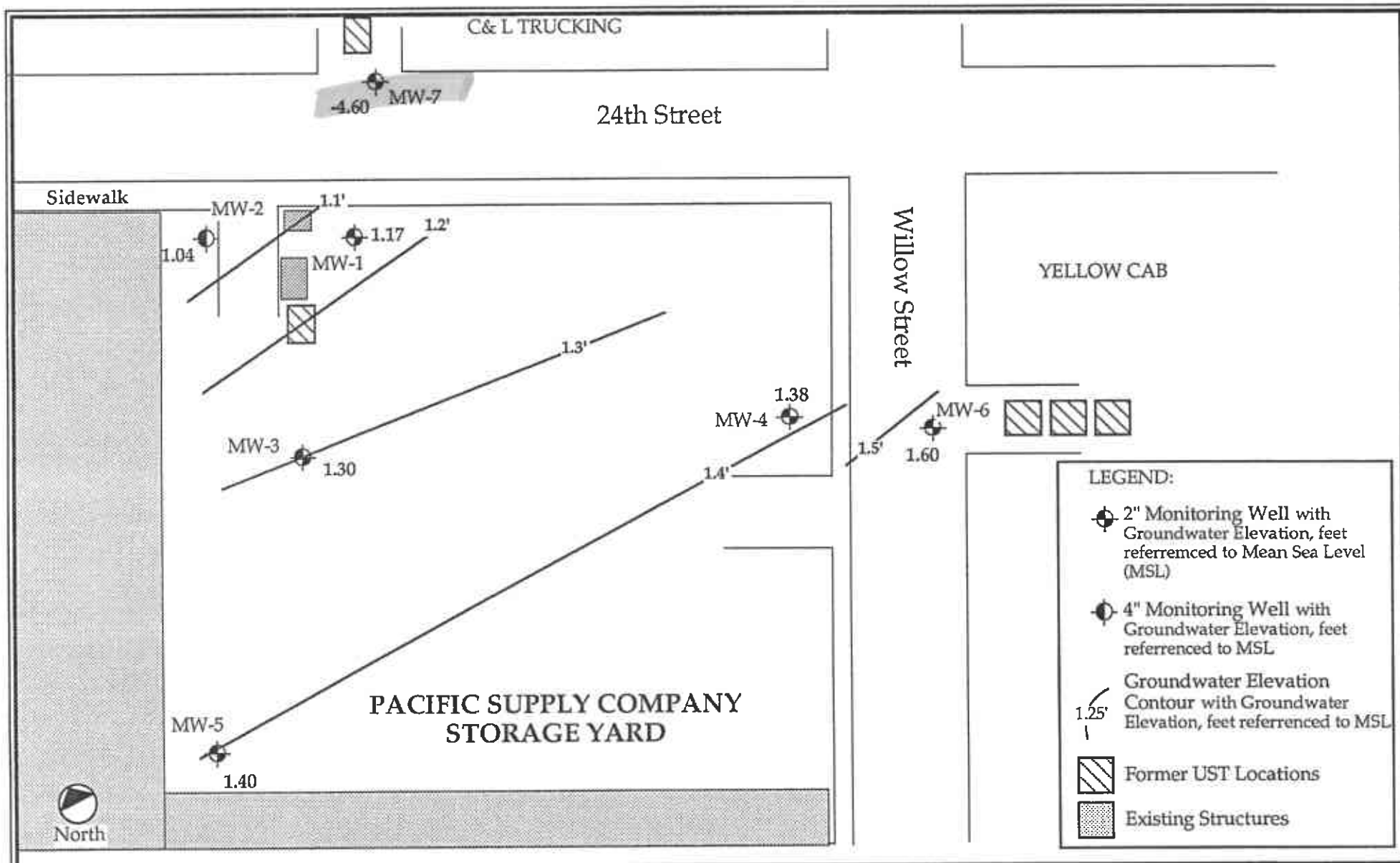


TABLE 2
GROUNDWATER ELEVATION DATA
PACIFIC SUPPLY COMPANY

Well Identification	Date Measured	Elevation of Casing (ft, MSL)	Depth to Water (ft)	Groundwater Elevation (ft, MSL)
MW-1	9/1/94	8.87	7.70	1.17
MW-2	9/1/94	8.14	7.10	1.04
MW-3	9/1/94	9.13	7.83	1.30
MW-4	9/1/94	9.07	7.69	1.38
MW-5	9/1/94	8.93	7.53	1.40
MW-6	9/1/94	6.13	4.53	1.60
MW-7	9/1/94	5.03	9.63	-4.60

