



August 26, 1996

Ms. Susan Hugo
Alameda County Health Care
Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

STID 1777

Re: 1150 Park Avenue, Emeryville, CA
STID #1777

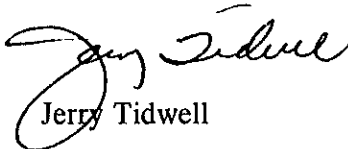
Dear Ms. Hugo:

Enclosed is the 2nd Quarter 1996 status report for the subject New Century Beverage Co. ground water investigation. This report addresses hydrocarbon occurrences beneath the subject property in the vicinity of two former fuel tanks operated by the New Century Beverage Co., as discussed in Weiss Associates' January 27, 1995 Remedial Action Plan. Two other hydrocarbon occurrences in ground water beneath the facility have been shown to be the responsibility of other parties. Pursuant to your August 7, 1995 letter, we will submit quarterly status reports on site activities for these two occurrences in the future.

I certify under penalty of perjury that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true and accurate, and I am in agreement with the conclusions and/or recommendations in the report. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please call Jim Ponton or Jeff Root of Weiss Associates at (510) 450-6000 if you have any questions or comments on the enclosed technical work plan.

Sincerely,
New Century Beverage Co.



Jerry Tidwell

Enc.
JDP/JJR

ENVIRONMENTAL
PROTECTION
96 AUG 26 PM 4: 08



cc: Paul Morici, Pepsi-Cola Corp.
Paul Milmed, Esq., White & Case

Mr. Ray Plock,
Raymond Plock & Associates
28 Craig Avenue
Piedmont, CA 94611-3702

Mr. David Harnish
1625 Portland Avenue
Berkeley, CA 94707

Indrajit Obeysekere, Esq.
Kaiser Foundation Hospitals, Inc.
1950 Franklin Street, 17th Floor
Oakland, CA 94612-2998

Mr. Steve P. Ronzone
Del Monte Foods
One Market Street
PO Box 193575
San Francisco, CA 94119-3575

Mr. Bern Baumgartner
CH2M Hill
1111 Broadway, Suite 1200
Oakland, CA 94607-4046

J:\newcent\0307\9605cvr.doc



August 23, 1996

Mr. Jerry Tidwell
Pepsi-Cola Corporation
29000 Hesperian Blvd.
Hayward, California 94545

Re: **Second Quarter 1996 Status Report**
1150 Park Avenue, Emeryville, CA
WA Project # 14-0307-19

Dear Mr. Tidwell:

This report documents the Second Quarter 1996 (April 1996 - June 1996) ground water monitoring activities conducted by Weiss Associates (WA) for the New Century Beverage Company site located at 1150 Park Avenue, Emeryville, California (Figure 1). In June 1996, WA measured water levels in all site wells and collected ground water samples from select site wells for hydrocarbon analysis. At the request of Susan Hugo, in addition to the usual ground water analyses, ground water samples from wells MW-5, -6, and -13 were analyzed for Polynuclear Aromatic Hydrocarbons (PNAs), to further characterize the diesel range detected in ground water. These activities are described below and a schedule for Third Quarter 1996 activities is also provided.

During the reporting period, ground water elevations and flow direction were generally consistent with historical data. Hydrocarbon concentrations in shallow ground water samples for this period are generally consistent with historical trends, and ranged up to 30 parts per million (ppm) total extractable hydrocarbons (TEH) in MW-5, and 1.6 ppm total volatile hydrocarbons (TVH) in MW-13. Trace concentrations of PNAs were detected in ground water samples analyzed from monitoring wells MW-5 and -13.

Water Level Measurements

On June 25, 1996, WA measured water levels in all onsite monitoring wells.

Historical water level measurements and calculated ground water elevations are shown on Table 1, and ground water elevation contours and estimated flow direction are shown on Figure 2.

Ground water level elevations decreased between 0.23 and 1.85 ft in all wells as compared to First Quarter 1996 ground water level elevations. Second Quarter 1996 ground water elevation data indicate that shallow ground water flowed generally southwestward on June 25, 1996. This southwestward ground water flow direction is consistent with historical data for the site.

ENVIRONMENTAL
PROTECTION
95 AUG 26 PM 4: 9
Recycled Paper

Mr. Jerry Tidwell
August 23, 1996

2

Ground Water Sampling and Analysis

On June 25, 1996, WA collected ground water samples for chemical analysis from monitoring wells MW-5, -6, -7, -8, -10, -11, -12, -13, and -14. At least three well volumes of ground water were purged from each well that did not purge dry, using dedicated PVC bailers. In these wells, the ground water pH, temperature and electrical conductivity were monitored until stabilization to ensure that a representative sample was collected. The samples were decanted from the dedicated PVC bailers into appropriate containers, and immediately refrigerated for shipment to Superior Laboratory (SPL), a State certified laboratory located in Martinez, California. A blind duplicate sample from monitoring well MW-13 was submitted for analysis as a quality control measure.

Ground water samples were analyzed for:

- Total volatile hydrocarbons as gasoline (TVH-G) for wells MW-5, -7, -8, -11, -12, -13, and -14 using the California Department of Health Services (DHS) Leaking Underground Fuel Tank (LUFT) Method (modified EPA Method 8015);
- Total extractable hydrocarbons (TEH) for wells MW-5, -6, -7, -8, -10, -11, -12, -13, and -14 using the DHS LUFT Method (modified EPA Method 8015);
- Benzene, toluene, ethyl benzene, and total xylenes (BTEX) for wells MW-5, -6, -7, -8, -10, -11, -12, -13, and -14 using EPA Method 8020 (Purgeable Aromatic Compounds);
- Methyl Tertiary Butyl Ether (MTBE) for well MW-7 using EPA Method 8020, and
- Polynuclear Aromatic Hydrocarbons (PNAs) for wells MW-5, MW-6, and MW-13 using EPA Methods 8310/3510.

Analytic results are presented in Tables 2 and 3 along with historical results for the monitoring wells.

Analytic Results and Discussion

TVH-G were detected in monitoring wells MW-5, -12, and -13. TEH were detected in monitoring wells MW-5, -6, -7, -8, -10, -11, -12, -13, and -14. The hydrocarbons detected in wells MW-7, -8, -10, -11, and -14 was reported by SPL as a heavier hydrocarbon in the range of diesel, but not resembling a diesel fingerprint, a possible motor oil. No MTBE was reported in well MW-7.

BTEX compounds were detected in monitoring wells MW-5, -6, -12, and -13, on June 25, 1996. Benzene concentrations exceeding the 0.001 ppm maximum contaminant level (MCL) were

Mr. Jerry Tidwell
August 23, 1996

3

detected in wells MW-5, -12 and -13. Benzene isoconcentration contours for select site wells are presented on Figure 3.

No PNA's were detected in ground water from well MW-6 (Table 3). PNAs were detected in samples from wells MW-5, and -13. PNA concentrations in MW-5, and -13 ranged from 0.0003 ppm fluorene to 0.0041 ppm naphthalene.

To determine whether the PNAs detected in MW-5, and -13 originate from an upgradient source, ground water samples were collected from MW-1 and -2 on July 29, 1996 for analysis by EPA Method 8310/3510. The MW-1 and -2 analytic results will be reported in the Third Quarter 1996 Ground Water Status Report.

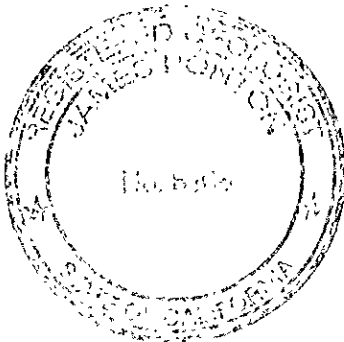
SCHEDULED THIRD QUARTER 1996 ACTIVITIES

WA will conduct the Third Quarter 1996 ground water sampling on or about September 19, 1996. Third Quarter 1996 activities will be reported by November 15, 1996.

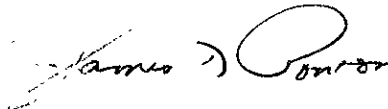
Mr. Jerry Tidwell
August 23, 1996

The field work presented in this report was conducted under the supervision of James D. Ponton, the Weiss Associates project manager for the New Century Beverage Company Emeryville, California, site.

Weiss Associates appreciates the opportunity to provide environmental consulting services to the New Century Beverage Company. Please call James D. Ponton or Jeff Root at (510) 450-6000 if you have any questions or comments regarding this report.



