

November 30, 1995

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

Re: 1150 Park Avenue, Emeryville, CA

STID #1777

Dear Ms. Hugo:

Enclosed is the 3rd Quarter 1995 status report for the subject New Century Beverage Co. ground water investigation. This report addresses 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. JT/jdp



cc: Mr. Paul Morici, Pepsi-Cola Corp.
Paul Milmed, Esq., White & Case
Mr. Ray Plock, Raymond Plock & Associates

Raymond Plock Raymond Plock and Associates 28 Craig Avenue Piedmont, CA 94611-3702

Indrajnt 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

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5500 Shellmound Street, Emeryville, CA 94608-2411

Fax: 510-547-5043 Phone: 510-450-6000

November 28, 1995

Mr. Jerry Tidwell New Century Beverage Company 1150 Park Avenue Emeryville, California 94608

> Re: Third Quarter 1995 Status Report 1150 Park Avenue, Emeryville, CA WA Project # 14-0307-09

Dear Mr. Tidwell:

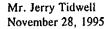
This report documents the Third Quarter 1995 (July 1995 - September 1995) ground water monitoring activities conducted by Weiss Associates (WA) for the New Century Beverage Company, 1150 Park Avenue, Emeryville, California (Figure 1). In September 1995, WA measured water levels in all site wells and collected ground water samples from selected site wells for hydrocarbon analysis. These activities are described below and a schedule for Fourth Quarter 1995 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 from not detected (ND) in monitoring wells MW-8, -10, and -14, to 3.5 parts per million (ppm) total extractable hydrocarbons (TEH) in MW-5, and 4.1 ppm total volatile hydrocarbons (TVH) in MW-12.

Benzene was detected in ground water samples collected from monitoring wells MW-5, MW-12, and MW-13 and appears to remain isolated to the small area around these three wells.

Water Level Measurements

On September 21, 1995, WA measured water levels in 14 site 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 about 0.19 ft to 1.46 ft in all site monitoring wells as compared to Second Quarter 1995 ground water level elevations reported on June 27, 1995. Third Quarter 1995 ground water elevation data indicate that shallow ground water flowed generally southwestward on September 21, 1995. This southwestward ground water flow direction is consistent with historical data for the site.



Weiss Associates

Ground Water Sampling and Analysis

On September 21, 1995, 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 Curtis and Tompkins, Ltd., a State-certified laboratory located in Berkeley, 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), and
- Methyl Tertiary Butyl Ether (MTBE) for well MW-7 using EPA Method 8020.

Analytic results are presented in Table 2 along with historical results for the monitoring wells. Figure 3 shows benzene isoconcentration contours for September 21, 1995.

Analytic Results and Discussion

No hydrocarbons were detected in wells MW-8 and -14, downgradient of former Tank No. 1, or in well MW-10 downgradient of former Tank No. 2. Low concentrations of TEH were detected in monitoring wells MW-7 and MW-11 at 0.11 ppm 0.10 ppm, respectively. BTEX compounds were detected in monitoring wells MW-5, -12, and -13 and the BTEX concentrations are consistent with historical data. Benzene concentrations exceeding the 0.001 ppm maximum contaminant level (MCL) remain isolated to a small area encompassing monitoring wells MW-5, -12 and -13 (Figure 3). No MTBE was reported in well MW-7.

Mr. Jerry Tidwell November 28, 1995



Scheduled Fourth Quarter 1995 Activities

WA will conduct the Fourth Quarter 1995 ground water sampling on or about December 20, 1995. Fourth Quarter 1995 activities will be reported by February 15, 1996. We expect that the remedial soil excavation described in our Remedial Action Plan and which began on October 20, 1995, will be completed during the Fourth Quarter 1995, and the results of the excavation will be reported to the Alameda County Health Care Services Agency (ACHCSA).

The field work presented in this report was conducted under the supervision of Jim 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 Jim 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

No. 6103

Figure 2. Ground Water Elevation Contours and Estimated Flow Direction - September 21, 1995

Figure 3. Benzene Isoconcentration Contour - September 21, 1995

Table 1: Historical Ground Water Elevations
Table 2: Ground Water Analytical Results

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 Indrajit Obeysekere, Esq., Kaiser Foundation Hospitals, Inc., 1950 Franklin Street, 17th Floor,