MSL = referenced to Mean Sea Level





PROJECT NUMBER: 29.7
 PACIFIC SUPPLY COMPANY
 OAKLAND, CALIFORNIA

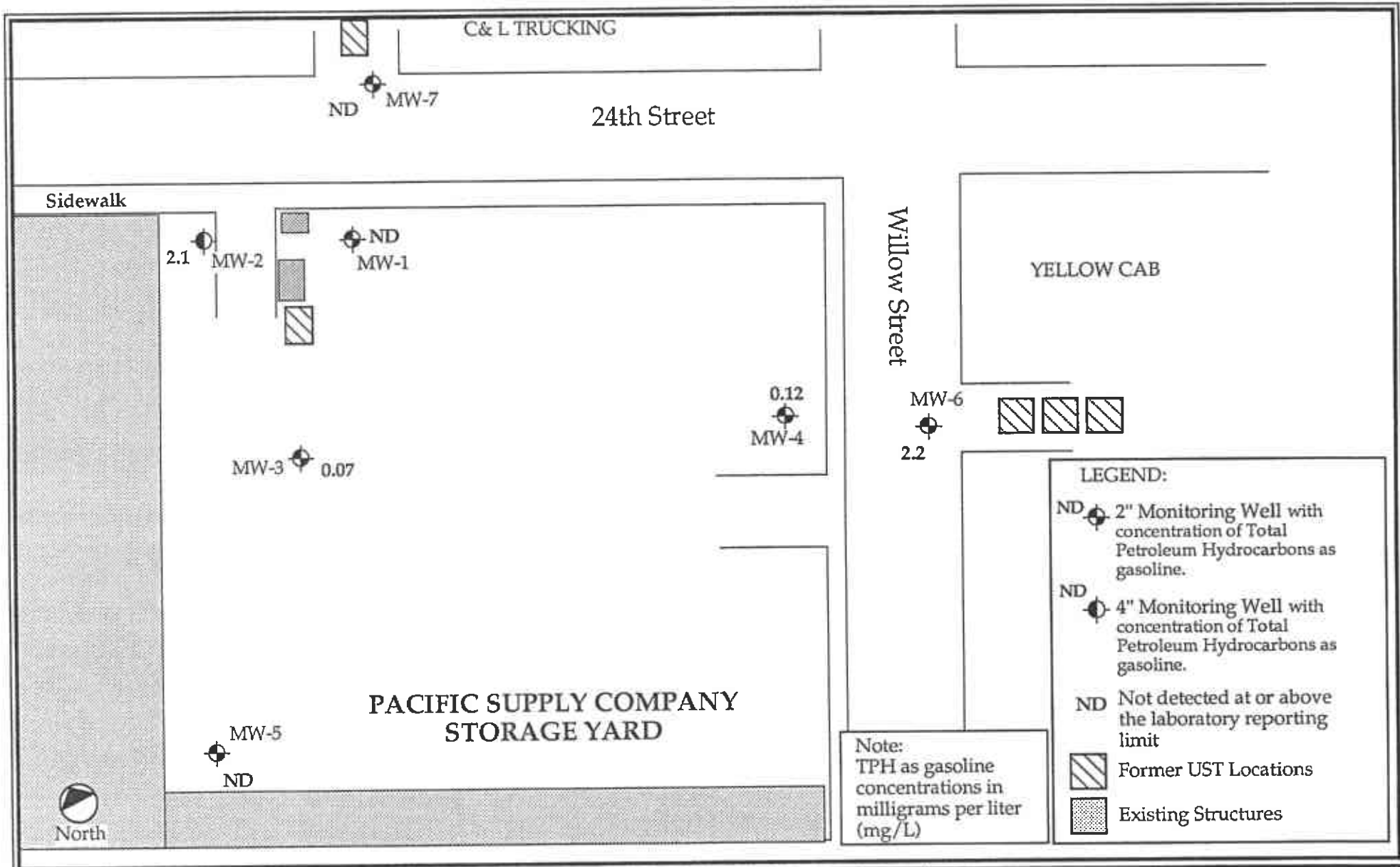
DRAWING NUMBER: 29.7-01

DRAWN BY:	JBB	9/19/94
APPROVED BY:		

SCALE: 1 Inch = 50 Feet

BACE Environmental
A Division Of
Brunsing Associates, Inc.

Plate 1
 Groundwater Elevations
 September 1, 1994
 Pacific Supply Company
 Oakland, California



PROJECT NUMBER: 29.7
 PACIFIC SUPPLY COMPANY
 OAKLAND, CALIFORNIA
 DRAWING NUMBER: 29.7-07
 DRAWN BY: JBB 9/19/94
 APPROVED BY:
 SCALE: 1 Inch = 50 Feet

BACE Environmental
A Division Of
Brunsing Associates, Inc.

Plate 2
 Total Petroleum Hydrocarbons as Gasoline
 September 1, 1994
 Pacific Supply Company
 Oakland, California

APPENDIX A
Monitoring Well Sampling Protocol



Monitoring Well Sampling Protocol

Prior to purging of each monitoring well, the groundwater level is measured and a single bailer full of water is retrieved from the well to check for floating product. The monitoring well is then purged until a minimum of three casing volumes of water are removed, water is relatively clear of sediment, and pH, conductivity, and temperature measurements of the water stabilizes. If wells go dry during purging, the wells are allowed to recover to 80 percent of original water level prior to sampling.

A single groundwater sample is collected from each monitoring well following re-equilibration of each well after purging. Individual log sheets are maintained throughout the sampling operations. The following information is recorded:

- Sample number
- Date and time sampled and purged
- Sampling location
- Types of sampling equipment used
- Name of sampler(s)
- Volume of water purged.

The sample is collected in the following manner:

- A hand-operated, factory-sealed, disposable, polyethylene bailer with sampling port is used for collecting all water samples. A factory provided attachment designed for use with volatile organic compounds (VOCs) is attached to the sampling port when collecting samples to be analyzed for VOCs.