Sincerely,
Weiss Associates



James D. Ponton, R.G.
Project Geologist



J. Jeffrey Root, R.E.A.
Senior Project Manager

- Attachments:
- Figure 1. Site Location Map
 - Figure 2. Ground Water Elevation Contours and Estimated Flow Direction - June 25, 1996
 - Figure 3. Benzene Isoconcentration Contour - June 25, 1996
 - Table 1: Historical Ground Water Elevations
 - Table 2: Ground Water Analytical Results
 - Table 3: Polynuclear Aromatic Hydrocarbons in Ground Water
 - Attachment A - Analytical Reports and Chain-of-Custody

- cc:
- Paul Morici, Pepsi-Cola Corporation, 1 Pepsi Way, MD 850, Somers, NY 10589
 - Raymond Plock, Raymond Plock & Associates, 28 Craig Avenue, Piedmont, CA 94611
 - David Harnish, 1625 Portland Avenue, Berkeley, CA 94707
 - Bern Baumgartner, CH2MHill, 1111 Broadway, Suite 1200, Oakland, CA 94607-4046
 - Steven P. Ronzone, Del Monte Foods, One Market St., PO Box 193575, San Francisco, CA 94119-3575
 - Mark Zemelmann, Esq., Kaiser Foundation Hospitals, Inc., 1950 Franklin Street, 17th Floor, Oakland, CA 94612

FIGURES

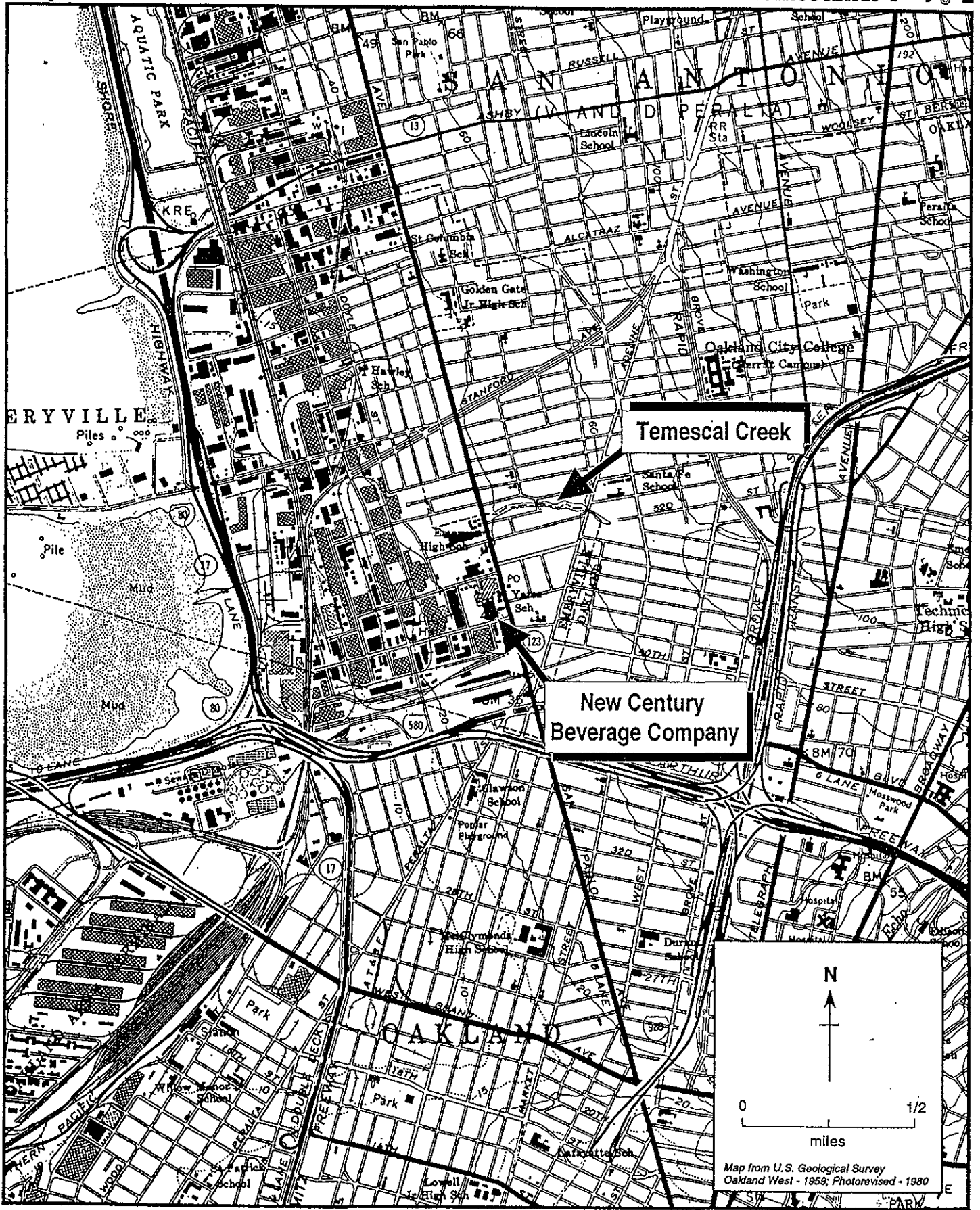
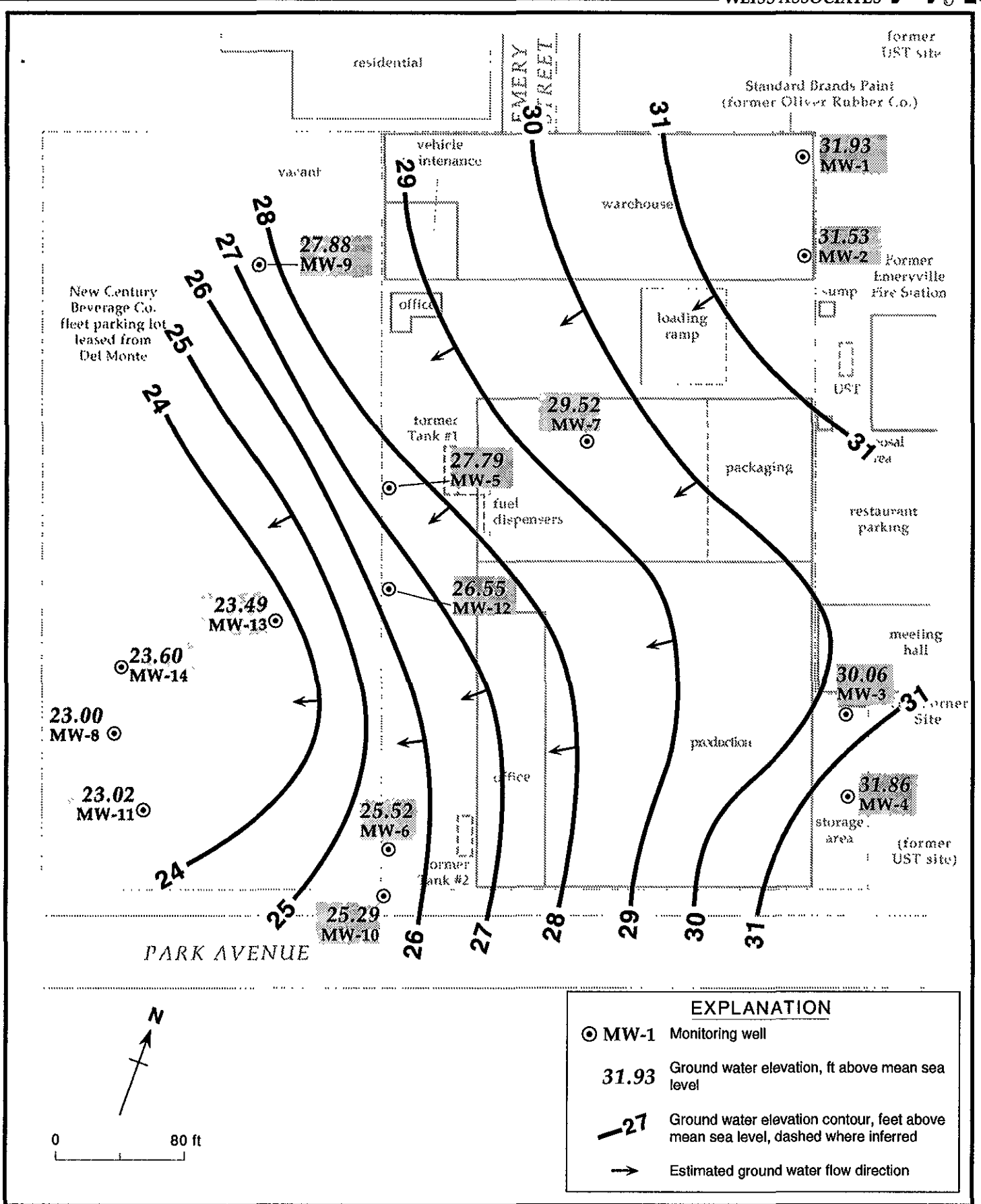