Oakland, CA 94612

David Harnish, Environ, 5820 Shellmound Street, Suite 700, Emeryville, CA 94608

JDP/JJR:mk

FIGURES



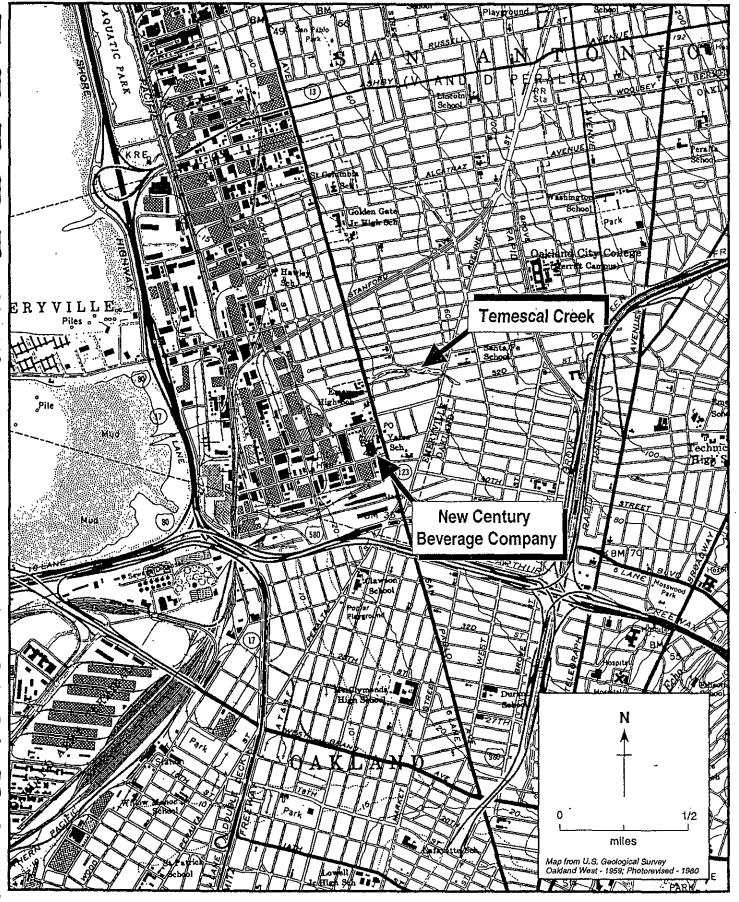


Figure 1. Site Vicinity Map - New Century Beverage Company, 1150 Park Avenue, Emeryville, California

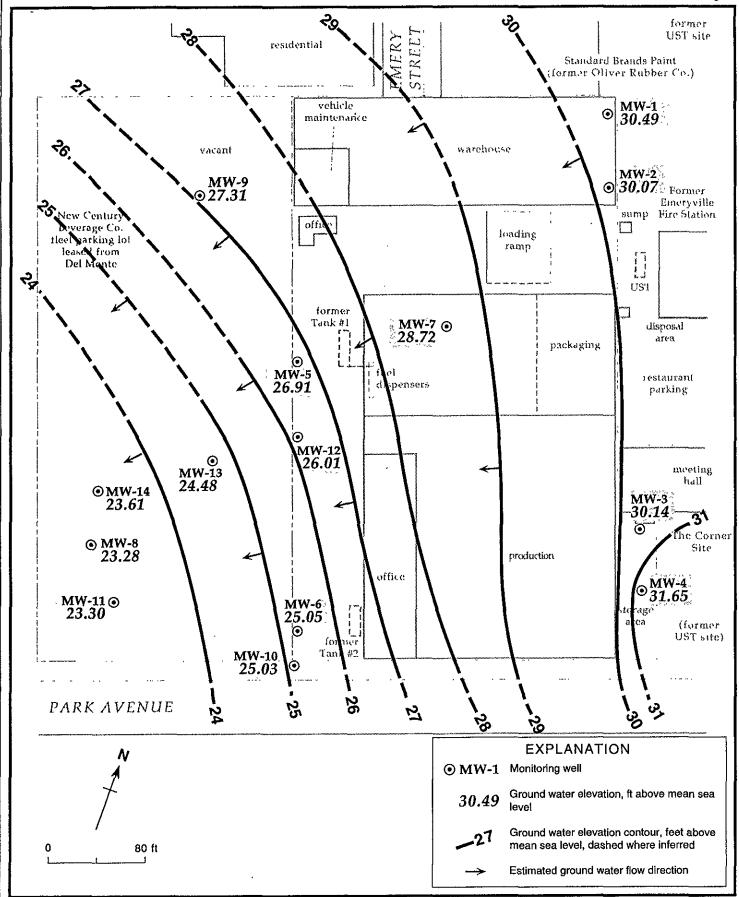


Figure 2. Ground Water Elevation Contours and Estimated Flow Direction - September 21, 1995 - New Century Beverage Company, 1150 Park Avenue, Emeryville, California

