

**Weiss Associates***Environmental and Geologic Services*

5500 Shellmound Street, Emeryville, CA 94608-2411

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

November 28, 1995

Ms. Susan L. Hugo
Senior Hazardous Materials Specialist
Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

RE: Subsurface Investigation Workplan for New
Century Beverage Company, 1150 Park
Avenue, Emeryville, California
WA Job #14-0307-86

Dear Ms. Hugo:

On behalf of New Century Beverage Company, Weiss Associates (WA) has prepared this workplan to conduct additional subsurface investigation at the New Century Beverage Canning Plant referenced above (Figure 1). This workplan was requested verbally by you on November 27, 1995, after we informed you that our client wishes to further characterize the area surrounding the former diesel tank located at the southwest corner of the site (Figure 2).

The objectives of this investigation include:

- Evaluating the lateral extent of hydrocarbon-impacted soil originating from the former underground diesel fuel underground storage tank (UST) located at the southwest corner of the site;
- Predicting the lateral limits of excavation in both the north and west directions away from the former UST;
- Identifying if any hydrocarbon concentrations above cleanup goals remain in soil beneath the warehouse and the guard house, and
- Pre-characterizing in-situ soil for landfill disposal prior to excavation.

The proposed work will commence on Thursday, November 30, 1995. Field work is expected to be completed in one day.



Ms. Susan Hugo
November 28, 1995

2

Background

New Century canning operations have been conducted under at least two ownerships on the subject property since the mid 1950s. It is our understanding that the site was previously occupied by a baseball diamond used by a semi-professional team. The subject property is part of the site for a proposed development by Kaiser Permanente to construct a hospital/medical center that will occupy the New Century plant site and contiguous sites. WA conducted a subsurface investigation of the site in March and April 1994, and reported evidence of ground water contamination in four areas to the County on July 25, 1994. Two of the areas of contamination are the result of New Century's UST operations (Plumes I and II, as shown on Figure 1), while the other two areas appear to be from upgradient, off-site sources (Plumes III and IV).

New Century further characterized the extent of Plumes I and II and conducted hydraulic testing of selected monitoring wells in October 1994.

Scope of Work

Field Work

- Drill ten soil borings in the vicinity of the former diesel tank located in the southwest corner of the site and collect soil samples for hydrocarbon analysis and soil disposal characterization. Up to three soil samples will be collected from each boring. Soil samples will be collected between 3 to 5 ft and 7 to 10 ft depths.

Report

The results of the investigation will be summarized in the remedial excavation report and will include:

- A tabulated summary of the analytic results;
- Site location map;
- Rationale for boring placement and sampling;
- Conclusions;
- Boring Logs, and
- Chain of Custody Forms and Laboratory Analytic Reports.



Ms. Susan Hugo
November 28, 1995

3

Methods and Procedures

Soil Borings

All soil borings will be installed using drive-punch drilling equipment. Borings will be installed to a maximum 10 ft depth. All boreholes will be grouted following sampling.

Drive-punch sampling will yield a continuous 2-inch diameter core for lithologic description and sample collection for chemical analysis. We will describe the core in detail and record these measurements, as well as other field observations, on a WA borehole/well construction form. A system similar to ASTM test method D 2488-84, Standard Recommended Practice for Description of Soils, will be used for lithologic description of the core.

Soil Sampling

WA will collect soil samples during the advancement of the soil borings. Soil samples for chemical analysis will be collected in either 4 or 6-inch steam-cleaned, brass tubes or clear, polyethylene tubing. The ends of the brass tubes will be quickly described for sediment type and will then be sealed with teflon sheeting and high-density polyethylene caps secured with teflon tape. Each sample tube will be labeled with a sample label completed with indelible marker listing the sample depth, borehole name, sampling date, analysis type(s), company name, job number, and geologist's initials. Each sample tube will be placed in a sealed plastic bag and refrigerated in an insulated cooler containing ice or pre-packaged frozen gel. Samples will be inventoried and shipped (transported) to the analytic laboratory under complete chain-of-custody documentation.