Figure 1. Site Vicinity Map - New Century Beverage Company, 1150 Park Avenue, Emeryville, California



EXPLANATION	
⊙ MW-1	Monitoring well
31.93	Ground water elevation, ft above mean sea level
-27	Ground water elevation contour, feet above mean sea level, dashed where inferred
→	Estimated ground water flow direction

Figure 2. Ground Water Elevation Contours and Estimated Flow Direction - June 25, 1996 - New Century Beverage Company, 1150 Park Avenue, Emeryville, California

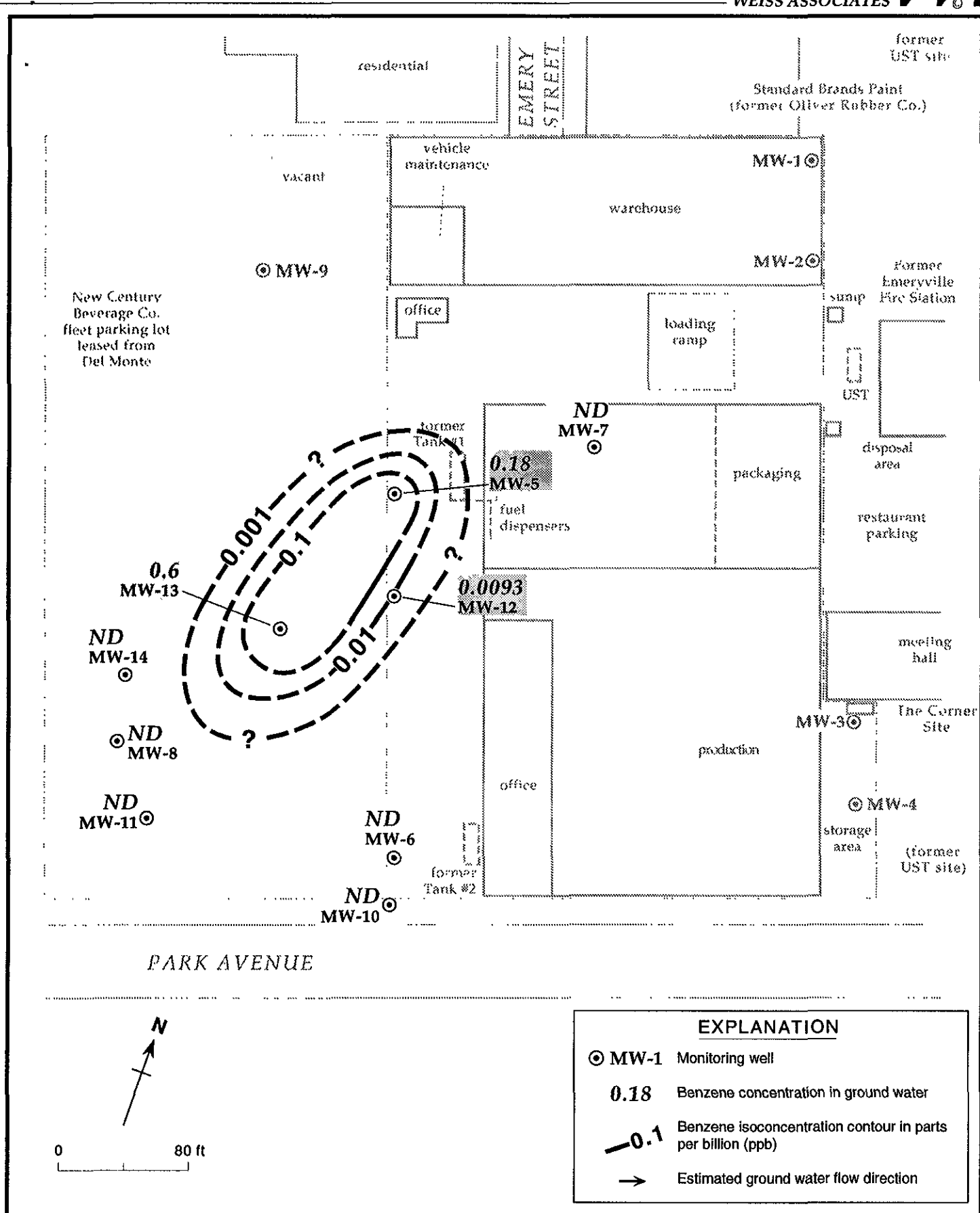


Figure 3. Benzene Isoconcentration Contours in Ground Water - June 25, 1996 - New Century Beverage Company, 1150 Park Avenue, Emeryville, California

TABLES

Table 1. Historical Ground Water Elevations - New Century Beverage Co., 1150 Park Avenue, Emeryville, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-1	03/27/94	38.74	5.90	32.84
	03/29/94		5.89	32.85
	04/15/94		6.24	32.50
	05/20/94		5.79	32.95
	02/28/95		5.13	33.61
	06/27/95		7.69	31.05
	09/21/95		8.25	30.19
	12/20/95		5.94	32.80
	03/27/96		4.96	33.78
	06/25/96		6.81	31.93
MW-2	03/27/94	38.87	6.57	32.30
	03/29/94		6.58	32.29
	04/15/94		6.86	32.01
	05/20/94		6.45	32.42
	02/28/95		5.64	33.23
	06/27/95		7.34	31.53
	09/21/95		8.80	30.07
	12/20/95		6.81	32.06
	03/27/96		5.78	33.09
	06/25/96		7.34	31.53
MW-3	03/29/94	40.79	10.69	30.10
	04/15/94		10.90	29.89
	05/20/94		10.81	29.98
	02/28/95		10.35	30.44
	06/27/95		10.43	30.36
	09/21/95		10.65	30.14
	12/20/95		10.65	30.14
	03/27/96		10.50	30.29
	06/25/96		10.73	30.06
	MW-4		03/27/94	40.15
03/29/94		8.21	31.94	
04/15/94		8.78	31.37	
05/20/94		8.54	31.61	
02/28/95		7.71	32.44	
06/27/95		7.90	32.25	
09/21/95		8.50	31.65	

Table 1. Historical Ground Water Elevations - New Century Beverage Co., 1150 Park Avenue, Emeryville, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-4 (cont.)	12/20/95		8.05	32.10
	03/27/96		7.74	32.41
	06/25/96		8.29	31.86
MW-5	03/27/94	36.49	8.02	28.47
	03/29/94		7.93	28.56
	04/15/94		8.10	28.39
	05/20/94		7.88	28.61
	10/20/94		9.45	27.04
	02/28/95		7.57	28.92
	06/27/95		8.99	27.50
	09/21/95		9.56	26.91
	12/20/95		9.02	27.47
	03/27/96		7.60	28.89
	06/25/96		8.70	27.79
MW-6	03/27/94	35.52	9.60	25.92
	03/29/94		9.59	25.93
	04/15/94		9.64	25.88
	05/20/94		9.47	26.05
	10/20/94		10.51	25.01
	02/28/95	35.53 ¹	8.54	26.99
	06/27/95		10.02	25.51
	09/21/95		10.47	25.05
	12/20/95 ^a		---	---
	03/27/96 ^b		9.01	---
	06/25/96	35.48²	9.96	25.52
MW-7	03/27/94	37.53	7.25	30.28
	03/29/94		7.27	30.26
	04/15/94		7.47	30.06
	05/20/94		7.25	30.28
	10/20/94		8.87	28.66
	02/28/95		6.89	30.64
	06/27/95		7.90	29.63
	09/21/95		8.81	28.72
	12/20/95		7.10	30.43
	03/27/96		6.67	30.86
	06/25/96		8.01	29.52

Table 1. Historical Ground Water Elevations - New Century Beverage Co., 1150 Park Avenue, Emeryville, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-8	04/05/94	33.11	9.03	24.08
	04/15/94		8.94	24.17
	05/20/94		8.70	24.41
	10/20/94		10.00	23.11
	02/28/95		8.48	24.63
	06/27/95		9.64	23.47
	09/21/95		9.83	23.28
	12/20/95		8.80	24.31
	03/27/96		8.83	24.28
	06/25/96		10.11	23.00
MW-9	04/05/94	36.06	7.60	28.46
	04/15/94		7.60	28.46
	05/20/94		7.39	28.67
	02/28/95		6.85	29.21
	06/27/95		8.31	27.75
	09/21/95		8.75	27.31
	12/20/95		7.73	28.33
	03/27/96		7.48	28.58
			06/25/96	
MW-10	10/20/94	35.03	10.14	24.89
	02/28/95		8.98	26.05
	06/27/95		9.59	25.44
	09/21/95		10.00	25.03
	12/20/95		8.88	26.15
	03/27/96		8.98	26.05
			06/25/96	
MW-11	10/20/94	32.74	9.71	23.03
	02/28/95		7.66	25.08
	06/27/95		8.86	23.88
	09/21/95		9.44	23.30
	12/20/95		8.81	23.93
	03/27/96		8.07	24.67
			06/25/96	
MW-12	10/20/94	36.18	12.66	23.52
	02/28/95		7.60	28.58

Table 1. Historical Ground Water Elevations - New Century Beverage Co., 1150 Park Avenue, Emeryville, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-12 (cont.)	06/27/95		9.56	26.62
	09/21/95		10.17	26.01
	12/20/95		8.19	27.99
	03/27/96		8.66	27.52
	06/25/96		9.63	26.55
MW-13	02/28/95	34.65	8.72	25.93
	06/27/95		8.99	25.66
	09/21/95		10.37	24.28
	12/20/95		10.20	24.45
	03/27/96		9.22	25.43
	06/25/96		11.16	23.49
MW-14	06/27/95	33.68	9.88	23.80
	09/21/95		10.07	23.61
	12/20/95		9.02	24.66
	03/27/96		9.15	24.53
	06/25/96		10.08	23.60

Notes:

¹ Resurveyed 3/13/95.