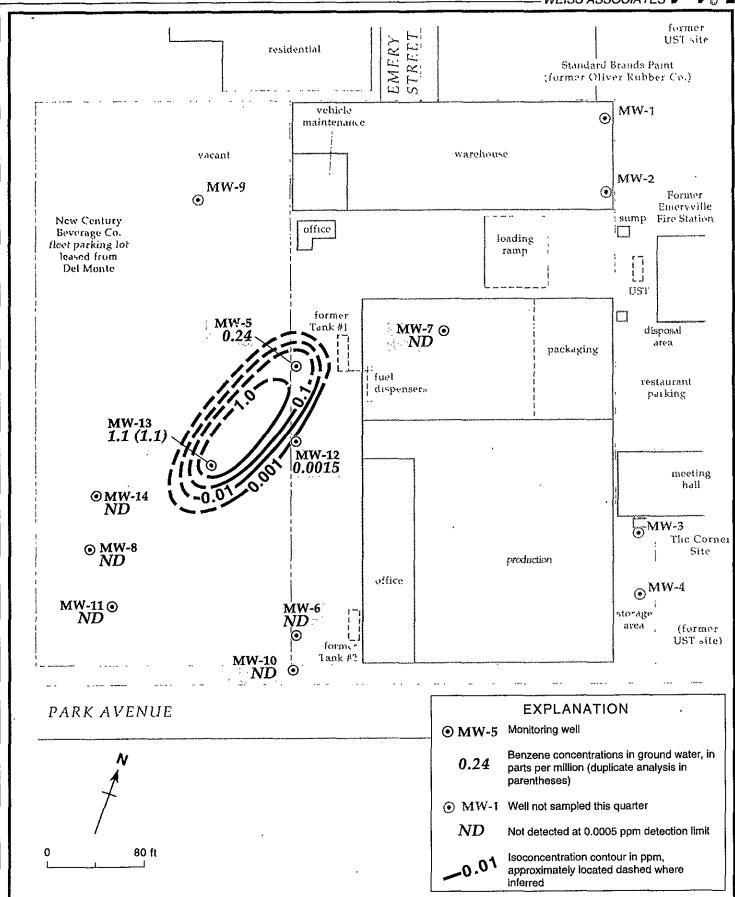


Figure 3. Benzene Isoconcentration Contours in Ground Water - September 21, 1995 - New Century Beverage Company, 1150 Park Avenue, Emeryville, California

TABLES

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

		Top-of-Casing		Ground Water
Well ID	Date	Elevation	Depth to Water	Elevation
		(ft above msl)	(ft)	(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
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	the second secon	8.80	30.07
MW-3	03/27/94	40.79	10.75	30.04
	03/29/94		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
MW-4	03/27/94	40.15	8.23	31.92
•••	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
MW-5	03/27/94	36.49	8.02	28.47
	03/29/94	20	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
MW-6	03/27/94	35.52	9.60	25.92
1AT AA -O	03/29/94	55.54	9.59	25.93
	04/15/94		9.59 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
		55.35	10.02	25.51
	06/27/95		10.02 10.47	25.05
	09/21/95		10.4/	43,03

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

		Top-of-Casing		Ground Water
Well ID	Date	Elevation (ft above msl)	Depth to Water (ft)	Elevation (ft above msl)
MW-7	03/27/94	37.53	7.25	30.28
IVI W - /	03/29/94	37.33	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
	10/20/94 02/28/95		6.89	30.64
			7.90	29.63
	06/27/95		8.81	29.63 28.72
NAME O	09/21/95	33.11	9.03	24.08
MW-8	04/05/94	33.11	9.03 8.94	24.08 24.17
	04/15/94		8.94 8.70	24.17 24.41
	05/20/94		10.00	23.11
	10/20/94		8.48	24.63
	02/28/95			
	06/27/95		9.64	23.47
	09/21/95		9,83	23.28
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
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
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
MW-12	10/20/94	36.18	12.66	23.52
	02/28/95		7.60	28.58
	06/27/95		9.56	26.62
	09/21/95		10.17	26.01
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
MW-14	06/27/95	33.68	9.88	23.80
	09/21/95		10.07	23.61

Notes:

¹Resurveyed 3/13/95

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Well/	Date		· · · · · · · · · · · · · · · · · · ·			Ethyl-		· · · · ·	···	Other	
Boring ID	Sampled	TVH-G	TEH	Benzene	Toluene	benzene	Xylenes	1,2- DCA	PCE	HVOCs	MTBE
		<				parts per millio	n (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	NĎ	ND	0.017 CB 0.004 1,2- DCB	
	05/20/94	0.22	ь	0.0006	0.0015	0.0011	0.0035	ND	ND	0.017 CB 0.005 1,2- DCB	
	06/01/94		ND							## *	
MW-5	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				
split ^d	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	3.58	0.24	0.0021	0.045	ND	***	****		
MW-6	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				
split ^e	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	, delan	0.96g,h	ND	ND	ND :	ND			was.	-
MW-7	03/29/94	0.16	ND (1)	ND	ND	ND	ND	ND	ND	ND	
dup	03/29/94	ND	ND (1)	ND	ND	ND	ND	ND	ND	ND	