- The sample container(s) are obtained directly from the analytical laboratory. Sample bottles, bottle caps, and septa are protected from solvent contact, dust or other contamination between time of receipt by the field sampler and time of actual usage at the sampling site.

The sample container is labeled with a self-adhesive tag. Field personnel label the tag, using waterproof ink, with the following information:

- Project number
- Sample number
- Date and time sample is obtained
- Initials of sample collector(s).



Following collection, the sample is immediately stored on blue ice in an appropriate container. A Chain-of-Custody Record is completed with the following information:

- Date the sample was taken
- Sample number and the number of containers
- Analyses required
- Remarks including preservatives added and any special conditions.

The original copy of the Chain-of-Custody Record accompanies the sample containers to a California-certified laboratory. The duplicate copy is retained by the BAI representative who sampled the well.

Sampling equipment is cleaned both before and after their use at the sampling location. Thermometers, pH electrodes, and conductivity probes are also cleaned.

The following cleaning procedures are used:

- Scrub with a detergent-potable water solution or other solutions deemed appropriate using a hard bristle brush
- Rinse with potable water
- Double-rinse with organic-free or deionized water
- Package and seal equipment in plastic bags or other appropriate containers to prevent contact with solvents, dust, or other contaminants.

Cleaning solutions are added to the storage tank for processing on-site by the permitted groundwater treatment system prior to discharging to the sanitary sewer.



APPENDIX B
Analytical Laboratory Reports





BACE Analytical
& Field Services, Inc.

