



BACE Environmental

A Division Of

Brunsing Associates, Inc.

November 2, 1992

Ms. Normita Callison
Gladding McBean Co.
P.O. Box 97
Lincoln, CA 95648

3826
92 NOV -5
NOV 11: 29

RE: QUARTERLY GROUNDWATER MONITORING REPORT: SEPTEMBER 1992
PACIFIC SUPPLY COMPANY, 1735 24TH STREET OAKLAND, CALIFORNIA

94607

Dear Ms. Callison:

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

Scope of Work

On-site monitoring wells MW-1 through MW-5 were tested for the existence of free product and groundwater samples were obtained on September 3, 1992. Off-site monitoring wells MW-6 and MW-7 were not sampled at this time. In addition, groundwater elevations were obtained for all seven monitoring wells and a groundwater elevation map was prepared.

why?

Site Background

Monitoring wells MW-1 through MW-5 were constructed by BAI on Sept 13, 1988 as the first phase of a soil and groundwater investigation. Monitoring wells MW-6 and MW-7 were constructed by BAI on December 19, 1989 as Phase II of the same investigation. The construction and sampling of these wells are documented in the Report of Findings dated March 23, 1990.

Table 2 through Table 6 include all previous analytical data available for the wells as documented in the March 23, 1990 Report of Findings and a July 7, 1992 Quarterly Groundwater Monitoring Report.

Groundwater Sampling and Sample Handling

Prior to well purging, the monitoring wells were tested for the presence of free product using petroleum indicating paste applied to a steel tape. Free product was not found in any of the on-site wells. Samples were collected using disposable polyethylene bailers to avoid cross contamination and sample water was placed in approved sample containers for transport in a cooler containing blue ice under chain-of-custody procedures to BACE Analytical and Field Services (BAFS). Copies of the Chain-of-Custody forms are enclosed. Groundwater samples were tested for petroleum hydrocarbons and lead using the following analytical methods:

- Total Petroleum Hydrocarbons (TPH) as gasoline
-EPA Method 5030/GCFID;
- Benzene, Toluene, Ethyl Benzene and Xylene (BTEX)
-EPA Method 5030/8020;
- Total Lead
-EPA Method 7421.

Groundwater Analytical Results

Analytical data reports from BACE Analytical & Field Services for the September 3, 1992 quarterly groundwater monitoring round are summarized on Table 1. Copies of the Laboratory Data Sheets are enclosed.

Groundwater Elevations

Depth to groundwater measurements were obtained on September 3, 1992 for MW-1 through MW-7. The groundwater depths and elevations relative to mean sea level are summarized on Table 7. As shown in Figure 1, variation in the groundwater elevations indicate a complex groundwater flow regime at the site. Groundwater flow direction is generally to the north and east.



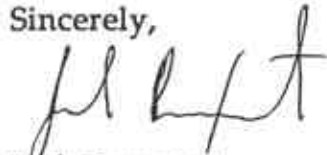
Ms. Callison
November 2, 1992
Page 3

Hydrocarbons Removed from Site

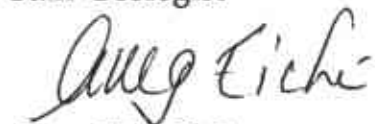
Based on the volume of purge water removed during the sampling performed in the previous quarter and estimated concentrations of TPH as gasoline; negligible quantities hydrocarbons were removed from the site. Purge water from the September 3, 1992 sampling event remains on the site in labeled 55-gallon drums pending appropriate disposal. → follow up

If you have any questions please contact Mike Velzy at (415) 362-9030.

Sincerely,



Joel Bruxvoort
Staff Geologist



Greg Eiché R.G.
Senior Geologist

JBB:jbb

Enclosures: Table 1 through Table 7
Figure 1- Groundwater Elevation Contours
Analytical Data Sheets

cc: Jennifer Eberly, Alameda County Health Care Services
Jim Anderson, Pacific Supply Company
Larry Halsey, Pacific Coast Building Products



TABLE 1
SUMMARY OF GROUNDWATER ANALYSES
PACIFIC SUPPLY COMPANY

Descriptor	Sampling Date	TPH (gasoline) mg/L <i>ppb</i>	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Xylene µg/L	Total Lead mg/L
MW-1	9/3/92	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	0.12 ✓
MW-2	9/3/92	2.1 ✓	7.8 ✓	6.2 ✓	1.8 ✓	5.1 ✓	0.006 ✓
MW-3	9/3/92	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	0.033 ✓
MW-4	9/3/92	0.28 ✓	4.5 ✓	4.4 ✓	ND ✓	1.9 ✓	0.022 ✓
MW-5	9/3/92	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	0.034 ✓