² Resurveyed 5/3/96 by PLS Surveys, Inc., Alameda, CA.

^a Well MW-6 damaged by excavation, therefore no water level was taken at MW-6 on 12/20/95.

^b Well MW-6 was repaired 1/5/96. Well MW-6 top-of-casing elevation will be resurveyed during 5/96. No ground water elevation calculated at well on 3/27/96.

Table 2. Ground Water Analytical Results - New Century Beverage Co., 1150 Park Avenue, Emeryville, California

Well/ Boring ID	Date Sampled	TVH-G	TEH	Benzene	Toluene	Ethyl- benzene Xylenes 1,2-DCA PCE				Other HVOCs	MTBE
						parts per million (mg/L)					
MW-1	03/29/94	ND	ND (1)	ND	ND	ND	ND	ND	ND	ND	---
	05/20/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
MW-2	03/29/94	2.4	37 (D)	0.017	ND (0.001)	0.005	0.015	ND	ND	ND	---
	05/20/94	1.9	6.7	0.021	0.0086	0.0061	0.0059	ND	ND	ND	---
MW-3	03/29/94	ND	ND (1)	ND	ND	ND	ND	ND	ND	ND	---
	05/20/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
MW-4	03/29/94	0.13	ND (1)	ND	ND	ND	ND	ND	ND	0.017 CB	---
	05/20/94	0.22	^b	0.0006	0.0015	0.0011	0.0035	ND	ND	0.004 1,2-DCB	---
	06/01/94	---	ND	---	---	---	---	---	---	0.017 CB	---
MW-5 split ^d	03/29/94	2.1	30 (K)	0.39	ND (0.003)	ND (0.003)	0.18	ND	ND	ND	---
	05/20/94	2.3	2.7 (D)	0.49	0.005	0.033	0.23	ND	ND	ND	---
	10/20/94	0.77	9(K)	0.23	ND(0.001)	0.019	0.077	---	---	---	---
	10/20/94	---	ND	---	---	---	---	---	---	---	---
	02/28/95	1.2	3.6 (D)	0.33	0.0016	0.041	0.013	---	---	---	---
	06/27/95	0.72	2.1 (D)	0.28	ND	ND	ND	---	---	---	ND
	09/21/95	0.71	3.5 ^s	0.24	0.0021	0.045 ^j	ND	---	---	---	---
	12/20/95	0.86	6.10 ^s	0.28	0.003	0.039	0.0059	---	---	---	---
	03/27/96	1.6 ^s	7.5 ^s	0.38	0.0008	0.0017	0.031	---	---	---	---
	05/22/96 ⁿ	---	---	0.27	0.0045	0.0026	0.01	---	---	---	---
	06/25/96	0.75	30 ^p	0.18	0.0018	ND	0.0058	---	---	---	---
MW-6 split ^e	03/29/94	ND	5 (D)	ND	ND	ND	ND	ND	ND	ND	---
	05/20/94	ND	2.4 (D)	ND	ND	ND	ND	ND	ND	ND	---
	10/20/94	0.055	ND	ND	ND	0.0021	0.0024	---	---	---	---
	10/20/94	---	0.27 (D)	---	---	---	---	---	---	---	---
	02/28/95	---	0.78 (D)	ND	ND	ND	ND	---	---	---	---
	06/27/95	ND	0.51 (D)	ND	ND	ND	ND	---	---	---	ND
09/21/95	---	0.96 ^{s,h}	ND	ND	ND	ND	---	---	---	---	
12/20/95 ^k	---	---	---	---	---	---	---	---	---	---	



Table 2. Ground Water Analytical Results - New Century Beverage Co., 1150 Park Avenue, Emeryville, California (continued)

Well/ Boring ID	Date Sampled	TVH-G	TEH	Benzene	Toluene	Ethyl- benzene	Xylenes	1,2-DCA	PCE	Other HVOCs	MTBE	parts per million (mg/L)										
												←-----										
MW-6 (cont.)	03/27/96	---	1.5 ^{ab}	0.0009	ND	ND	ND	---	---	---	---	---										
	05/22/96 ^a	---	---	ND	ND	ND	ND	---	---	---	---	---										
	06/25/96	ND	1.3 ^a	ND	ND	ND	ND	---	---	---	---	---										
MW-7 dup split ^a dup	03/29/94	0.16	ND (1)	ND	ND	ND	ND	ND	ND	ND	---	---										
	03/29/94	ND	ND (1)	ND	ND	ND	ND	ND	ND	ND	---	---										
	05/20/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---										
	05/20/94	ND	ND	ND	ND	ND	ND	ND (0.0005)	ND (0.0005)	ND	---	---										
	05/20/94	ND	^b	ND	ND	ND	ND	ND	ND	ND	---	---										
	06/01/94	---	ND	---	---	---	---	---	---	---	---	---										
	10/20/94	ND	ND	ND	ND	ND	ND	---	---	---	---	---										
	02/28/95	ND	ND	ND	ND	ND	ND	---	---	---	---	---										
	06/27/95	ND	ND	ND	ND	ND	ND	---	---	---	---	ND										
	09/21/95	ND	0.110 ^b	ND	ND	ND	ND	---	---	---	---	ND										
	12/20/95	ND	ND	ND	ND	ND	ND	---	---	---	---	---										
	03/27/96	ND	ND	ND	ND	ND	ND	---	---	---	---	ND										
	06/25/96	ND	0.1 ^f	ND	0.0032	ND	0.0006	---	---	---	---	ND										
MW-8 split ^a split ^c	04/05/94	ND	ND (1)	ND	ND	ND	ND	ND	ND	ND	---	---										
	04/05/94	ND(0.01)	ND (1)	ND(0.0003)	0.0004	ND(0.0003)	ND(0.0003)	ND	ND	ND	---	---										
	05/20/94	ND	ND ^c	ND	ND	ND	ND	ND	ND	ND	---	---										
	10/20/94	ND	ND	ND	ND	ND	ND	---	---	---	---	---										
	10/20/94	---	ND	---	---	---	---	---	---	---	---	---										
	02/28/95	ND	ND	ND	ND	ND	ND	---	---	---	---	---										
	06/27/95	ND	ND	ND	ND	ND	ND	---	---	---	---	ND										
	09/21/95	ND	ND	ND	ND	ND	ND	---	---	---	---	---										
	12/20/95	ND	ND	ND	ND	ND	ND	---	---	---	---	---										
	03/27/96	ND	ND	ND	ND	ND	ND	---	---	---	---	---										
06/25/96	ND	0.06 ^f	ND	ND	ND	ND	---	---	---	---	---											
MW-9	04/05/94	ND	ND (1)	ND	ND	ND	ND	ND	ND	ND	---	---										
	05/20/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---										
MW-10 split ^c	10/20/94	ND	ND	ND	ND	ND	ND	---	---	---	---	---										
	10/20/94	---	ND	---	---	---	---	---	---	---	---	---										
	02/28/95	---	ND	ND	ND	ND	ND	---	---	---	---	---										
MW-10 (cont.)	06/27/95	ND	ND	ND	ND	ND	ND	---	---	---	---	ND										
	09/21/95	---	ND	ND	ND	ND	ND	---	---	---	---	---										
	12/20/95	ND	ND	ND	ND	ND	ND	---	---	---	---	---										



Table 2. Ground Water Analytical Results - New Century Beverage Co., 1150 Park Avenue, Emeryville, California (continued)