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

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

Well/	Date					Ethyl-				Other	
Boring ID	Sampled	TVH-G	TEH	Benzene	Toluene	benzene	Xylenes	1,2-	PCE	HVOCs	MTBE
Ü	•							DCA			•
		<				parts per millio	on (mg/L)				>
										•	
	05/20/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	
split*	05/20/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	05.00.00		b					(0.0005)	(0.0005)		
dup	05/20/94	ND		ND	ND	ND	ND	ND	ND	ND	
dup	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 ^E	ND	ND	ND	ND		wan		ND `
MW-8	04/05/94	ND	ND (1)	ND	ND	ND	ND	ND	ND	ND	
split ^a	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°	ND	ND	ND	ND	ND	ND	ND	
	10/20/94	ND	ND	ND	ND	ND	ND				
split ^e	10/20/94		ND								
î	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		464.	,	,
MW-9	04/05/94	ND	ND (1)	ND	ND	ND	ND	ND	ND	ND	
1.1.	05/20/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	
									112	• • •	
MW-10	10/20/94	ND	ND	ND	ND	· ND	ND				
split ^e	10/20/94		ND			~					
	02/28/95		ND	ND	ND	ND	ND				
	06/27/95	ND	ND	ND	ND	ND	ND				ND
	09/21/95	m=m .	ND	ND	ND ·	ND	ND	- 44#	***		total .
MW-11	10/20/94	ND	ND	ND	ND	ND	ND				
split ^d	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	0.102,1	ND	ND	ND .	ND				

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

Well/	Date					Ethyl-				Other	
Boring ID	Sampled	TVH-G	TEH	Benzene	Toluene	benzene	Xylenes	1,2-	PCE	HVOCs	MTBE
								DCA			
						 parts per million 	n (mg/L)				>_
MW-12	10/20/94	0.087	0.13(K)	0.0063	ND	0.0014	0.0027				
split ^d	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	0.140 ^{g,1}	0.0015	ND	ND	ND		***	4	
MW-13	02/28/95	5.8	1.0 (K)	0.76	0.021	0.049	0.58				
dup	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	0.010	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	0.340 ^{g,1}	1.1	0.0034	0.15	0.123				-
dup	09/21/95	3.7	0.400 ^{g,i}	1.1	0.008	0.130	0.158		-	AT-	~~~
MW-14	06/27/95	ND	ND	ND	ND	ND	ND				ND
	09/21/95	ND	ND	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 ^e .	10/20/94	ND		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)

- 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.
- 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 alkane 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)
- 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



ATTACHMENT A

LABORATORY ANALYTIC REPORTS AND CHAIN-OF-CUSTODY FORMS SEPTEMBER 1995



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Weiss Associates 5500 Shellmound Street Emeryville, CA 94608

Date: 09-OCT-95
Lab Job Number: 122747
Project ID: 14-0307-09

Location: N/A

Reviewed by:

Reviewed by:

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Berkeley Irvine



LABORATORY NUMBER: 122747 CLIENT: WEISS ASSOCIATES PROJECT ID: 14-0307-09 DATE SAMPLED: 09/21/95 DATE RECEIVED: 09/22/95 DATE ANALYZED: 09/26/95 DATE REPORTED: 10/09/95

ANALYSIS: MTBE

ANALYSIS METHOD: EPA 8020

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
122747-003	307-07 MW	-7- ND	ug/L	2.0
METHOD BLANK	N/A	ND	ug/L	2.0

ND = Not detected at or above reporting limit.

TVH-Total Volatile Hydrocarbons

Weiss Associates Client: Project#: 14-0307-09

Analysis Method: CA LUFT (EPA 8015M)

Prep Method: EPA 5030

Sample #	Client	ID	Batch #	Sampled	Extracted	Analyzed	Moisture
122747-001	307-05	MW-5	23548	09/21/95	09/27/95	09/27/95	
122747-003		NW-7	23519	09/21/95	09/26/95	09/26/95	
122747-004	307-08	MN-B	23519	09/21/95	09/26/95	09/26/95	
122747-006	307-11	MW-11	23519	09/21/95	09/26/95	09/26/95	

		M	ω- <u>s-</u>	MW-7	MW-8	HW-11
Analyte Diln Fac:	Units	122747· 1	-001	122747-003 1	122747-004 1	122747-006 1
Gasoline	ug/L	710		<50	<50	<50
Surrogate						
Trifluorotoluene Bromobenzene	%REC %REC	96 140	*	98 89	103 92	101 85

^{*} Values outside of QC limits



TVH-Total Volatile Hydrocarbons

Client: Weiss Associates

Project#: 14-0307-09

Analysis Method: CA LUFT (EPA 8015M)

Prep Method: EPA 5030

Sample # C	lient ID	Batch #	Sampled	Extracted	Analyzed	Moisture
122747-007 30	07-12 NW-E	23519	09/21/95	09/26/95	09/26/95	
122747-008 30	07-13 MW-13	23519	09/21/95	09/27/95	09/27/95	
122747-009 30	07-15 MW-5	23519	09/21/95	09/27/95	09/27/95	
122747-010 3	07-14 MW-14	23548	09/21/95	09/27/95	09/27/95	

	MW-12	MW-13	4W -13 days	Mu-14
Units	122747-007 1	122747-008 1	122747-009 1	122747-010 1
ug/L	<50	4100	3700	<50
%REC %REC	102 89	103 122	104 120	102 105
	ug/L %REC	Units 122747-007 1 ug/L <50	Units 122747-007 122747-008 1 1 1 ug/L <50 4100	Units 122747-007 122747-008 122747-009 1 1 1 ug/L <50 4100 3700 *REC 102 103 104