Laboratory Analyses

WA will submit selected soil samples to a state-certified laboratory for analysis for total petroleum hydrocarbons as gasoline (TPH-G) and TPH as diesel (TPH-D) by EPA Method 8015, gas chromatography with flame ionization detector (GC/FID), and benzene, ethylbenzene, toluene, and xylenes (BETX) by EPA Method 8020, gas chromatography with photoionization detection (GC/PID).

Additionally, WA will submit up to 10 selected soil samples for STLC lead analysis to satisfy landfill characterization criteria.

Schedule

WA plans to both begin and complete the proposed field work on November 30, 1995.



Ms. Susan Hugo
November 28, 1995

4

Please contact either of us at (510) 450-6000 if you have any questions.

Sincerely,
Weiss Associates

Paul M. Nuti
Staff Engineer

James D. Ponton
Project Geologist

cc: Cyndi Virostko, BFI Landfill
Jerry Tidwell, New Century Beverage, Emeryville
Paul Morici, New Century Beverage, New York
Ray Plock, Consultant
J. Jeffrey Root, Weiss Associates

Enclosures: Figure 1 Site Location Map
Figure 2 Site Map with Proposed Boring Locations
Analytic Results

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WEISS ASSOCIATES

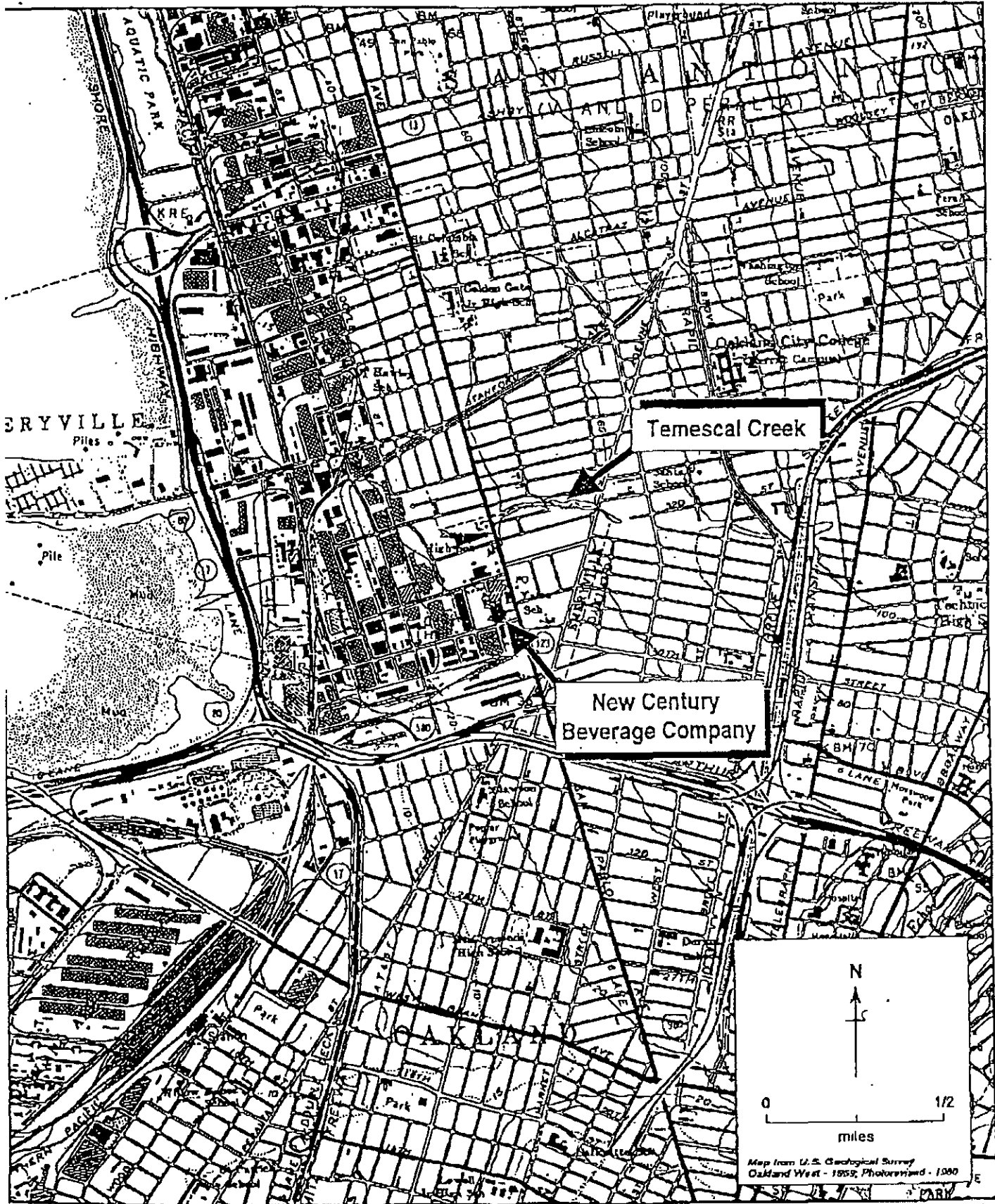


Figure 1. Site Vicinity Map - New Century Beverage Company, 1150 Park Avenue, Emeryville, California