September 8, 1994

Log No: 2076

Laboratory Certification Number: 1264

BACE Environmental
a division of
Brunsing Associates, Inc.
1735 E. Bayshore Road, Suite 1A
Redwood City, California 94063

ATTN: Mike Velzy

RE: Results of the analyses of groundwater samples obtained for project number
29.7 on September 1, 1994.

Dear Mr. Velzy,

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: Mike Velzy

Page: 2 of 5

Sample Date: 9/1/94
Analysis Date: 9/6 & 7/94

BAFS Log No: 2076

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/l	Lab No: Descriptor:	Results - µg/l	
			2076-1 (MW-1)	2076-2 (MW-2)
Benzene	0.5		ND	120 A ✓
Toluene	0.5		ND	9.8
Ethylbenzene	0.5		ND	2.0
Xylenes (total)	0.5		ND	9.6
Dilution Factor:	1			

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/l	Lab No: Descriptor:	Results - mg/l	
			2076-1 (MW-1)	2076-2 (MW-2)
TPH - gasoline	0.05		ND ✓	2.1 ✓
Dilution Factor:	1			

NOTE: ND = not detected.
A = Dilution Factor: 5



Client: BACE Environmental
Client Contact: Mike Velzy

Sample Date: 9/1/94
Analysis Date: 9/6 & 7/94

BAFS Log No: 2076

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/l	Lab No: Descriptor:	Results - µg/l	
			2076-3 (MW-3)	2076-4 (MW-4)
Benzene	0.5		1.7 /	1.6 /
Toluene	0.5		0.9	ND
Ethylbenzene	0.5		ND	ND
Xylenes (total)	0.5		ND	ND
Dilution Factor:	1			

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/l	Lab No: Descriptor:	Results - mg/l	
			2076-3 (MW-3)	2076-4 (MW-4)
TPH - gasoline	0.05		0.07 /	0.12 /
Dilution Factor:	1			

NOTE: ND = not detected.



Client: BACE Environmental
Client Contact: Mike Velzy

Page: 4 of 5

Sample Date: 9/1/94
Analysis Date: 9/6 & 7/94

BAFS Log No: 2076

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/l	Lab No: Descriptor:	Results - µg/l	
			2076-5 (MW-5)	2076-6 (MW-6)
Benzene	0.5		ND	ND ✓
Toluene	0.5		ND	1.7
Ethylbenzene	0.5		ND	ND
Xylenes (total)	0.5		ND	ND

Dilution Factor: 1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/l	Lab No: Descriptor:	Results - mg/l	
			2076-5 (MW-5)	2076-6 (MW-6)
TPH - gasoline	0.05		ND	2.2 ✓

Dilution Factor: 1

NOTE: ND = not detected.



Client: BACE Environmental
Client Contact: Mike Velzy

Page: 5 of 5

Sample Date: 9/1/94
Analysis Date: 9/6 & 7/94

BAFS Log No: 2076

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/l	Lab No: Descriptor:	Results - µg/l 2076-7 (MW-7)
Benzene	0.5		ND
Toluene	0.5		ND
Ethylbenzene	0.5		ND
Xylenes (total)	0.5		ND
Dilution Factor:	1		

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/l	Lab No: Descriptor:	Results:- mg/l 2076-7 (MW-7)
TPH - gasoline	0.05		ND
Dilution Factor:	1		

NOTE: ND = not detected.



SUMMARY OF
LABORATORY RESULTS *

Pacific Supply- Project No. 29.7

WATER

Sampling Date	Lab Number	Descriptor	Benzene µg/l	Toluene µg/l	Ethylbenzene µg/l	Xylenes µg/l	TPH-gasoline mg/l
9/1/94	2076 - 1	MW-1	ND	ND	ND	ND	ND
9/1/94	2076 - 2	MW-2	120	9.8	2.0	9.6	2.1
9/1/94	2076 - 3	MW-3	1.7	0.9	ND	ND	0.07
9/1/94	2076 - 4	MW-4	1.6	ND	ND	ND	0.12
9/1/94	2076 - 5	MW-5	ND	ND	ND	ND	ND
9/1/94	2076 - 6	MW-6	ND	1.7	ND	ND	2.2
9/1/94	2076 - 7	MW-7	ND	ND	ND	ND	ND

* See original laboratory report dated 9/8/94 for complete results.