BTXE

Client: Weiss Associates

Project#: 14-0307-09

Analysis Method: BTXE

Prep Method: EPA 5030

N. Ar III.a strongste Healithead A. Milat

Sample #	Client	ID	Batch #	Sampled	Extracted	Analyzed	Moisture
122747-001	307-05	MW-5	23548	09/21/95	09/27/95	09/27/95	
122747-002	307-06	AMU-Le	23519	09/21/95	09/26/95	09/26/95	
122747-003	307-07	MW-7	23519	09/21/95	09/26/95	09/26/95	
122747-004	307-08	MW-8	23519	09/21/95	09/26/95	09/26/95	

···	MW-5	MW-6	MW-7	MW-B
Units	122747-001	122747-002	122747-003	122747-004
	1	1	1	1
ug/L	240	<0.5	<0.5	<0.5
ug/L	2.1	<0.5	<0.5	<0.5
ug/L	45 C	<0.5	<0.5	<0.5
ug/L	<0.5	<0.5	<0.5	<0.5
ug/L	<0.5	<0.5	<0.5	<0.5
				
%REC	94	96	93	99
%REC	108	93	94	97
	ug/L ug/L ug/L ug/L ug/L	Units 122747-001 1 ug/L 240 ug/L 2.1 ug/L 45 C ug/L <0.5 ug/L <0.5	Units 122747-001 122747-002 1 1 ug/L 240 <0.5 ug/L 2.1 <0.5 ug/L 45 C <0.5 ug/L <0.5 <0.5 ug/L <0.5 <0.5 vg/L <0.5 <0.5	Units 122747-001 122747-002 122747-003 1 1 1 ug/L 240 <0.5 <0.5 ug/L 2.1 <0.5 <0.5 ug/L 45 C <0.5 <0.5 ug/L <0.5 <0.5 ug/L <0.5 <0.5 ug/L <0.5 <0.5 co.5 vg/L <0.5 <0.5 vg/L <0.5 <0.5 vg/L <0.5 <0.5 vg/L <0.5 <0.5

C: Presence of this compound confirmed by second column, however, the confirmation concentration differed from the reported result by more than a factor of two



BTXE

Client: Weiss Associates

Project#: 14-0307-09

Analysis Method: BTXE

Prep Method: EPA 5030

Sample #	Client	ID	Batch #	Sampled	Extracted	Analyzed	Moisture
122747-005	307-10	MW-10	23519	09/21/95	09/26/95	09/26/95	,
122747-006	307-11	MW-11	23519	09/21/95	09/26/95	09/26/95	
122747-007	307-12	MW-12	23519	09/21/95	09/26/95	09/26/95	
122747-008	307-13	MW-13	23548	09/21/95	09/27/95	09/27/95	

		NW-D	M w -11	MWIZ	MW73
Analyte	Units	122747-005	122747-006	122747-007	122747-008
Diln Fac:		1	1	1	1
Benzene	ug/L	<0.5	<0.5	1.5	1100
Toluene	ug/L	<0.5	<0.5	<0.5	3.4
Ethylbenzene	ug/L	<0.5	<0.5	<0.5	150
m,p-Xylenes	ug/L	<0.5	<0.5	<0.5	120
o-Xylene	ug/L	<0.5	<0.5	<0.5	3.6
Surrogate					
Trifluorotoluene	%REC	. 95	95	96	98
Bromobenzene	%REC	96	91	96	95

BTXE

Client: Weiss Associates

Project#: 14-0307-09

Analysis Method: BTXE

Prep Method: EPA 5030

Sample #	Client	ID	Batch #	Sampled	Extracted	Analyzed	Moisture
122747-009	307-15	MW-15	23548	09/21/95	09/27/95	09/27/95	
122747-010	307-14	NW-W	23548	09/21/95	09/27/95	09/27/95	

	MW	-1800	MW-14	
Units	122747-	-009	122747-010	
	1		1	
ug/L	1100		<0.5	
ug/L	8	С	<0.5	
ug/L	130		<0.5	
ug/L	150		<0.5	
ug/L	8		<0.5	
%REC	95		104	
%REC	96		101	
	ug/L ug/L ug/L ug/L ug/L	Units 122747- 1 ug/L 1100 ug/L 8 ug/L 130 ug/L 150 ug/L 8	Units 122747-009 1 ug/L 1100 ug/L 8 C ug/L 130 ug/L 150 ug/L 8	Units 122747-009 122747-010 1 1 ug/L 1100 <0.5 ug/L 8 C <0.5 ug/L 130 <0.5 ug/L 150 <0.5 ug/L 0.5 ug/L 8 <0.5

C: Presence of this compound confirmed by second column, however, the confirmation concentration differed from the reported result by more than a factor of two

Curtis & Tompkins, Ltd. Page 1 of 1

Lab #: 122747

Client:

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Analysis Method: CA LUFT (EPA 8015M) EPA 5030

Prep Method:

METHOD BLANK

Prep Date: 09/26/95 Matrix: Water 09/26/95 Analysis Date: 23519 Batch#: ug/L Units:

MB Lab ID: QC05255

Diln Fac: 1

Project#: 14-0307-09

Weiss Associates

Analyte	Result	,
Gasoline	<50	,
Surrogate	%Rec	Recovery Limits
Trifluorotoluene Bromobenzene	99 90	65-135 65-135



BATCH QC REPORT

BTXE

Client: Weiss Associates Analysis Method: BTXE

Project#: 14-0307-09 Prep Method: EPA 5030

METHOD BLANK

Matrix: Water Prep Date: 09/26/95 Batch#: 23519 Analysis Date: 09/26/95

Batch#: 23519 Analysis Date: 09/26/95
Units: ug/L
Diln Fac: 1

MB Lab ID: QC05255

Analyte	Result	
Benzene	<0.5	
Toluene	<0.5	
Ethylbenzene	<0.5	
m,p-Xylenes	<0.5	
o-Xylene	<0.5	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	100	75-125
Bromobenzene	103	75-125



BATCH QC REPORT

Page 1 of 1

		TVH-Total	. Volatile	Hydrocarbons		
Client: Project#:	Weiss Associates 14-0307-09			Analysis Method: Prep Method:	: CA LUFT (EPA EPA 5030	8015M)
		24.	METHOD BI	ANK:		4 ,
Matrix: Batch#: Units: Diln Fac:	Water 23548 ug/L 1			Prep Date: Analysis Date:	09/27/95 09/27/95	

MB Lab ID: QC05400

Analyte	Result	
Gasoline	<50	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene Bromobenzene	111 102	65-135 65-135

Curtis & Tompkins, Ltd.

Lab #: 122747 BATCH QC REPORT

Page 1 of 1

BTXE

Client: Weiss Associates

Project#: 14-0307-09

Analysis Method: BTXE

Prep Method:

EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water Batch#: 23519

Units: ug/L Diln Fac: 1 Prep Date: Analysis Date: 09/26/95 09/26/95

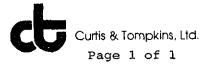
LCS Lab ID: QC05254

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	19.4	20	97	85-115
Toluene	19.4	20	97	85-115
Ethylbenzene	19.4	20	97	85-115
m,p-Xylenes	20.8	20	104	85 -115
o-Xylene	19.2	20	96	85-115
Surrogate	%Rec	Limits		
Trifluorotoluene	99	75-125		
Bromobenzene	102	75-125		

[#] Column to be used to flag recovery and RPD values with an asterisk

^{*} Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Client:

BATCH QC REPORT

BTXE

Analysis Method: BTXE

Prep Method: EPA 5030

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water
Batch#: 23519
Units: ug/L
Diln Fac: 1

Project#: 14-0307-09

Weiss Associates

Prep Date: 09/26/95 Analysis Date: 09/26/95

BS Lab ID: QC05256

Analyte	Spike Added	BS	%Rec #	Limits
Benzene	20	20.1	101	85-115
Toluene	20	19.6	98	85-115
Ethylbenzene	20	19.5	98	85-115
m,p-Xylenes	20	20.5	103	85-115
o-Xylene	20	19.1	96	85-115
Surrogate	%Rec	Limits		
Trifluorotoluene	96	75~125		
Bromobenzene	94	75~125		

BSD Lab ID: QC05257

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Benzene	20	19.3	97	85-115	4	<11
Toluene	20	19.1	96	85-115	3	<13
Ethylbenzene	20 .	19	95	85-115	3	<25
m,p-Xylenes	20	20.1	101	85-115	2	<25
o-Xylene	20	18.8	94	85-115	2	<25
Surrogate	₹Rec	Limit	cs			
Trifluorotoluene	94	75-12				
Bromobenzene	94	75-12	25			

[#] Column to be used to flag recovery and RPD values with an asterisk

^{*} Values outside of QC limits RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits



BATCH QC REPORT

Page 1 of 1

TVH-Total	Volatile Hydrocarbons	

Weiss Associates Client:

Project#: 14-0307-09

Analysis Method: CA LUFT (EPA 8015M)

Prep Method:

EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water Batch#: 23548 ug/L Units: Diln Fac: 1

Prep Date: Analysis Date:

09/27/95 09/27/95

LCS Lab ID: QC05399

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	2165	2006	108	75-125
Surrogate	%Rec	Limits		
Trifluorotoluene Bromobenzene	104 100	65-135 65-135		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits



BATCH QC REPORT

Page 1 of 1

BTXE

Client: Weiss Associates

Project#: 14-0307-09

Analysis Method: BTXE

Prep Method:

EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water Batch#: 23548

Units: ug/L Diln Fac: 1 Prep Date:

09/27/95

Analysis Date: 09/27/95

LCS Lab ID: QC05399

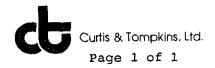
Analyte	Result	Spike Added	%Rec #	Limits
Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	19.6 20.8 21.1 38.4 21.3	20 20 20 40 20	98 104 106 96 107	85-115 85-115 85-115 85-115 85-115
Surrogate	%Rec	Limits		
Trifluorotoluene Bromobenzene	98 94	75-125 75-125		

