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C A M B R I A

July 29, 2004

Mr. Barney Chan  
Alameda County Health Care Services (ACHCSA)  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

RECEIVED  
ACHCSA  
July 29, 2004  
Environmental Health

Re: **Subsurface Investigation Report**  
Former Chevron Service Station 9-2960  
2416 Grove Way  
Castro Valley, CA



Dear Mr. Chan:

On behalf of Chevron Environmental Management Company (ChevronTexaco), Cambria Environmental Technology, Inc. (Cambria), is submitting this *Subsurface Investigation Report*, which summarizes recent soil boring and soil vapor sampling activities at the above referenced site. As stated in our *Investigation Workplan Addendum* dated March 24, 2004, the four soil vapor samples were collected to assess indoor air human health risks for residential standards and the grab groundwater sample was collected for plume delineation purposes. The workplan was approved by the ACHCSA in a May 20, 2004 letter, which is presented as Attachment A. Presented below are a site description and our investigation results.

#### SITE DESCRIPTION

The site is a former Chevron service station located at the northeast corner of the Grove Way and Redwood Road intersection in Castro Valley, California (Figure 1). Topography in the general site vicinity is flat and gently slopes to the south. The site is currently occupied by a Trader Joe's grocery store and an associated parking lot (Figure 2). Two monitoring wells, C-7 and C-8, remain on and near the site, respectively. Monitoring well C-7 is located west of the site across Redwood Road; this well was removed from the monitoring and sampling program in 2002 because no petroleum hydrocarbon constituents had been detected since sampling began in 1990. Monitoring well C-8 is located within the landscaping on the southwest margin of the site.

**Cambria  
Environmental  
Technology, Inc.**

5900 Hollis Street  
Suite A  
Emeryville, CA 94608  
Tel (510) 420-0700  
Fax (510) 420-9170

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## PREVIOUS INVESTIGATIONS

**October 1986, Monitoring Well Installation:** In October 1986, EMCON Associates installed groundwater monitoring wells C-1 through C-4. The highest hydrocarbon concentrations in groundwater detected were from well C-1 with 120,000 parts per billion (ppb) total petroleum hydrocarbons as gasoline (TPHg) and 25,000 ppb benzene, respectively.

**August 1990, Monitoring Well Installation:** GeoStrategies, Inc. installed offsite wells C-5 through C-7 to delineate the lateral extent of hydrocarbons in groundwater.



**November 1993, Groundwater and Soil Vapor Extraction System:** Weiss Associates (WA) installed well EW-1, which was used as a groundwater and soil vapor extraction system. The system operated from November 1993 through 1996 and removed approximately 8,900 pounds of petroleum hydrocarbons. In 1997, the extraction system was shut down and removed with approval from ACHCSA.

**February 1997, Subsurface Investigation:** In February 1997, Gettler-Ryan (G-R) advanced borings B-1 through B-6 to investigate soil near the former product piping and dispenser island areas. Borings B-1 through B-4 were advanced to a total depth of 16.5 feet below grade (fbg); borings B-5 and B-6 were advanced to 19.5 fbg. TPHg and benzene concentrations were detected in the capillary fringe zone, from 15.5 to 18.5 fbg, at a maximum of 2,300 and 13 milligrams per kilogram (mg/kg), respectively.

**April 1997, Well Abandonment and Destruction:** In April 1997, G-R abandoned off-site well C-5 to allow construction activities. Wells C-1, C-2, C-3 and EW-1 were abandoned in September 1998, prior to the Redwood Road widening project. Wells C-4 and C-6 were paved over during the road widening project. Numerous attempts to recover the wells were made by G-R but the wells were not located.

**Groundwater Monitoring:** Gettler-Ryan (GR) began groundwater monitoring in March 1987. In October 1989, C-1 contained 0.91 feet of separate-phase hydrocarbons (SPH). GR began interim recovery of SPH from C-1 in January 1990. Bailing and pumping continued through January 1995. Semi-annual monitoring and sampling was initiated for all wells in January 1997, during the first and third quarters.

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## INVESTIGATION RESULTS

The objective of this investigation was to assess indoor air human health risks for residential standards and to further define the methyl tertiary butyl ether (MTBE) plume. Our investigation results are presented below. The boring log for SB1 is presented as Attachment B. The laboratory analytical reports for soil, groundwater and soil vapor samples are presented as Attachment C. A copy of the Alameda County Public Works Agency (ACPWA) well permit is presented as Attachment D.