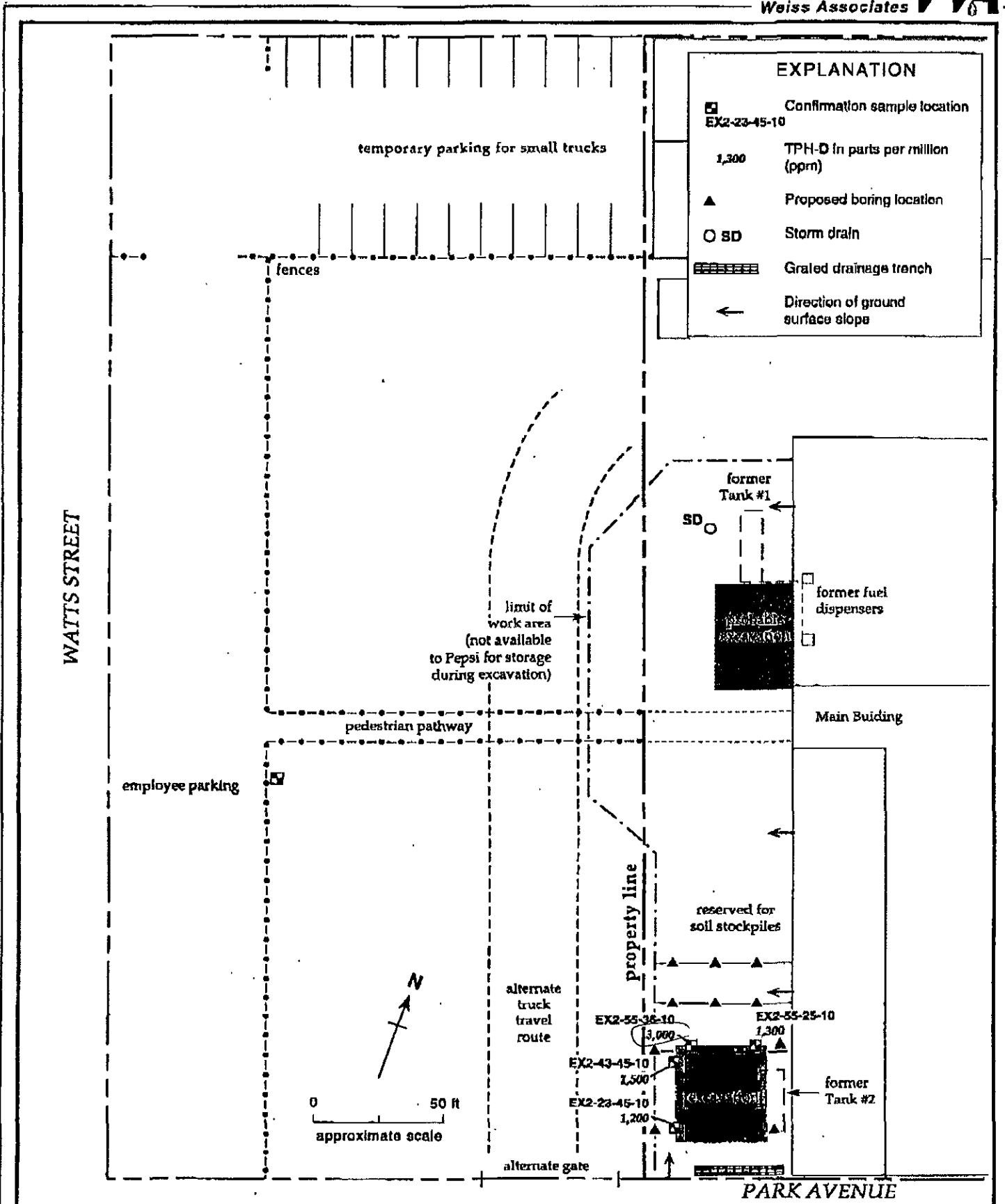


Figure 2. Site Map with Proposed Boring Locations - New Century Beverage Company, 1150 Park Avenue, Emeryville, California



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Weiss Associates
5500 Shellmound Street
Emeryville, CA 94608

Date: 17-NOV-95
Lab Job Number: 123407
Project ID: 14-0307-86
Location: N/A

Reviewed by:

Reviewed by:

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TVH-Total Volatile Hydrocarbons	
Client: Weiss Associates	Analysis Method: CA LUFT (EPA 8015M)
Project#: 14-0307-86	Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123407-001	EX2-23-45-10	24412	11/15/95	11/15/95	11/15/95	
123407-002	EX2-43-45-10	24412	11/15/95	11/15/95	11/15/95	
123407-003	EX2-55-36-10	24412	11/15/95	11/15/95	11/15/95	
123407-004	EX2-55-25-10	24419	11/15/95	11/16/95	11/16/95	

Analyte	Units	123407-001	123407-002	123407-003	123407-004
Diln Fac:		1	1	1	25
Gasoline	mg/Kg	17 Y	18 Y	17 Y	43 Y
Surrogate					
Trifluorotoluene	%REC	84	81	81	83
Bromobenzene	%REC	100	94	83	66 *

Y: Sample exhibits fuel pattern which does not resemble standard



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Page 1 of 1

BTXE	
Client: Weiss Associates	Analysis Method: BTXE
Project#: 14-0307-86	Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123407-001	EX2-23-45-10	24412	11/15/95	11/15/95	11/15/95	
123407-002	EX2-43-45-10	24412	11/15/95	11/15/95	11/15/95	