QUALITY CONTROL SUMMARY

Client: BACE Environmental
Client Contact: Mike Velzy
Sample Date: 9/1/94
Analysis Date: 9/6 & 7/94

BAFS Log No. : 2076

Matrix: Water

Parameter	% RECOVERY				
	CCV%*	Blank	Spike	Spike Dup	RPD
Gasoline	103	ND	90	98	8.5
Benzene	98	ND	101	106	4.8
Toluene	98	ND	99	105	5.9
Ethylbenzene	98	ND	106	104	1.9
Xylenes	97	ND	101	102	1.0

* Continuous Calibration Verification Standard




PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	ANALYSIS											REMARKS		
L.P. NO.		SAMPLERS: (Signature)			TPH GAS/BTEX													
DATE	SAMPLE I.D.	TYPE																
29.7	PACIFIC SUPPLY																	
	Chie Scott																	
9-1-94	MW-1	WATER	3	X														2076-1
9-1-94	MW-2	WATER	3	X														-2
9-1-94	MW-3	WATER	3	X														-3
9-1-94	MW-4	WATER	3	X														-4
9-1-94	MW-5	WATER	3	X														-5
9-1-94	MW-6	WATER	3	X														-6
9-1-94	MW-7	WATER	3	X														-7

No 2494

LABORATORY: BAFS

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks
Chie Scott	9/1/94 2100	[Signature]	RESULTS TO: MIKE VELY
[Signature]	[Signature]	[Signature]	
[Signature]	[Signature]	Received by Laboratory by: [Signature]	

 **BRUNSING 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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NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Mike Velzy
Brunsing Associates, Inc.
PO Box 588
Windsor, CA 95492

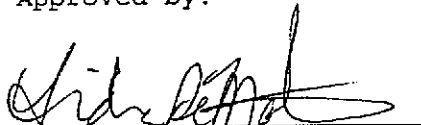
Date: 09/13/1994
NET Client Acct. No: 42100
NET Pacific Job No: 94.03990
Received: 09/02/1994

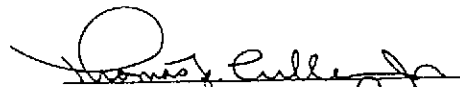
Client Reference Information

Pacific Supply, Project No. 29.7

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. 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:


Linda DeMartino
Project Coordinator


Jim Hoch
Operations Manager

Enclosure(s)





Client Name: Brunsing Associates, Inc.
Client Acct: 42100
NET Job No: 94.03990

Date: 09/13/1994
ELAP Cert: 1386
Page: 2

Ref: Pacific Supply, Project No. 29.7

SAMPLE DESCRIPTION: MW-1

Date Taken: 09/01/1994

Time Taken:

NET Sample No: 213935

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND		5.0	mg/L	DOHS-LUFT	09/12/1994	09/12/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Brunsing Associates, Inc.
Client Acct: 42100
NET Job No: 94.03990

Date: 09/13/1994
ELAP Cert: 1386
Page: 3

Ref: Pacific Supply, Project No. 29.7

SAMPLE DESCRIPTION: MW-2
Date Taken: 09/01/1994
Time Taken:
NET Sample No: 213936

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND		5.0	mg/L	DOHS-LUFT	09/12/1994	09/12/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Brunsing Associates, Inc.
Client Acct: 42100
NET Job No: 94.03990

Date: 09/13/1994
ELAP Cert: 1386
Page: 4

Ref: Pacific Supply, Project No. 29.7

SAMPLE DESCRIPTION: MW-3
Date Taken: 09/01/1994
Time Taken:
NET Sample No: 213937

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND		5.0	mg/L	DOHS-LUFT	09/12/1994	09/12/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Brunsing Associates, Inc.
Client Acct: 42100
NET Job No: 94.03990