### Soil Boring and Soil Vapor Point Installation & Sampling



- Personnel Present:** Cambria staff scientist Melissa Terry and staff geologist Aja Yee conducted fieldwork under the direction of Registered Geologist N. Scott MacLeod.
- Permits:** Work was conducted under permit numbers W04-0403 and W04-0404, issued by the Alameda County Public Works Agency, Water Resources Section.
- Drilling Company:** Soil boring SB1 was drilled by Vironex Environmental Field Services of San Leandro, California; C57 No. 720904.
- Drilling Date:** April 13, 2004 (soil boring), April 30, 2004 (soil vapor points installation), May 18, 2004 (soil vapor sampling).
- Drilling Method:** Two-inch diameter GeoProbe® (soil boring) and a four-inch diameter hand auger (soil vapor points).
- Number of Borings:** Five. Four shallow (<5 fbg) borings/temporary soil vapor points (SV1 through SV4) were installed within the landscaping along the southern margin of the site. One soil boring (SB1) was advanced to 22 fbg near the west margin of the site, within the paved parking area.
- Sampling Techniques:** SB1 was cleared by hand augering to eight fbg prior to drilling with the GeoProbe®. SB1 was advanced using a 2-inch diameter dual-tube direct push sampler. Undisturbed soil samples were collected at five foot intervals. The soil samples were properly sealed, logged on the chain-of-custody form, preserved on ice and released to the laboratory for analysis.

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Temporary soil vapor points SV1 through SV4 were installed two weeks prior to sampling. Soil vapor samples were collected using 30-minute flow meters and 6-liter Summa™ canisters connected to the sampling tubing at each vapor point. A battery powered air pump with attached vacuum-chamber and Tedlar™ bag was used to purge an appropriate volume from the sampling point tubing. After purging, the valve between the purge pump and Summa™ canister was closed and the Summa™ canister valve was opened. The vacuum of the Summa™ canister was used to draw the soil vapor through the flow controller until a negative pressure of approximately 5-inches of Hg was observed on the vacuum gauge. After sampling, the Summa™ canisters were packaged and sent to the Air Toxics laboratory under chain-of-custody for analysis.

**Laboratory Analyses:** Based on field screening, selected soil and soil vapor samples were analyzed for:

- TPHg by EPA Method 8015M (soil and groundwater samples only),
- Benzene, toluene, ethylbenzene and toluene (BTEX), MTBE, and fuel oxygenates (DIPE, ETBE, TAME and TBA) by EPA Method 8260B (soil and groundwater samples only) and
- BTEX, CO<sub>2</sub> and O<sub>2</sub> by EPA Method T0-14 (soil vapor samples only).

Results of the analyses are presented in Tables 1 and 2.


**Hydrocarbon Distribution in Soil:** Analytic results of soil samples collected from SB-1 indicate no significant concentrations of hydrocarbons are present in soil in the vicinity of SB-1. The only hydrocarbon constituent detected in SB-1 soil samples was TPHg, at a concentration of 3.6 mg/kg. No BTEX or MTBE was detected in soils collected from SB-1.

**Hydrocarbon Distribution in Groundwater:** Analytic results of the grab groundwater sample collected from SB-1 confirm that no significant concentrations of hydrocarbons are present in the vicinity of SB-1. TPHg was detected at a concentration of 180 micrograms per liter ( $\mu\text{g/l}$ ) and benzene at a concentration of 0.5  $\mu\text{g/l}$ . Concentrations of MTBE were <0.5  $\mu\text{g/l}$ , indicating that



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the MTBE plume has likely not migrated offsite.



***Hydrocarbon Vapors Distribution in Soil:*** Analytical results of soil vapor sampling indicate only very slight concentrations of hydrocarbon constituents exist in onsite soils in the vicinity of the vapor points. Vapor samples were analyzed for BTEX and the results were compared to the relatively conservative residential indoor air environmental screening levels (ESL) for these constituents. None of the vapor samples contained concentrations of toluene, ethylbenzene or xylene above residential indoor air ESLs. Two of the four vapor samples did not contain concentrations of benzene above the residential indoor air ESL. One of the vapor samples (SV1) contained high levels of a non-petroleum hydrocarbon constituent; this resulted in the laboratory having to raise the reporting limit. A discussion of the data with Air Toxics Limited indicated the presence of non-target species identified as 2-propanol and is not considered consistent with a petroleum release. As a result, it cannot be verified if the vapor sample from SV1 is below or above the ESL for benzene. Vapor sample SV2 only slightly exceeded the ESL for benzene for residential indoor air.