123407-003	EX2-55-36-10	24412	11/15/95	11/15/95	11/15/95	
123407-004	EX2-55-25-10	24419	11/15/95	11/16/95	11/16/95	

Analyte	Units	123407-001	123407-002	123407-003	123407-004
Diln Fac:		1	1	1	25
Benzene	ug/Kg	<5	<5	<5	<13
Toluene	ug/Kg	<5	<5	<5	<13
Ethylbenzene	ug/Kg	<5	<5	<5	<13
m,p-Xylenes	ug/Kg	<5	<5	<5	44
o-Xylene	ug/Kg	<5	<5	<5	<13
Surrogate					
Trifluorotoluene	%REC	96	87	85	95
Bromobenzene	%REC	106	97	86	95



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Lab #: 123407

BATCH QC REPORT

Page 1 of 1

TVH-Total Volatile Hydrocarbons

Client: Weiss Associates
 Project#: 14-0307-86

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

METHOD BLANK

Matrix: Soil
 Batch#: 24412
 Units: mg/Kg
 Diln Fac: 1

Prep Date: 11/15/95
 Analysis Date: 11/15/95

MB Lab ID: QC09062

Analyte	Result	
Gasoline	<1.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	98	52-127
Bromobenzene	89	45-140



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Lab #: 123407

BATCH QC REPORT

Page 1 of 1

BTXE

Client: Weiss Associates
Project#: 14-0307-86

Analysis Method: BTXE
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 24412
Units: ug/Kg
Diln Fac: 1

Prep Date: 11/15/95
Analysis Date: 11/15/95

MB Lab ID: QC09062

Analyte	Result	
Benzene	<5.0	
Toluene	<5.0	
Ethylbenzene	<5.0	
m,p-Xylenes	<5.0	
o-Xylene	<5.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	104	43-114
Bromobenzene	93	47-112