Well/ Boring ID	Date Sampled	TVH-G	TEH	Benzene	Toluene	Ethyl- benzene	Xylenes	1,2-DCA	PCE	Other HVOCs	MTBE	
←----- parts per million (mg/L) ----->												
MW-11 split ^d	03/27/96	---	ND	ND	ND	ND	ND	---	---	---	---	
	06/25/96	---	0.07^r	ND	ND	ND	ND	---	---	---	---	
	10/20/94	ND	ND	ND	ND	ND	ND	---	---	---	---	
	10/20/94	ND	ND	ND(0.0003)	ND(0.0003)	ND(0.0003)	ND	---	---	---	---	
	02/28/95	ND	ND	ND	ND	ND	ND	---	---	---	---	
	06/27/95	ND	ND	ND	ND	ND	ND	---	---	---	ND	
	09/21/95	ND	0.10 ^{g,i}	ND	ND	ND	ND	---	---	---	---	
	12/20/95	ND	ND	ND	ND	ND	ND	---	---	---	---	
	03/27/96	ND	ND	ND	ND	ND	ND	---	---	---	---	
06/25/96	ND	0.05^r	ND	ND	ND	ND	ND	---	---	---	---	
MW-12 split ^d	10/20/94	0.087	0.13(K)	0.0063	ND	0.0014	0.0027	---	---	---	---	
	10/20/94	0.057	ND	0.0073	ND(0.0003)	0.0016	0.0029	---	---	---	---	
	02/28/95	0.16	0.077 (K)	0.018	ND	0.0028	0.0027	---	---	---	---	
	06/27/95	ND	0.16 (K)	0.011	ND	ND	0.0009	---	---	---	ND	
	09/21/95	ND	0.14 ^{g,i}	0.0015	ND	ND	ND	---	---	---	---	
	12/20/95	2.8	0.61 ^{g,i}	0.420	0.018	0.170	0.500	---	---	---	---	
	03/27/96	0.5 ^g	0.38 ^g	0.05	0.0009	0.018	0.0051	---	---	---	---	
	05/22/96 ⁿ	---	---	0.034	ND	0.013	0.0051	---	---	---	---	
	06/25/96	0.12	0.35^{g,s}	0.0093	ND	0.0027	0.0013	---	---	---	---	
MW-13 dup	02/28/95	5.8	1.0 (K)	0.76	0.021	0.049	0.58	---	---	---	---	
	02/28/95	6.3	0.74 (K)	0.77	0.013	0.058	0.58	---	---	---	---	
	06/27/95	4.7	0.35 (K)	1.6	0.01	0.26	0.40	---	---	---	ND (0.036)	
	dup	06/27/95	3.8	0.32 (K)	2.0	ND (0.018)	0.27	0.39	---	---	ND (0.072)	
	09/21/95	4.1	0.34 ^{g,i}	1.1	0.0034	0.15	0.123	---	---	---	---	
	09/21/95	3.7	0.40 ^{g,i}	1.1	0.008	0.13	0.158	---	---	---	---	
	12/20/95	4.5	0.15 ^g	1.7	0.012	0.16	0.273	---	---	---	---	
	dup	12/20/95	3.5	0.59 ^{g,i}	1.2	0.013	0.086	0.258	---	---	---	---
	dup	03/27/96	4.8 ^g	0.23 ^g	0.98	0.0041	0.12	0.16	---	---	---	---
	03/27/96	4.3 ^g	0.39 ^g	1.1	0.0031	0.13	0.13	---	---	---	---	
MW-13 (cont.) dup	05/22/96 ⁿ	---	---	0.310	0.0011	0.039	0.016	---	---	---	---	
	06/25/96	1.6	0.48^{g,s}	0.6	0.0011	0.67	0.23	---	---	---	---	
	06/25/96	1.5	0.40^{g,s}	0.5	0.0014	0.64	0.23	---	---	---	---	
MW-14	06/27/95	ND	ND	ND	ND	ND	ND	---	---	---	ND	
	09/21/95	ND	ND	ND	ND	ND	ND	---	---	---	---	
	12/20/95	ND	0.120 ^g	ND	ND	ND	ND	---	---	---	---	



Table 2. Ground Water Analytical Results - New Century Beverage Co., 1150 Park Avenue, Emeryville, California (continued)

Well/ Boring ID	Date Sampled	TVH-G	TEH	Benzene	Toluene	Ethyl- benzene	Xylenes	1,2-DCA	PCE	Other HVOCs	MTBE
←----- parts per million (mg/L) ----->											
	03/27/96	ND	ND	0.0029	ND	ND	ND	---	---	---	---
	05/03/96 ^a	---	---	ND	ND	ND	ND	---	---	---	---
	05/07/96 ^e	---	---	ND	ND	ND	ND	---	---	---	---
	06/25/96	ND	0.07^f	ND	ND	ND	ND	---	---	---	---
Travel Blank	03/29/94	ND	---	ND	ND	ND	ND	ND	ND	ND	---
	04/05/94	ND	---	ND	ND	ND	ND	ND	ND	ND	---
	05/20/94	ND	---	ND	ND	ND	ND	ND	ND	ND	---
	10/20/94	ND	---	ND	ND	ND	ND	---	---	---	---
split ^d	10/20/94	ND	---	ND(0.0003)	ND(0.0003)	ND(0.0003)	ND	---	---	---	---
split ^c	10/20/94	ND	---	ND	ND	ND	ND	---	---	---	---
	03/27/96 ^m	---	---	ND	ND	ND	ND	---	---	---	---
Bailer Blank	03/29/94	ND	ND (1)	ND	ND	ND	ND	ND	ND	ND	---
	04/05/94	ND	ND (1)	ND	ND	ND	ND	ND	ND	ND	---
	05/20/94	ND	0.42 ^b	ND	ND	ND	ND	ND	ND	ND	---
	02/28/95	ND	ND	ND	ND	ND	ND	---	---	---	---
	06/27/95	ND	ND	ND	ND	ND	ND	---	---	---	ND
		0.05	0.05 (K,D)	0.0005	0.0005	0.0005	0.0005	0.001	0.001	0.001-0.02	0.002
MCL		NE	NE	0.001	0.1 ^f	0.68	1.75	0.0005	0.005	0.13 1,2-DCB ^f 0.03 CB	NE

Table 2. Ground Water Analytical Results - New Century Beverage Co., 1150 Park Avenue, Emeryville, California
(continued)

Abbreviations:

TVH-G = Total volatile hydrocarbons as gasoline detected by EPA Method 8015, modified by DHS note: Mineral spirits were also screened with this method for analyses prior to 10/20/94, however, all detectable TVH was characterized as gasoline.

TEH = Total extractable hydrocarbons [kerosene (K) and diesel (D)] detected by EPA Method 8015, modified per DHS notes: Hydraulic oil and motor oil were also screened with this method for analyses prior to 10/20/94, however, all detected TEH was characterized as kerosene or diesel. All reported kerosene-range TEH was characterized as a fraction of gasoline compounds by the analytical laboratory.

BTEX = Benzene, toluene, ethylbenzene, and xylenes.

HVOCs = Halogenated volatile organic compounds detected by EPA Method 8010

MTBE = Methyl-tert-butyl ether by EPA Method 8020

ND = Not detected at standard detection limit specified on the last row of the table

ND(n) = Not detected at detection limit of n ppm, due to dilution of sample prior to analysis

--- = Not analyzed

MCL = Maximum Contaminant Level for Drinking Water established by the California Department of Toxic Substances Control

NE = Not established

Notes:

Benzene, toluene, ethylbenzene, xylenes and MTBE were analyzed by EPA Method 8020.

Analyses performed by Curtis & Tompkins, Ltd. of Berkeley, CA except as noted (CA DHS certification # 1459)

a. Split duplicate analysis performed by GTEL Environmental Laboratories, Inc. of Concord, CA (CA DHS certification # E1075)

b. TEH as diesel was detected at 0.42 ppm in the bailer blank collected on 5/20/94, and similar concentrations were reported in well MW-4 (0.31 ppm) and MW-7 (0.45 ppm) samples. Since no TEH was detected in earlier MW-4 and MW-7 samples, this indicated the samples were contaminated with the sampling equipment. Samples were collected in wells MW-4 and MW-7 again on 6/01/94, and no TEH was detected in either sample, consistent with the 3/94 results.