## RECOMMENDATIONS

With the exception of one vapor sample slightly exceeding the ESL for benzene for residential indoor air, all other soil, groundwater and soil vapor samples collected during this investigation were below the conservative standards for ESLs for residential indoor air. The site is currently used for commercial activities (Trader Joe's grocery store) and will likely remain commercial property for the foreseeable future. The surrounding properties also are used for commercial activities. Based on the results of this investigation, it is Cambria's opinion that no further environmental investigation is necessary at this site. Cambria recommends that quarterly groundwater monitoring of this site be discontinued and the two remaining groundwater monitoring wells associated with this site be destroyed.

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## CLOSING

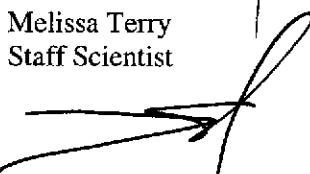
Please contact Bruce Eppler or Sara Giorgi at (916) 630-1855 with any questions or comments regarding the site or this workplan.

Sincerely,

**Cambria Environmental Technology, Inc.**



Melissa Terry  
Staff Scientist



N. Scott MacLeod  
Principal Geologist, R.G.



Figures:        1 – Vicinity Map  
                     2 – Site Map

Tables:         1 – Soil Analytical Data  
                     2 – Grab Groundwater Analytical Data  
                     3 – Soil Vapor Analytical Data  
                     4 – ESL Analyses

Attachment:    A – ACHCSA Letter dated May 20, 2004  
                     B – Boring Log for SB-10  
                     C – Laboratory Analytic Results for Soil, Groundwater and Soil Vapor Samples  
                     D – ACPWA Well Permits

cc:                Ms. Karen Streich, Chevron Environmental Management Company, P.O. Box 6012,  
                     L4052 San Ramon, CA 94583-0804