*STL
5mg/L*



TABLE 2
 CUMULATIVE SUMMARY OF GROUNDWATER ANALYSES
 MONITORING WELL (MW-1)
 PACIFIC SUPPLY COMPANY

Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Xylene µg/L	Lead mg/L
10/14/88	1.1	1.1	ND	-	ND	-
12/29/89	ND	ND	ND	ND	ND	ND (1)
5/28/92	ND	ND	ND	ND	ND	0.003(2)
9/3/92	ND	ND	ND	ND	ND	0.12 (2)

- (1) Analysis Completed For Organic Lead
 (2) Analysis Completed For Total Lead

TABLE 3
 CUMULATIVE SUMMARY OF GROUNDWATER ANALYSES
 MONITORING WELL (MW-2)
 PACIFIC SUPPLY COMPANY

Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Xylene µg/L	Lead mg/L
10/14/88	11	23	20	-	16	-
12/29/89	4	200	6.7	ND	ND	0.22 (1)
5/28/92	8.9	550	48	ND	13	ND (2)
9/3/92	2.1	760	6.2	1.8	5.1	0.006 (2)

- (1) Analysis Completed For Organic Lead
 (2) Analysis Completed For Total Lead

TABLE 4
 CUMULATIVE SUMMARY OF GROUNDWATER ANALYSES
 MONITORING WELL (MW-3)
 PACIFIC SUPPLY COMPANY

Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Xylene µg/L	Lead mg/L
10/14/88	3.4	ND	ND	-	2.8	-
12/29/89	ND	ND	ND	ND	ND	.205 (1)
5/28/92	ND	0.8	0.5	ND	ND	.016 (2)
9/3/92	ND	ND	ND	ND	ND	0.033 (2)

- (1) Analysis Completed For Organic Lead
 (2) Analysis Completed For Total Lead



TABLE 5
 CUMULATIVE SUMMARY OF GROUNDWATER ANALYSES
 MONITORING WELL MW-4
 PACIFIC SUPPLY COMPANY

Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Xylene µg/L	Lead mg/L
10/14/88	4.6	1.2	ND	-	2.2	-
12/29/89	0.5	0.7	ND	ND	ND	ND (1)
5/28/92	0.27	8.8	1	ND	3.2	.030 (2)
9/3/92	0.20	4.5	4.4	ND	1.9	0.022 (2)

- (1) Analysis Completed For Organic Lead
 (2) Analysis Completed For Total Lead

TABLE 6
 CUMULATIVE SUMMARY OF GROUNDWATER ANALYSES
 MONITORING WELL MW-5
 PACIFIC SUPPLY COMPANY

Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Xylene µg/L	Lead mg/L
10/14/88	3.2	ND	ND	-	ND	-
12/29/89	ND	ND	ND	ND	ND	ND (1)
5/28/92	ND	ND	ND	ND	ND	.008 (2)
9/3/92	ND	ND	ND	ND	ND	0.034 (2)