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Page 1 of 1

BATCH QC REPORT

Lab #: 123407

BTXE	
Client: Weiss Associates Project#: 14-0307-86	Analysis Method: BTXE Prep Method: EPA 5030
METHOD BLANK	
Matrix: Soil Batch#: 24419 Units: ug/Kg Diln Fac: 1	Prep Date: 11/16/95 Analysis Date: 11/16/95

MB Lab ID: QC09090

Analyte	Result	
Benzene	<5.0	
Toluene	<5.0	
Ethylbenzene	<5.0	
m,p-Xylenes	<5.0	
o-Xylene	<5.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	92	43-114
Bromobenzene	79	47-112



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Page 1 of 1

Lab #: 123407

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Weiss Associates	Analysis Method: CA LUFT (EPA 8015M)
Project#: 14-0307-86	Prep Method: EPA 5030
METHOD BLANK	
Matrix: Soil	Prep Date: 11/16/95
Batch#: 24419	Analysis Date: 11/16/95
Units: mg/Kg	
Diln Fac: 1	

MB Lab ID: QC09090

Analyte	Result	
Gasoline	<1.0	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	79	52-127
Bromobenzene	74	45-140



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Lab #: 123407

BATCH QC REPORT

Page 1 of 1

TVH-Total Volatile Hydrocarbons

Client: Weiss Associates
Project#: 14-0307-86

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

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 24412
Units: mg/Kg
Diln Fac: 1

Prep Date: 11/15/95
Analysis Date: 11/15/95

LCS Lab ID: QC09061

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	10	10.03	100	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	111	52-127		
Bromobenzene	105	45-140		

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



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Lab #: 123407

BATCH QC REPORT

Page 1 of 1

BTXE

Client: Weiss Associates
Project#: 14-0307-86

Analysis Method: BTXE
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 24412
Units: ug/Kg
Diln Fac: 1

Prep Date: 11/15/95
Analysis Date: 11/15/95

LCS Lab ID: QC09061

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	103.3	100	103	80-120
Toluene	108.7	100	109	80-120
Ethylbenzene	116.1	100	116	80-120
m,p-Xylenes	190.2	200	95	80-120
o-Xylene	110	100	110	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	104	43-114		
Bromobenzene	98	47-112		

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



Lab #: 123407

BATCH QC REPORT

Page 1 of 1

TVH-Total Volatile Hydrocarbons			
Client: Weiss Associates	Project#: 14-0307-86	Analysis Method: CA LUFT (EPA 8015M)	Prep Method: EPA 5030
LABORATORY CONTROL SAMPLE			
Matrix: Soil	Batch#: 24419	Units: mg/Kg	Diln Fac: 1
		Prep Date: 11/16/95	Analysis Date: 11/16/95

LCS Lab ID: QC09089

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	10.3	10.03	103	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	95	52-127		
Bromobenzene	103	45-140		

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



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Lab #: 123407

BATCH QC REPORT

Page 1 of 1

BTXE

Client: Weiss Associates
Project#: 14-0307-86

Analysis Method: BTXE
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 24419
Units: ug/Kg
Diln Fac: 1

Prep Date: 11/16/95
Analysis Date: 11/16/95

LCS Lab ID: QC09089

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	104.8	100	105	80-120
Toluene	106.9	100	107	80-120
Ethylbenzene	112.3	100	112	80-120
m,p-Xylenes	206.9	200	103	80-120
o-Xylene	107.1	100	107	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	93	43-114		
Bromobenzene	85	47-112		

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



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Page 1 of 1

TEH-Tot Ext Hydrocarbons

Client: Weiss Associates

Analysis Method: CA LUFT (EPA 8015M)

Project#: 14-0307-86

Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123407-001	EX2-23-45-10	24413	11/15/95	11/15/95	11/16/95	
123407-002	EX2-43-45-10	24413	11/15/95	11/15/95	11/16/95	
123407-003	EX2-55-36-10	24413	11/15/95	11/15/95	11/17/95	
123407-004	EX2-55-25-10	24413	11/15/95	11/15/95	11/16/95	