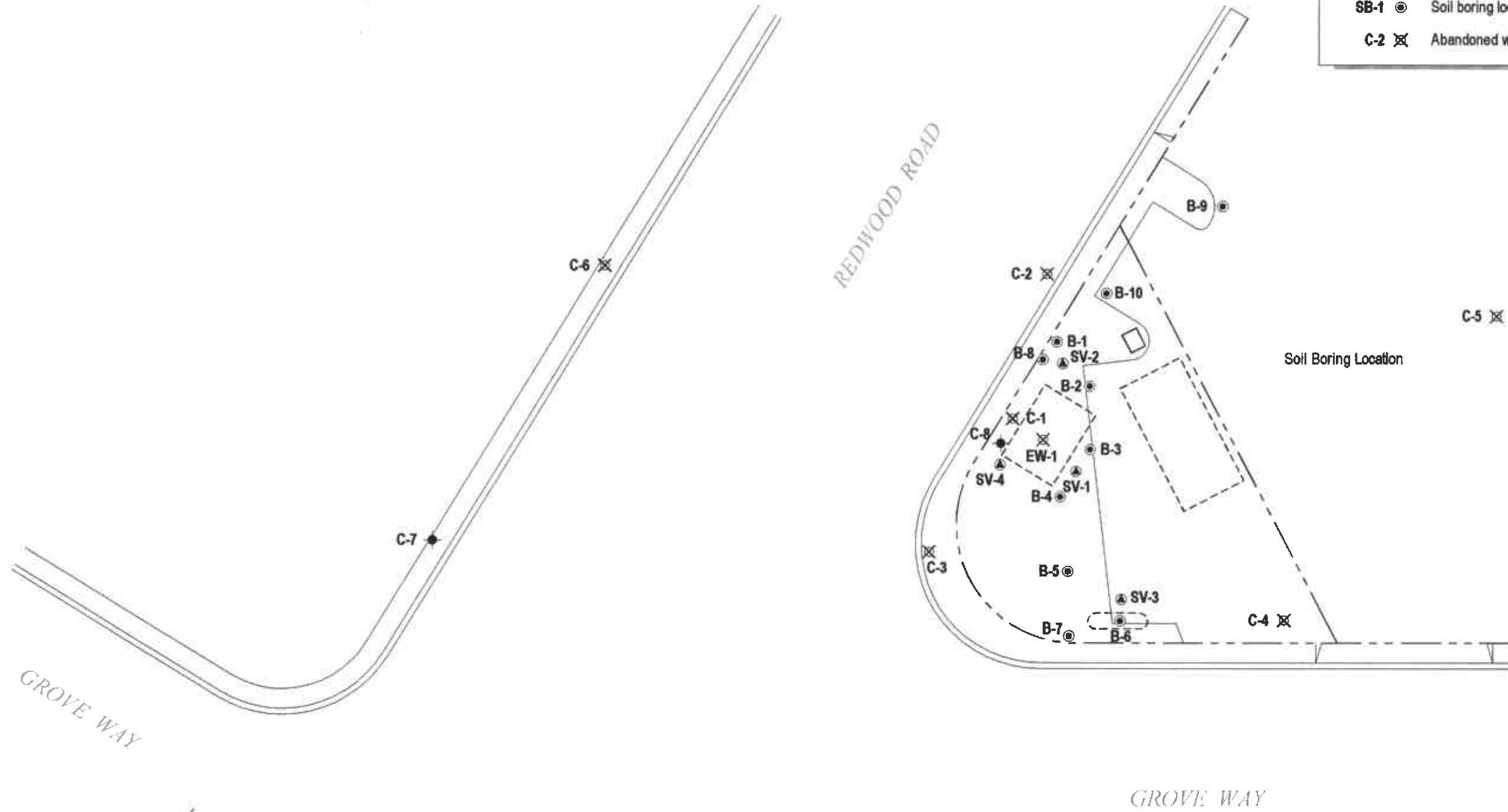


**Former Chevron Station 9-2960**  
 2416 Grove Way  
 Castro Valley, California



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**Vicinity Map**



EXPLANATION	
SV-1	▲ Vapor boring location
MW-1	◆ Monitoring well location
SB-1	● Soil boring location
C-2	✕ Abandoned well location

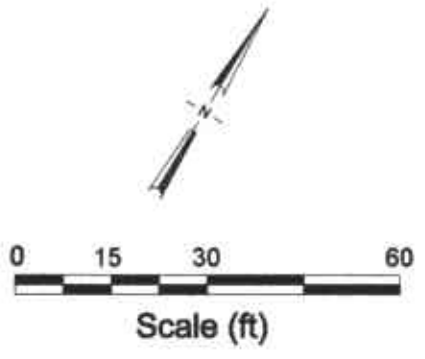


FIGURE 2



# CAMBRIA

**Table 1. Analytic Results for Soil Samples - Former Chevron Station 9-2960, 2416 Grove Way, Castro Valley, CA**

Sample ID	Sample Depth (ft.)	Sample Date	TPHg	B	T	E	X	MTBE
Concentrations reported in milligrams per kilogram mg/kg = parts per million								
B-10	10	4/13/2004	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005
	18	4/13/2004	3.6	<0.0005	<0.001	<0.001	<0.001	<0.0005
	22	4/13/2004	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005

**Abbreviations/Notes:**

Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M

Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8260B

Methyl tertiary butyl ether (MTBE) by EPA Method 8260B

<x = Not detected above method detection limit

# CAMBRIA

**Table 2. Analytic Results for Grab Groundwater Sample - Former Chevron Station 9-2960, 2416 Grove Way, Castro Valley, CA**

Sample ID	Sample Date	TPHg	B	T	E	X	MTBE
B-10	4/13/2004	180	0.5	<0.5	0.9	<0.5	<0.5

**Abbreviations/Notes:**

Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M

Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8260B

Methyl tertiary butyl ether (MTBE) by EPA Method 8260B

<x = Not detected above method detection limit

# CAMBRIA

**Table 3. Analytic Results for Soil Vapor Samples - Former Chevron Station 9-2960, 2416 Grove Way, Castro Valley, CA**

Sample ID	Sample Date	B	T	E	X
SV-1	5/18/2004	<1100	<1200	<1400	<1400
SV-2	5/18/2004	100	16	5.1	<3.6
SV-3	5/18/2004	9.7	3.6	<3.6	6.3
SV-4	5/18/2004	<2.3	4.9	<3.2	9

**Abbreviations/Notes:**

Benzene, toluene, ethylbenzene and xylenes (BTEX) by Modified EPA Method TO-14A

<x = Not detected above method detection limit

**Table 4. ESL Analyses, Trader Joe's Area Wells, Residential Exposure**  
Former Chevron Station #9-2960, 2416 Grove Way, Castro Valley, CA

Sample ID	Depth (ft.)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
<b>Shallow Soil ESLs</b>		(concentrations reported in mg/kg)					
B-10	10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005
	18	3.6	<0.0005	<0.001	<0.001	<0.001	<0.0005
	22	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005
Indoor Impacts ESL		(No ESL)	0.18	180	4.7	45	2.0
<b>Groundwater ESLs</b>		(concentrations reported in µg/L)					
B-10W	22	180	0.5	<0.5	0.9	<0.5	<0.5
Indoor Impacts ESL		(No ESL)	530	500,000	14,000	150,000	24,000
<b>Soil Vapor ESLs</b>		(concentrations reported in µg/m <sup>3</sup> )					
SV1	5	NA	<1100	<1200	<1400	<2800	NA
SV2	3.6	NA	100	16.0	5.1	<7.2	NA
SV3	3.5	NA	10.0	3.6	<3.6	6.3	NA
SV4	4	NA	<2.3	4.9	<3.2	9.0	NA
Indoor Impacts ESL		(No ESL)	84	83,000	2,200	21,000	

**Abbreviations/Notes:**

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl-tertiary butyl ether

mg/kg = milligrams per kilogram

µg/L = micrograms per liter

µg/m<sup>3</sup> = micrograms per cubic meter

<x = not detected above laboratory reporting limits

NA = Not analyzed.