Date: 09/13/1994
ELAP Cert: 1386
Page: 5

Ref: Pacific Supply, Project No. 29.7

SAMPLE DESCRIPTION: MW-4

Date Taken: 09/01/1994

Time Taken:

NET Sample No: 213938

Parameter	Results	Flags	Reporting		Method	Date	
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND		5.0	mg/L	DOHS-LUFT	09/12/1994	09/12/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Brunsing Associates, Inc.
Client Acct: 42100
NET Job No: 94.03990

Date: 09/13/1994
ELAP Cert: 1386
Page: 6

Ref: Pacific Supply, Project No. 29.7

SAMPLE DESCRIPTION: MW-5
Date Taken: 09/01/1994
Time Taken:
NET Sample No: 213939

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND		5.0	mg/L	DOHS-LUFT	09/12/1994	09/12/1994

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Client Acct: 42100
NET Job No: 94.03990

Date: 09/13/1994
ELAP Cert: 1386
Page: 7

Ref: Pacific Supply, Project No. 29.7

SAMPLE DESCRIPTION: MW-6
Date Taken: 09/01/1994
Time Taken:
NET Sample No: 213940

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND		5.0	mg/L	DOHS-LUFT	09/12/1994	09/12/1994

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 Client Acct: 42100
 NET Job No: 94.03990

Date: 09/13/1994
 ELAP Cert: 1386
 Page: 8

Ref: Pacific Supply, Project No. 29.7

SAMPLE DESCRIPTION: MW-7
 Date Taken: 09/01/1994
 Time Taken:
 NET Sample No: 213941

Parameter	Results	Flags	Reporting		Method	Date	
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND		5.0	mg/L	DOHS-LUFT	09/12/1994	09/12/1994

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Client Name: Brunsing Associates, Inc.
Client Acct: 42100
NET Job No: 94.03990

Date: 09/13/1994
ELAP Cert: 1386
Page: 9

Ref: Pacific Supply, Project No. 29.7

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	Units	Date	Analyst
	Standard	Standard			
	% Recovery	Amount Found	Amount Expected	Analyzed	Initials
Org. Lead (FLAA)	102.8	64.28	62.5	09/12/1994	ket

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Client Name: Brunsing Associates, Inc.
Client Acct: 42100
NET Job No: 94.03990

Date: 09/13/1994
ELAP Cert: 1386
Page: 10

Ref: Pacific Supply, Project No. 29.7

METHOD BLANK REPORT

<u>Parameter</u>	Method	<u>Reporting</u>	<u>Units</u>	<u>Date</u>	<u>Analyst</u>
	Blank			<u>Analyzed</u>	<u>Initials</u>
	<u>Amount</u>	<u>Limit</u>			
	<u>Found</u>				
Org. Lead (FLAA)	ND	5.0	mg/L	09/12/1994	ket

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Client Name: Brunsing Associates, Inc.
 Client Acct: 42100
 NET Job No: 94.03990

Date: 09/13/1994
 ELAP Cert: 1386
 Page: 11

Ref: Pacific Supply, Project No. 29.7

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike		Units	Date Analyzed	Analyst Initials
	Spike % Rec.	Dup % Rec.	RPD			Spike Conc.	Dup. Conc.			
Org. Lead (FLAA)	49.6	51.2	3.2	100	ND	49.60	51.23	mg/L	09/12/1994	ket

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Client Name: Brunsing Associates, Inc.
Client Acct: 42100
NET Job No: 94.03990

Date: 09/13/1994
ELAP Cert: 1386
Page: 12

Ref: Pacific Supply, Project No. 29.7

LABORATORY CONTROL SAMPLE REPORT

<u>Parameter</u>	<u>LCS</u>	<u>LCS</u>	<u>LCS</u>	<u>Units</u>	<u>Date</u>	<u>Analyst</u>
	<u>% Recovery</u>	<u>RPD</u>	<u>Amount</u>	<u>Amount</u>	<u>Analyzed</u>	<u>Initials</u>
			<u>Found</u>	<u>Expected</u>		
Org. Lead (FLAA)	96.4		96.37	100	mg/L	09/12/1994 ket

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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.