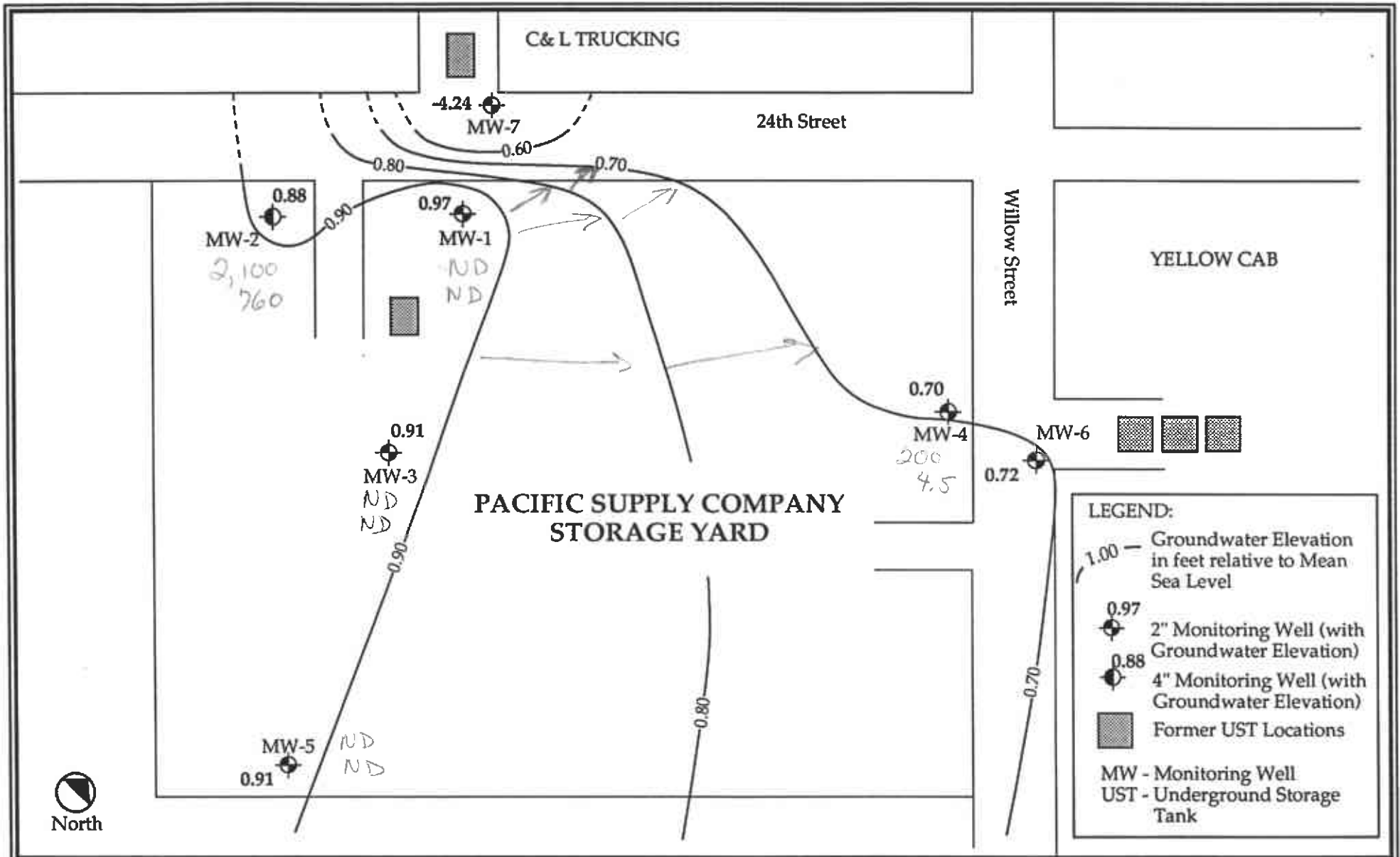
- (1) Analysis Completed For Organic Lead
 (2) Analysis Completed For Total Lead



TABLE 7
GROUNDWATER ELEVATION DATA
PACIFIC SUPPLY COMPANY

Location	Date of Reading	Elevation of Casing (ft above MSL)	Depth to Water (ft)	Groundwater Elevation (ft above MSL)
MW-1	9/3/92	8.87	7.90	0.97
MW-2	9/3/92	8.14	7.26	0.88
MW-3	9/3/92	9.13	8.22	0.91
MW-4	9/3/92	9.07	8.37	0.70
MW-5	9/3/92	8.93	8.02	0.91
MW-6	9/3/92	6.13	5.41	0.72
MW-7	9/3/92	5.03	9.27	-4.24





PROJECT NUMBER: 29.7
 PACIFIC SUPPLY COMPANY
 OAKLAND, CALIFORNIA

DRAWING NUMBER: 29.7-02

DRAWN BY: JBB 10/8/92

APPROVED BY: GE 10/12/92

SCALE: 1 Inch = 30 Feet

BRUNSIING ASSOCIATES, INC.

TPH-g (ppb) 9-3-92
 benz. (ppb)

FIGURE 1

SEPTEMBER 1992
 GROUNDWATER
 ELEVATION CONTOURS



BACE Analytical & Field Services, Inc.

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

FILE COPY

September 17, 1992
Log No: 1578

Brunsing Associates, Inc.
1735 Bayshore Road, Suite 2A
Redwood City, California 94063

ATTN: Joel Bruxvoort

RE: Results of the analyses of groundwater samples obtained for project number 29.7 on September 3, 1992.

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: Brunsing Associates, Inc.
Client Contact: Joel Bruxvoort

Page: 1 of 3

Sample Date: 9/3/92
Analysis Date: 9/9/92

BAFS Log No: 1578

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/L	Lab No: Descriptor:	Results - µg/L	
			1578-1 (MW - 1)	1578-2 (MW - 2)
Benzene	0.5		ND ✓	760 ✓
Toluene	0.5		ND ✓	6.2 ✓
Ethylbenzene	0.5		ND ✓	1.8 ✓
Xylene (total)	0.5		ND ✓	5.1 ✓
Dilution Factor:			1	20

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/L	Lab No: Descriptor:	Results - mg/L	
			1578-1 (MW - 1)	1578-2 (MW - 2)
TPH - gasoline	0.05		ND ✓	2.1 ✓
Dilution Factor:	1			

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

BACE Analytical
& Field Services, Inc.