Notes (cont.):

- c. Although no TEH as diesel, kerosene or motor oil was reported, the laboratory reported a single peak on the gas chromatogram that was identified as pentatriacontane (a nonhazardous alkaline or paraffin organic compound C₃₆H₇₄) using EPA Method 8270 (Gas chromatography with Mass spectrometry)
- d. Split duplicate analysis performed by WEST Laboratory of Sacramento, CA (CA DHS certification #1346)
- e. Split duplicate analysis performed by Superior Precision Analytical Laboratories, Inc. of Martinez, CA (CA DHS certification #1542)
- f. DTSC Recommended Action Level - no MCL established
- g. Sample exhibits fuel pattern that does not resemble standard
- h. Heavier hydrocarbons than indicated standard
- i. Lighter hydrocarbons than indicated standard
- j. Presence of this compound confirmed by second column; however, the confirmation concentration differed from the reported result by more than a factor of two
- k. Well MW-6 damaged by excavation. Not sampled 12/20/95. Repaired 1/5/96.
- l. Sample exhibits single unknown peak or peaks
- m. Sample analyzed after expiration of holding time.
- n. Analyses performed by Superior Analytical Laboratory, Martinez, California
- o. Analyses performed by Sequoia Analytical, Walnut Creek, California
- p. Lighter hydrocarbons were found in the range of diesel, but do not resemble a diesel fingerprint.
- q. The pattern of the chromatogram resembles a weathered, aged or degraded diesel petroleum hydrocarbon
- r. Heavier hydrocarbons were found in the range of diesel, but do not resemble a diesel fingerprint. Possible motor oil.
- s. Sample also contains gasoline



Table 3. Polynuclear Aromatic Hydrocarbons in Ground Water-New Century Beverage Co., 1150 Park Avenue Emeryville, California

Well ID	Date Sampled	Naphthalene	Fluoranthene	Fluorene	Pyrene
<-----parts per million----->					
MW-5	06/25/96	ND	0.0005	0.0034	0.0005
MW-6	06/25/96	ND	ND	ND	ND
MW-13	06/25/96	0.0041	ND	0.0003	ND

Notes:

ND = Not detected above laboratory detection limit.

ATTACHMENT A

**LABORATORY ANALYTIC REPORTS AND CHAIN-OF-CUSTODY FORMS
JUNE 25, 1996**



Superior

Analytical Laboratory

Weiss Associates
5500 Shellmound. Suite 100
Emeryville, CA 94608

Date: July 3, 1996

Attn: JIM PONTON

Laboratory Number : 21533

Project Number/Name : 14-0307-19

Dear JIM PONTON:

Attached is Superior Analytical Laboratory report for the samples received on June 26, 1996. This report has been reviewed and approved for release. Following the cover letter is the Case Narrative detailing sample receipt and analysis. Also enclosed is a copy of the original Chain-of-Custody record confirming receipt of samples.

Please note that any unused portion of the sample will be discarded after July 26, 1996, unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please contact our Laboratory at (510) 313-0850.

Sincerely,

Afsaneh Salimpour
Project Manager



Superior

Analytical Laboratory

CASE NARRATIVE

Weiss Associates
Project Number/Name: 14-0307-19
Laboratory Number: 21533

Sample Receipt

Twenty Four water samples were received by Superior Analytical Laboratory on June 26, 1996.

Cooler temperature was .5°C

No abnormalities were noted with sample receiving.

Sample Analysis

The samples were analysed for methods , 8015M, 8020, and 8310.

I / I



Superior

Analytical Laboratory

Weiss Associates
Attn: JIM PONTON

Project 14-0307-19
Reported on July 2, 1996

Polynuclear Aromatic Hydrocarbons by SW-846 Methods 8310/3510

Chronology

Laboratory Number 21533

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
2Q307-05	06/25/96	06/26/96	07/01/96	07/02/96	CG011.43	22
2Q307-06	06/25/96	06/26/96	07/01/96	07/02/96	CG011.43	23
2Q307-13	06/25/96	06/26/96	07/01/96	07/02/96	CG011.43	24

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CG011.43-01	Method Blank	MB	Water	07/01/96	07/01/96
CG011.43-02	Laboratory Spike	LS	Water	07/01/96	07/01/96
CG011.43-03	Laboratory Spike Duplicate	LSD	Water	07/01/96	07/01/96



Superior

Analytical Laboratory

Miss Associates
tn: JIM PONTON

Project 14-0307-19
Reported on July 2, 1996

Polynuclear Aromatic Hydrocarbons by SW-846 Methods 8310/3510

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
21533-22	2Q307-05	Water	1.0	-
21533-23	2Q307-06	Water	1.0	-
21533-24	2Q307-13	Water	1.0	-

RESULTS OF ANALYSIS

Compound	21533-22		21533-23		21533-24	
	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L	
Naphthalene	ND	2.0	ND	2.0	4.1	2.0
Acenaphthylene	ND	2.0	ND	2.0	ND	2.0
Acenaphthene	ND	2.0	ND	2.0	ND	2.0
Fluoranthene	0.5	0.1	ND	0.1	ND	0.1
Phenanthrene	ND	0.5	ND	0.5	ND	0.5
Anthracene	ND	0.5	ND	0.5	ND	0.5
Fluorene	3.4	0.2	ND	0.2	0.3	0.2
Pyrene	0.5	0.1	ND	0.1	ND	0.1
Chrysene	ND	0.1	ND	0.1	ND	0.1
Benzo (a) Anthracene	ND	0.1	ND	0.1	ND	0.1
Benzo (b) Fluoranthene	ND	0.05	ND	0.05	ND	0.05
Benzo (k) Fluoranthene	ND	0.05	ND	0.05	ND	0.05
Benzo (a) Pyrene	ND	0.05	ND	0.05	ND	0.05
Indeno (1, 2, 3) Pyrene	ND	0.1	ND	0.1	ND	0.1
Dibenzo (a, h) Anthracene	ND	0.1	ND	0.1	ND	0.1
Benzo (g, h, i) Perylene	ND	0.1	ND	0.1	ND	0.1

Surrogate Recoveries (%) <<

1-Fluoronaphthene	70	98	90
-------------------	----	----	----



Superior

Analytical Laboratory

Polynuclear Aromatic Hydrocarbons by SW-846 Methods 8310/3510

Quality Assurance and Control Data

Laboratory Number: 21533

Method Blank(s)

CG011.43-01

Conc. RL

ug/L

Naphthalene	ND	2.0
Acenaphthylene	ND	2.0
Acenaphthene	ND	2.0
Fluoranthene	ND	0.1
Phenanthrene	ND	0.5
Anthracene	ND	0.5
Fluorene	ND	0.2
Pyrene	ND	0.1
Chrysene	ND	0.1
Benzo (a) Anthracene	ND	0.1
Benzo (b) Fluoranthene	ND	0.05
Benzo (k) Fluoranthene	ND	0.05
Benzo (a) Pyrene	ND	0.05
Indeno (1, 2, 3) Pyrene	ND	0.1
Dibenzo (a, h) Anthracene	ND	0.1
Benzo (g, h, i) Perylene	ND	0.1

>> Surrogate Recoveries (%) <<

1-Fluoronaphthene 80



Superior

Analytical Laboratory

Polynuclear Aromatic Hydrocarbons by SW-846 Methods 8310/3510

Quality Assurance and Control Data

Laboratory Number: 21533

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
----------	--------------	-----------	------------	------------	----------	-------

For Water Matrix (ug/L)
 CG011.43 02 / 03 - Laboratory Control Spikes

Naphthalene	20	15/16	75/80	70-130	6
Acenaphthylene	20	16/16	80/80	70-130	0
Acenaphthene	20	16/16	80/80	70-130	0
Phenanthrene	20	17/18	85/90	70-130	6
Anthracene	20	17/17	85/85	70-130	0
Fluorene	20	16/17	80/85	70-130	6
Benzo (k) Fluoranthene	20	18/18	90/90	70-130	0

>> Surrogate Recoveries (%) <<

1-Fluoronaphthene			75/80	50-150	
-------------------	--	--	-------	--------	--

Definitions:

ND = Not Detected

L = Reporting Limit

A = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



Superior

Analytical Laboratory

Meiss Associates
Attention: JIM PONTON

Project 14-0307-19
Reported on July 3, 1996

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

Chronology

Laboratory Number 21533

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
2Q307-05	06/25/96	06/26/96	06/29/96	06/29/96	CF291.37	01
2Q307-08	06/25/96	06/26/96	06/29/96	06/29/96	CF291.37	02
2Q307-11	06/25/96	06/26/96	06/29/96	06/29/96	CF291.37	03
2Q307-12	06/25/96	06/26/96	06/29/96	06/29/96	CF291.37	04
2Q307-13	06/25/96	06/26/96	06/29/96	06/29/96	CF291.37	05
2Q307-14	06/25/96	06/26/96	06/30/96	06/30/96	CF291.37	06
2Q307-15	06/25/96	06/26/96	06/30/96	06/30/96	CF291.37	07
2Q307-06	06/25/96	06/26/96	06/28/96	06/28/96	CF281.37	08
2Q307-10	06/25/96	06/26/96	06/28/96	06/28/96	CF281.37	09
2Q307-07	06/25/96	06/26/96	06/28/96	06/28/96	CF281.37	10