[#] Column to be used to flag recovery and RPD values with an asterisk

^{*} Values outside of QC limits

spike Recovery: 0 out of 5 outside limits

BATCH QC REPORT



TVH-Total Volatile Hydrocarbons

Client: Weiss Associates Analysis Method: CA LUFT (EPA 8015M)

Project#: 14-0307-09 Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: 307-14 Sample Date: 09/21/95
Lab ID: 122747-010 Received Date: 09/22/95
Matrix: Water Prep Date: 09/27/95

Matrix: Water

Batch#: 23548

Units: ug/L

Diln Fac: 1

MS Lab ID: QC05401

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline	2006	<50.00	2025	101	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene Bromobenzene	103 107	65-135 65-135			

MSD Lab ID: QC05402

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline	2006	2067	103	75-125	2	<35
Surrogate	%Rec	Limi	ts		<u></u>	
Trifluorotoluene Bromobenzene	108 116	65~1 65~1				

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits RPD: O out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits



TEH-Tot Ext Hydrocarbons

Weiss Associates Client:

Project#: 14-0307-09

Analysis Method: CA LUFT (EPA 8015M)

LUFT Prep Method:

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
122747-001	307-05	23504	09/21/95	09/25/95	09/28/95	
122747-002		23504	09/21/95	09/25/95	09/28/95	
122747-003		23504	09/21/95	09/25/95	09/28/95	
122747-004	307-08	23504	09/21/95	09/25/95	09/29/95	

		MW-5	NW-60	MW-7	MN-8
Analyte Diln Fac:	Units	122747-001 1	122747-002 1	122747-003 1	122747-004
Diesel Range Motor Oil Range	ug/L ug/L	3500 Y <1300	960 YH <1300	110 Y <1300	<50 <1300
Surrogate					
Hexacosane	%REC	105	129	111	112

Y: Sample exhibits fuel pattern which does not resemble standard

H: Heavier hydrocarbons than indicated standard



TEH-Tot Ext Hydrogarbons

Client: Weiss Associates

Project#: 14-0307-09

Analysis Method: CA LUFT (EPA 8015M)

Prep Method: LUFT

Sample # Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
122747-005 307-10	23504	09/21/95	09/25/95	09/28/95	
122747-006 307-11	23504	09/21/95	09/25/95	09/28/95	
122747-007 307-12	23504	09/21/95	09/25/95	09/28/95	
122747-008 307-13	23504	09/21/95	09/25/95	09/28/95	

		NW-10	MW-11	NW-12	MW-13
Analyte Diln Fac:	Units	122747-005 1	122747-006 1	122747-007 1	122747-008 1
Diesel Range Motor Oil Range	ug/L ug/L	<50 <1300	100 YL <1300	140 YL <1300	340 YL <1300
Surrogate					
Hexacosane	%REC	118	126	116	108

Y: Sample exhibits fuel pattern which does not resemble standard

H: Heavier hydrocarbons than indicated standard

L: Lighter hydrocarbons than indicated standard



TEH-Tot Ext Hydrocarbons

Client:

Weiss Associates

Project#: 14-0307-09

Analysis Method: CA LUFT (EPA 8015M)

Prep Method:

LUFT

Sample # Clien	t ID Ba	tch # Sa	mpled Ex	xtracted 1	Analyzed .	Moisture
122747~009 307-1	5 2	3504 09	/21/95	09/25/95	09/28/95	
122747-010 307-1	4 2	3504 09	/21/95	09/25/95	09/28/95	

		MIV.	13 dus	MW.	- <i>1</i> Y
Analyte Diln Fac:	Units	122747- 1	009	122747-010 1	
Diesel Range Motor Oil Range	ug/L ug/L	400 <1300	YL	<50 <1300	
Surrogate					
Hexacosane	%REC	109		124	

- Y: Sample exhibits fuel pattern which does not resemble standard
- H: Heavier hydrocarbons than indicated standard
- L: Lighter hydrocarbons than indicated standard



BATCH QC REPORT

Page 1 of 1

	TEH-	Tot Ext Hydrocarbons	
Client: Project#:	Weiss Associates 14-0307-09	Analysis Method: (Prep Method:	CA LUFT (EPA 8015M) 3520
		METHOD BLANK	
Matrix: Batch#: Units: Diln Fac:	Water 23504 ug/L 1		09/25/95 09/27/95

MB Lab ID: QC05174

Analyte	Result	
Diesel Range Motor Oil Range	<50 <1300	
Surrogate	%Rec	Recovery Limits
Hexacosane	131	60-140



BATCH QC REPORT

Page 1 of 1

TEH-Tot Ext Hydrocarbons

Client: Weiss Associates

Project#: 14-0307-09

Analysis Method: CA LUFT (EPA 8015M)

Prep Method: 3520

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water Batch#: 23504 Units: ug/L Diln Fac: 1