Client: Brunsing Associates, Inc.
Client Contact: Joel Bruxvoort

Page: 2 of 3

Sample Date: 9/3/92
Analysis Date: 9/9/92

BAFS Log No: 1578

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/L	Lab No: Descriptor:	Results - µg/L	
			1578-3 (MW - 3)	1578-4 (MW - 4)
Benzene	0.5		ND ✓	4.5 ✓
Toluene	0.5		ND ✓	4.4 ✓
Ethylbenzene	0.5		ND ✓	ND
Xylene (total)	0.5		ND ✓	1.9 ✓

Dilution Factor: 1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/L	Lab No: Descriptor:	Results - mg/L	
			1578-3 (MW - 3)	1578-4 (MW - 4)
TPH - gasoline	0.05		ND ✓	0.20 ✓

Dilution Factor: 1

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

BACE Analytical
& Field Services, Inc.



Client: Brunsing Associates, Inc.
Client Contact: Joel Bruxvoort

Page: 3 of 3

Sample Date: 9/3/92
Analysis Date: 9/9/92

BAFS Log No: 1578

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit $\mu\text{g/L}$	Lab No: Descriptor:	Results - $\mu\text{g/L}$ 1578-5 (MW - 5)
Benzene	0.5		ND ✓
Toluene	0.5		ND ✓
Ethylbenzene	0.5		ND ✓
Xylene (total)	0.5		ND ✓

Dilution Factor: 1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/L	Lab No: Descriptor:	Results - mg/L 1578-5 (MW - 5)
TPH - gasoline	0.05		ND ✓

Dilution Factor: 1

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

BACE Analytical
& Field Services, Inc.



**SUMMARY OF
LABORATORY RESULTS ***

Pacific Supply - Project No. 29.7

Sampling Date	Lab Number	Descriptor	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylene ug/L	TPH (gasoline) mg/L
9/3/92	1578-1	MW - 1	ND	ND	ND	ND	ND
9/3/92	1578-2	MW - 2	760	6.2	1.8	5.1	2.1
9/3/92	1578-3	MW - 3	ND	ND	ND	ND	ND
9/3/92	1578-4	MW - 4	4.5	4.4	ND	1.9	0.20
9/3/92	1578-5	MW - 5	ND	ND	ND	ND	ND

** See original laboratory report dated 9/17/92
for complete results.*

QUALITY CONTROL SUMMARY

Client: Brunsing Associates, Inc.
Client Contract: Joel Bruxvoort
Sample Date: 9/3/92
Analysis Date: 9/9/92

BAFS Log No. : 1578

Parameter	% RECOVERY				
	CCV%*	Blank	Spike	Spike Dup	RPD
Benzene	96	ND	97	100	3.0
Toluene	96	ND	92	97	5.3
Ethylbenzene	96	ND	92	97	5.3
Xylene	100	ND	97	103	6.0
Gasoline	95	ND	87	93	6.7

* Continuous Calibration Verification Standard

Soel

*From: Linda
3 pages 1310*

Dean Aaland
BACE Geotechnical Inc.
930 Shiloh Road Bldg 44
PO Box 749
Windsor, CA 95492

Date: 09/22/1992
NET Client Acct No: 32500
NET Pacific Job No: 92.48070
Received: 09/03/1992

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. 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: 32500
Client Name: BACE Geotechnical Inc.
NET Job No: 92.48070

Date: 09/22/1992
Page: 2

Ref: Pacific Supply, Project No. 29.7

ANALYTE: Lead (GFAA)
METHOD: EPA 7421
REPORTING LIMIT: 0.002 mg/L

Lab No.	Descriptor	Date Taken	Results	Units
135676	MW 1L	09/03/1992	0.12	mg/L
135677	MW 2L	09/03/1992	0.006	mg/L
135678	MW 3L	09/03/1992	0.033	mg/L
135679	MW 4L	09/03/1992	0.022	mg/L
135680	MW 5L	09/03/1992	0.034	mg/L

Client Acct: 32500
Client Name: BACE Geotechnical Inc.
NET Job No: 92.48070

Date: 09/22/1992
Page: 3

Ref: Pacific Supply, Project No. 29.7

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verif Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Lead	0.002	mg/L	98	ND	104	102	<1