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
CF281.37-06	Laboratory Spike	LS		Water	06/28/96	06/28/96
CF281.37-09	MW-7	MS	21527-05	Water	06/28/96	06/28/96
CF281.37-10	MW-7	MSD	21527-05	Water	06/28/96	06/28/96
CF291.37-02	Laboratory Spike	LS		Water	06/29/96	06/29/96
CF291.37-05	BLDG 908S.DECON 01	MS	21535-10	Water	06/29/96	06/29/96
CF291.37-06	BLDG 908S.DECON 01	MSD	21535-10	Water	06/29/96	06/29/96
CF281.37-04	Method Blank	MB		Water	06/28/96	06/28/96
CF291.37-01	Method Blank	MB		Water	06/29/96	06/29/96
CF281.37-07	Laboratory Spike	LS		Water	06/28/96	06/28/96
CF281.37-12	MW-7	MS	21527-05	Water	06/28/96	06/28/96
CF281.37-13	MW-7	MSD	21527-05	Water	06/28/96	06/28/96
CF291.37-03	Laboratory Spike	LS		Water	06/29/96	06/29/96
CF291.37-07	BLDG 908S.DECON 01	MS	21535-10	Water	06/29/96	06/29/96
CF291.37-08	BLDG 908S.DECON 01	MSD	21535-10	Water	06/29/96	06/29/96



Superior

Analytical Laboratory

Weiss Associates
Attn: JIM PONTON

Project 14-0307-19
Reported on July 3, 1996

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
21533-01	2Q307-05	Water	1.0	-
21533-02	2Q307-08	Water	1.0	-
21533-03	2Q307-11	Water	1.0	-
21533-04	2Q307-12	Water	1.0	-

RESULTS OF ANALYSIS

Compound	<i>MW 5</i> 21533-01		<i>MW 7</i> 21533-02		<i>MW 9</i> 21533-03		<i>MW 106</i> 21533-04	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L		ug/L	
Gasoline_Range	750	50	ND	50	ND	50	120	50
Benzene	180	0.5	ND	0.5	ND	0.5	9.3	0.5
Toluene	1.8	0.5	ND	0.5	ND	0.5	ND	0.5
Ethyl Benzene	ND	0.5	ND	0.5	ND	0.5	2.7	0.5
Total Xylenes	5.8	0.5	ND	0.5	ND	0.5	1.3	0.5
Methyl-t-butyl-ether								
Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	106		107		104		102	



Superior

Analytical Laboratory

Seiss Associates
Attention: JIM PONTON

Project 14-0307-19
Reported on July 3, 1996

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21533-05	2Q307-13	Water	1.0	-
21533-06	2Q307-14	Water	1.0	-
21533-07	2Q307-15	Water	1.0	-
21533-08	2Q307-06	Water	1.0	-

RESULTS OF ANALYSIS

Compound	21533-05		21533-06		21533-07		21533-08	
	Conc. ug/L	RL	Conc. ug/L	RL	Conc. ug/L	RL	Conc. ug/L	RL
Gasoline_Range	1600	50	ND	50	1500	50		
Benzene	600D	1.3	ND	0.5	500D	1.3	ND	0.5
Toluene	1.1	0.5	ND	0.5	1.4	0.5	ND	0.5
Ethyl Benzene	67	0.5	ND	0.5	64	0.5	ND	0.5
Total Xylenes	23	0.5	ND	0.5	23	0.5	ND	0.5
Methyl-t-butyl-ether								
> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	105		105		107		99	



Superior

Analytical Laboratory

Seiss Associates
Attention: JIM PONTON

Project 14-0307-19
Reported on July 3, 1996

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21533-09	2Q307-10	Water	1.0	-
21533-10	2Q307-07	Water	1.0	-

RESULTS OF ANALYSIS

Compound	<i>MW-10</i> 21533-09		<i>111-7</i> 21533-10	
	Conc.	RL	Conc.	RL
	ug/L		ug/L	
Gasoline_Range			ND	50
Benzene	ND	0.5	ND	0.5
Toluene	ND	0.5	3.2	0.5
Ethyl Benzene	ND	0.5	ND	0.5
Total Xylenes	ND	0.5	0.6	0.5
Methyl-t-butyl-ether			ND	5
> Surrogate Recoveries (%) <<				
Trifluorotoluene (SS)	107		111	



Superior

Analytical Laboratory

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

Quality Assurance and Control Data

Laboratory Number: 21533

Method Blank(s)

CF281.37-04	CF291.37-01
Conc. RL	Conc. RL
ug/L	ug/L

Gasoline_Range	ND	50	ND	50
Benzene	ND	0.5	ND	0.5
Toluene	ND	0.5	ND	0.5
Ethyl Benzene	ND	0.5	ND	0.5
Total Kxylenes	ND	0.5	ND	0.5
Methyl-t-butyl-ether	ND	5		

>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS)	69	111
-----------------------	----	-----



Superior

Analytical Laboratory

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

Quality Assurance and Control Data

Laboratory Number: 21533

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
----------	--------------	-----------	------------	------------	----------	-------

For Water Matrix (ug/L)
 CF281.37 06 / - Laboratory Control Spikes

Benzene		20	17	85	65-125	
Toluene		20	19	95	65-125	
Ethyl Benzene		20	20	100	65-125	
Total Xylenes		60	57	95	65-125	

> Surrogate Recoveries (%) <<

Trifluorotoluene (SS)				102	50-150	
-----------------------	--	--	--	-----	--------	--

For Water Matrix (ug/L)
 CF291.37 02 / - Laboratory Control Spikes

Benzene		20	17	85	65-125	
Toluene		20	19	95	65-125	
Ethyl Benzene		20	20	100	65-125	
Total Xylenes		60	56	93	65-125	

>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS)				100	50-150	
-----------------------	--	--	--	-----	--------	--

For Water Matrix (ug/L)
 CF281.37 07 / - Laboratory Control Spikes

Gasoline_Range		2000	2000	100	65-135	
----------------	--	------	------	-----	--------	--

For Water Matrix (ug/L)
 CF291.37 03 / - Laboratory Control Spikes

Gasoline_Range		2000	2100	105	65-135	
----------------	--	------	------	-----	--------	--



Superior

Analytical Laboratory

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

Quality Assurance and Control Data

Laboratory Number: 21533

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
----------	--------------	-----------	------------	------------	----------	-------

For Water Matrix (ug/L)
CF281.37 09 / 10 - Sample Spiked: 21527 - 05

Benzene	ND	20	18/18	90/90	65-125	0
Toluene	ND	20	21/20	105/100	65-125	5
Ethyl Benzene	ND	20	21/21	105/105	65-125	0
Total Xylenes	ND	60	60/58	100/97	65-125	3

>> Surrogate Recoveries (%) <<
Trifluorotoluene (SS)

96/100 50-150

For Water Matrix (ug/L)
CF291.37 05 / 06 - Sample Spiked: 21535 - 10

Benzene	ND	20	18/17	90/85	65-125	6
Toluene	0.9	20	20/20	96/96	65-125	0
Ethyl Benzene	ND	20	20/20	100/100	65-125	0
Total Xylenes	ND	60	56/55	93/92	65-125	1

>> Surrogate Recoveries (%) <<
Trifluorotoluene (SS)

105/100 50-150

For Water Matrix (ug/L)
CF281.37 12 / 13 - Sample Spiked: 21527 - 05

Gasoline_Range	ND	2000	2100/2100	105/105	65-135	0
----------------	----	------	-----------	---------	--------	---

For Water Matrix (ug/L)
CF291.37 07 / 08 - Sample Spiked: 21535 - 10

Gasoline_Range	ND	2000	2100/2100	105/105	65-135	0
----------------	----	------	-----------	---------	--------	---



Superior

Analytical Laboratory

Narrative:

- Due to a high concentration of benzene in the sample, benzene was quantitated based on a diluted amount and reporting limit was increased to 1.3 ppb.