Prep Date: 09/25/95 Analysis Date: 09/25/95

BS Lab ID: QC05175

Analyte	Spike Added	BS	%Rec #	Limits
Diesel Range	2565 2413	3	94	60-140
Surrogate	%Rec Li	Lmits	X.	
Hexacosane	143 60) - 140		

BSD Lab ID: QC05176

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Diesel Range	2565	2084	80	60-140	16	<35
Surrogate	%Rec	Limit	:s			
Hexacosane	143	60-14	10			

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

Weiss Associates Environmental and Geologic Services 5500 Shellmound Street, Emeryville, CA 94608 Phone: 510-450-8000 Febr. 510-547-5043 AguaTierre Associates Incorporated, DBA	of the signed ch	eytic results and a copy rain of custody form to: onto 4-0307-09	Lab	o Personnel:	1) Specify a detection 2) Notify us peaks in	malytic method an limit in report. if there are any GC or other scans	nd
CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRI	UCTIONS Laboratory Name:	CYT			US.	IONS/CLARIFICATIO	NS: CA
No. of Sample IO Container Sample Containers Type Date	Vol ² Fil ³ Ref ⁴	Preservative Ana (specify)	slyze for	, Analytic Method	Turn ⁵	COMMENTS	
3 307 -05 W/V 9/2/95	fool N Y			UFT/8020	<u>N</u>		
+ + -06 + -+	+++.	BTE					6.50
-67		IVH-G/	BTEX MTBE				ار موادم ارامو موادم ارامو
- 08		TVH-	G /BTEX				i marini
1 -10 1		BTE	× ,		T		
		TVH-0	G/BTEX			····	271.75
1 -12							74.834
- 13					- 		- 100
-15	T T T						i Arti
•T -14							SAN THE
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		7100		NOCO		· · · · · · · · · · · · · · · · · · ·	
							140
							
					<u> </u>		7.50
1 1/2//25	Breezelke	0/22/95					
Released by (Signature), Date	Released by (Signa	5_	· · · · · · · · · · · · · · · · · · ·				
		ture), Date Re	leased by (Signatur	e), Date			1.50 mg/s
1 Weiss	3 WEISS	5				*	
Affibiation	Affiliation	AŤ	filiation				
2 Buan Bunh 9/2415 1700	4	6]	D. Moore	9-22-95	9:50 x		
Received by (Signature), Date	Shipping Carrier, I	Method, Date Re	ceived by Lab Perso	nnel, Date	Seal intact?	<u> </u>	
2 Weiss	4		C+T	•			. 🤄
Affiliation	Affiliation		filiation, Telephon	Α		; ;	* * * * * * * * * * * * * * * * * *

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 (Y/N); 4 = Refrigerated (Y/N)

Affiliation, Telephone

5 Turnaround [N = Normal, W = 1 Week, R = 24 Hour, HOLD (write out)]

Affiliation

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS: D:\ALL\ADMIN\FORMS\COC. WPZ

		(2)
	Weiss Asso	ociates
1	Environmental and	d Geologic Services
. 5500 Shellmo	ound Street, Emeryvi	lie, CA 94608
Phone: 51	0-450-6000 Fax: 5	510-547-5043 L <i>DBA</i>

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

Jim P	DNTON	
roject the	14-0307-09	

Lab Personnel:	•	PLEASE INCLUDE QA/QC DATA IF BOX 115
	•	CHECKED.

- Specify analytic method and detection limit in report.
- 2) Notify us if there are any anomal ous peaks in GC or other scans.
- 3) ANY QUESTIONS/CLARIFICATIONS: CALL

CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

Sampled by: AR /HT	Laboratory Name:	<u>T</u>		
No. of Sample ID Container Sample Containers Type Date	Vol ² Fil ³ Ref ⁴ Preservative (specify)	Analyze for Analytic Method	turn ⁵	COMMENTS
1 307-05 W/C 9/21/95	IL N Y None	TEH-D LUFT	N	
20.1 1-06				
30 -07				19 pm 19 mm 19 19 mm 19
-08	 			
5 -10	 			
6 • 1 - 1 - 1	 			1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
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8 -13 -15 -15	\ 			
10 1 1 1 1				
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	***************************************			اد برای از این از ا از این از ای
1 Si Tul 9/21/95	3 Buan Bunh 9/22/9	0950 15 5		
Released by (Signature), Date	Released by (Signature), Date	Released by (Signature), Date	-	
1 Weiss	3 WEISS ASSOC.	5		
Affiliation alarge 1700	Affiliation	Affiliation		100 mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/m
2 Duan Brown 1/21/13	4	6D. MODE 9-12-95 Received by Lab Personnel, Date	9:50Am ×	2428 A
Received by (Signature), Date	Shipping Carrier, Method, Date		Seal intact?	
2 WESS ASSOC.	4	6 CAT Affiliation, Telephone		
Affiliation	Affiliation	ATTICIATION, 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 (Y/N); 4 = Refrigerated (Y/N)

5 Turnaround [N = Normal, W = 1 Week, R = 24 Hour, HOLD (write out)]
ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

secured ownight