Analyte	Units	123407-001	123407-002	123407-003	123407-004
Diln Fac:		4	5	10	5
Diesel Range	mg/Kg	1200	1500	3000	1300
Surrogate					
Hexacosane	%REC	86	87	100	62



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Page 1 of 1

Lab #: 123407

BATCH QC REPORT

TEH-Tot Ext Hydrocarbons	
Client: Weiss Associates Project#: 14-0307-86	Analysis Method: CA LUFT (EPA 8015M) Prep Method: 3550
METHOD BLANK	
Matrix: Soil Batch#: 24413 Units: mg/Kg Diln Fac: 1	Prep Date: 11/15/95 Analysis Date: 11/16/95

MB Lab ID: QC09065

Analyte	Result	
Diesel Range	<1.0	
Surrogate	%Rec	Recovery Limits
Hexacosane	74	60-140



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Page 1 of 1

Lab #: 123407

BATCH QC REPORT

TEH-Tot Ext. Hydrocarbons

Client: Weiss Associates
Project#: 14-0307-86

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: 3550

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 24413
Units: mg/Kg
Diln Fac: 1

Prep Date: 11/15/95
Analysis Date: 11/16/95

LCS Lab ID: QC09066

Analyte	Result	Spike Added	%Rec #	Limits
Diesel Range	48.8	51.3	95	60-140
Surrogate	%Rec	Limits		
Hexacosane	77	60-140		

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



Curtis & Tompkins, Ltd.

Lab #: 123407

BATCH QC REPORT

Page 1 of 1

TEH-Tot. Ext. Hydrocarbons	
Client: Weiss Associates	Analysis Method: CA LUFT (EPA 8015M)
Project#: 14-0307-86	Prep Method: 3550
MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
Field ID: ZZZZZZ	Sample Date: 11/14/95
Lab ID: 123394-001	Received Date: 11/14/95
Matrix: Soil	Prep Date: 11/15/95
Batch#: 24413	Analysis Date: 11/16/95
Units: mg/Kg	
Diln Fac: 1	

MS Lab ID: QC09067

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Diesel Range	51.3	10	52.3	82	60-140
Surrogate	%Rec	Limits			
Hexacosane	78	60-140			

MSD Lab ID: QC09068

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Diesel Range	51.3	48.8	75	60-140	9	<30
Surrogate	%Rec	Limits				
Hexacosane	68	60-140				

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

123401

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

Paul Nuti

Project ID: 14-0307-86

Lab Personnel:

PLEASE INCLUDE QA/QC DATA IF BOX IS CHECKED.

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

CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

Sampled by: Paul Nuti

Laboratory Name: Curtis Tompkins

1
2
3
4

No. of Containers	Sample ID	Container Type	Sample Date	Vol ²	Fl ³	Ref ⁴	Preservative (specify)	Analyze for	Analytic Method	Turn ⁵	COMMENTS
1	EA-23-4540	S	11-15-95	Tube	N	Y	None	TPH-G TPH-D BTEX		24	Fax results by 5 pm 11-16-95
1	EX-45-4010	S						TPH-G TPH-D BTEX		24	
1	EX-55-360	S						TPH-G TPH-D BTEX		24	
1	EX-55-2540	S						TPH-G TPH-D BTEX		24	

1 Paul Nuti
 Released by (Signature), Date 11-15-95

1 Weiss Associates
 Affiliation

2 _____
 Received by (Signature), Date

2 _____
 Affiliation

3 Damara Moore
 Released by (Signature), Date 11-15-95

3 _____
 Affiliation

4 _____
 Shipping Carrier, Method, Date

4 _____
 Affiliation

5 _____
 Released by (Signature), Date

5 _____
 Affiliation

6 _____
 Received by Lab Personnel, Date Seal intact?

6 _____
 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 (Y/N); 4 = Refrigerated (Y/N)
 5 Turnaround [N = Normal, W = 1 Week, R = 24 Hour, HOLD (write out)]
 ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

11/28/1995 17:03 510-547-5043 WEISS ASSOC EMVVL PAGE 23