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



Superior

Analytical Laboratory

Weiss Associates
Attn: JIM PONTON

Project 14-0307-19
Reported on July 3, 1996

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

Chronology

Laboratory Number 21533

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
2Q307-05	06/25/96	06/26/96	06/28/96	06/29/96	CF281.29	12
2Q307-06	06/25/96	06/26/96	06/28/96	06/28/96	CF281.29	13
2Q307-07	06/25/96	06/26/96	06/28/96	06/28/96	CF281.29	14
2Q307-08	06/25/96	06/26/96	06/28/96	06/29/96	CF281.29	15
2Q307-10	06/25/96	06/26/96	06/28/96	06/29/96	CF281.29	16
2Q307-11	06/25/96	06/26/96	06/28/96	06/29/96	CF281.29	17
2Q307-12	06/25/96	06/26/96	06/28/96	06/29/96	CF281.29	18
2Q307-13	06/25/96	06/26/96	06/28/96	06/29/96	CF281.29	19
2Q307-14	06/25/96	06/26/96	06/28/96	06/29/96	CF281.29	20
2Q307-15	06/25/96	06/26/96	06/28/96	06/29/96	CF281.29	21

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CF281.29-01	Method Blank	MB	Water	06/28/96	06/28/96
CF281.29-02	Laboratory Spike	LS	Water	06/28/96	06/28/96
CF281.29-03	Laboratory Spike Duplicate	LSD	Water	06/28/96	06/28/96



Superior

Analytical Laboratory

Miss Associates
tn: JIM PONTON

Project 14-0307-19
Reported on July 3, 1996

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21533-12	2Q307-05	Water	20.0	-
21533-13	2Q307-06	Water	1.0	-
21533-14	2Q307-07	Water	1.0	-
21533-15	2Q307-08	Water	1.0	-

RESULTS OF ANALYSIS

Compound	<i>MW-5</i> 21533-12		<i>MW-6</i> 21533-13		<i>MW-7</i> 21533-14		<i>MW-8</i> 21533-15	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L		ug/L	
Diesel:	ND	1000	1300W	50	ND	50	ND	50
Unknown Hydrocarbons	30000*	1000			100**	50	60**	50
>> Surrogate Recoveries (%) <<								
Tetracosane	78		108		117		120	



Superior

Analytical Laboratory

Miss Associates
Attention: JIM PONTON

Project 14-0307-19
Reported on July 3, 1996

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21533-16	2Q307-10	Water	1.0	-
21533-17	2Q307-11	Water	1.0	-
21533-18	2Q307-12	Water	1.0	-
21533-19 @	2Q307-13	Water	1.0	-

RESULTS OF ANALYSIS

Compound	<i>MW-10</i> 21533-16		<i>MW-11</i> 21533-17		<i>MW-12</i> 21533-18		<i>MW-13</i> 21533-19	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L		ug/L	
Diesel:	ND	50	ND	50	350W/@ 50		480W/@ 50	
Unknown Hydrocarbons	70**	50	50**	50				
>> Surrogate Recoveries (%) <<								
Tetracosane	111		110		130		108	



Superior

Analytical Laboratory

Seiss Associates
Attn: JIM PONTON

Project 14-0307-19
Reported on July 3, 1996

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
21533-20	2Q307-14	Water	1.0	-
21533-21	2Q307-15	Water	1.0	-

1111-1/
RESULTS OF ANALYSIS

Compound	21533-20 Conc. RL ug/L	21533-21 Conc. RL ug/L
Diesel:	ND 50	400W/@ 50
Unknown Hydrocarbons	70** 50	
>> Surrogate Recoveries (%) <<		
Tetracosane	118	116



Superior

Analytical Laboratory

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

Quality Assurance and Control Data

Laboratory Number: 21533
Method Blank(s)

CF281.29-01
Conc. RL
ug/L

Diesel:	ND	50
Unknown Hydrocarbons	ND	50

>> Surrogate Recoveries (%) <<

Tetracosane	77
-------------	----



Superior

Analytical Laboratory

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

Quality Assurance and Control Data

Laboratory Number: 21533

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
----------	--------------	-----------	------------	------------	----------	-------

For Water Matrix (ug/L)
CF281.29 02 / 03 - Laboratory Control Spikes

Diesel:		1000	820/1030	82/103	50-150	23
> Surrogate Recoveries (%) << Tetracosane				82/91	50-150	

- The pattern of the chromatogram resembles a weathered, aged, or degraded diesel petroleum hydrocarbon.

@ - Sample also contains gasoline.

* - Heavier hydrocarbons were found in the range of diesel, but do not resemble a diesel fingerprint. Possible motor oil.

- Lighter hydrocarbons were found in the range of diesel, but do not resemble a diesel fingerprint.

Definitions:

ND = Not Detected

L = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)

21533

WA Weiss Associates
 Environmental and Geologic Services
 5500 Shellmound Street, Emeryville, CA 94608
 Phone: 510-450-6000 Fax: 510-547-5043
 AguaTierra Associates Incorporated, DBA

Please send analytic results and a copy of the signed chain of custody form to:

Jim Ponton

Project ID: 14-0307-19

Personnel: _____
 Please Initial: JK
 Samples Stored in ice. Y
 Appropriate containers Y
 Samples preserved Y
 VOA's without headspace Y
 Comments: 1-4-96
 Analytic Method: LWFT 10020

- PLEASE INCLUDE QA/QC DATA IF BOX IS CHECKED.
- Specify analytic method and detection limit in report.
 - Notify us if there are any anomalous peaks in GC or other scans.
 - ANY QUESTIONS/CLARIFICATIONS: CALL US.

CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

Sampled by: Anni Kreml

Laboratory Name: Superior

No. of Containers	Sample ID	Container Type ¹	Sample Date	Vol ²	Fil ³	Ref ⁴	Preservative (specify)	Analyze for	Analytic Method	Turn ⁵	COMMENTS
3	2Q307-05	w/N	6/25/96	40ml	N	Y	HCP	TVH-G/BTEX	LWFT 10020	N	
	-08										
	-11										
	-12										
	-13										
	-14										
	-15										
	-06							BTEX			
	-10										
	-07							TVH-G/BTEX/MTBE			
	-16							Hold	Hold	Hold	Analyze for BTEX only if BTEX detected in 2Q307-07, -08, or -14.

Released by (Signature), Date 6/26/96

1 Weiss
Affiliation

2 Jim Ponton 6/26/96
Received by (Signature), Date

2 GAL
Affiliation

3 Jim Ponton 6/26/96
Released by (Signature), Date

3 GAL
Affiliation

4 _____
Shipping Carrier, Method, Date

4 _____
Affiliation

5 _____
Released by (Signature), Date

5 _____
Affiliation

6 Jim Ponton 6/26/96
Received by Lab Personnel, Date Seal intact? X

6 SAL 10:25
Affiliation, Telephone

1 Sample Type Codes: W = Water, S = Soil, Describe Other; Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B - Clear/Brown Glass, Describe Other; Cap Codes: PT = Plastic, Teflon Lined 2 = Volume per container; 3 = Filtered YY/N; 4 = Refrigerated (Y/N)
 5 Turnaround [N = Normal, W = 1 Week, R = 24 Hour, HOLD (write out)]

K:\OFFICE\FORMS\CHAINOC.DOC

Secured overnight

21533

WA Weiss Associates
 Environmental and Geologic Services
 5500 Shellmound Street, Emeryville, CA 94608
 Phone: 510-450-6000 Fax: 510-547-5043
 AguaTierra Associates Incorporated, DBA

Please send analytic results and a copy of the signed chain of custody form to:

Jim Ponton
Project ID: 14-0307-19

Lab Personnel: _____
 Please Initial: JFP
 Samples Stored in ice. Yes
 Appropriate containers No
 Samples preserved No
 VOA's without headspace W/A
 Comments: 1 = 5°C

- PLEASE INCLUDE QA/QC DATA IF BOX IS CHECKED.
- Specify analytic method and detection limit in report.
 - Notify us if there are any anomalous peaks in GC or other scans.
 - ANY QUESTIONS/CLARIFICATIONS: CALL US.

CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

Sampled by: Anni Kreml

Laboratory Name: Superior

No. of Containers	Sample ID	Container Type ¹	Sample Date	Vol ²	Fil ³	Ref ⁴	Preservative (specify)	Analyze for	Analytic Method	Turn ⁵	COMMENTS
1	ZQ307-05	W/B	6/25/96	1R	N	Y	None	TEH-D	LWFT	N	
	-06										
	-07										
	-08										
	-10										
	-11										
	-12										
	-13										
	-14										
	-15										
	-05							Polynuclear Aromatics	EPA 8100		
	-06										
	-13										

1 Anni Kreml 6/26/96
Released by (Signature), Date

1 Weiss
Affiliation

2 Anni Kreml 6/26/96
Received by (Signature), Date

2 GKL
Affiliation

3 Anni Kreml 6/26/96
Released by (Signature), Date

3 GKL
Affiliation

4 _____
Shipping Carrier, Method, Date

4 _____
Affiliation

5 _____
Released by (Signature), Date

5 _____
Affiliation

6 Jim Ponton SKL
Received by Lab Personnel, Date Seal intact?

6 6/26/96 10:25
Affiliation, Telephone

1 Sample Type Codes: W = Water, S = Soil, Describe Other; Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B - Clear/Brown Glass, Describe Other;
 Cap Codes: PT = Plastic, Teflon Lined 2 = Volume per container; 3 = Filtered YY/N; 4 = Refrigerated (Y/N)
 5 Turnaround [N = Normal, W = 1 Week, R = 24 Hour, HOLD (write out)]

3:OFFICE\FOR\ENCL\ANOC.DOC

secured overnight