ESL = Environmental screening level, from: *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater*, dated July 2003, by the Regional Water Quality Control Board-San Francisco Bay Region.

**ATTACHMENT A**

**ACHCSA Letter dated May 20, 2004**

RO0000275

May 20, 2004

Ms. Karen Streich  
Chevron  
P.O. Box 6012, L4052  
San Ramon, CA 94583-0804

**RE: Workplan Approval for Former Chevron 9-2960 at 2416 Grove Way, Castro Valley, CA**

Dear Ms. Streich:

I have completed review of Cambria's February 25, 2004 *Investigation Workplan* and their March 24, 2004 *Investigation Workplan Addendum* prepared for the above referenced site. The proposal to collect soil vapor samples to assess indoor air human health risks and to collect soil and groundwater samples to better delineate the contaminant plume at the site is acceptable.

Field work should commence within 90 days of the date of this letter, or by **June 28, 2004**. Please provide at least 72 hours advance notice of field activities. If you have any questions, I can be reached at (510) 567-6762 or by email at [eva.chu@acgov.org](mailto:eva.chu@acgov.org).

eva chu  
Hazardous Materials Specialist

c: Donna Drogos  
email: Sara Giorgi, Cambria

chevron9-2960-1

**ATTACHMENT B**  
**SB-10 Boring Log**



Cambria Environmental Technology, Inc.  
 5900 Hollis Street, Suite A  
 Emeryville, CA 94608  
 Telephone: (510) 420-0700  
 Fax: (510) 420-9170

# BORING/WELL LOG

<b>CLIENT NAME</b>	<u>Chevron Products Company</u>	<b>BORING/WELL NAME</b>	<u>B10</u>
<b>JOB/SITE NAME</b>	<u>Former Chevron # 9-2960, currently Trader Joe's</u>	<b>DRILLING STARTED</b>	<u>13-Apr-04</u>
<b>LOCATION</b>	<u>2416 Grove Way, Castro Valley, CA</u>	<b>DRILLING COMPLETED</b>	<u>13-Apr-04</u>
<b>PROJECT NUMBER</b>	<u>61D-1964</u>	<b>WELL DEVELOPMENT DATE (YIELD)</b>	<u>NA</u>
<b>DRILLER</b>	<u>Vironex</u>	<b>GROUND SURFACE ELEVATION</b>	<u>Not Surveyed</u>
<b>DRILLING METHOD</b>	<u>Hydraulic push</u>	<b>TOP OF CASING ELEVATION</b>	<u>Not Surveyed</u>
<b>BORING DIAMETER</b>	<u>2"</u>	<b>SCREENED INTERVAL</b>	<u>NA</u>
<b>LOGGED BY</b>	<u>M. Terry</u>	<b>DEPTH TO WATER (First Encountered)</b>	<u>16.0 fbg (13-Apr-04)</u>
<b>REVIEWED BY</b>	<u>B. Foss, RG # 7445</u>	<b>DEPTH TO WATER (Static)</b>	<u>NA</u>

**REMARKS**

WELL LOG (PID) I:\0-ROCK-19-2960-1\INVEST-1\B10 GINT LOG APRIL 04.GPJ DEFAULT GDT 7/14/04

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		B10 @ 5		3.0	ML		<b>Sandy SILT/FILL:</b> Grey brown; dry; 60% sand, 20% silt, 20% gravel (peices of bricks and asphalt); no plasticity; high estimated permeability.	3.0	
				5.0	ML		<b>Sandy SILT:</b> Light brown; dry; 50% silt, 30% sand, 20% clay; low plasticity; moderate estimated permeability.	5.0	
				6.5	ML		<b>Sandy SILT:</b> Brown; dry; 40% silt, 40% sand, 20% clay; low plasticity; moderate estimated permeability.	6.5	
				8.0	CL		<b>Silty CLAY:</b> Orange brown; dry; 30% clay; 30% silt, 20% sand, 20% gravel; low plasticity; moderate estimated permeability.	8.0	
0		B10 @ 10		10.0	CL		<b>Silty CLAY:</b> Orange brown; dry; 40% clay; 30% silt, 20% sand, 10% gravel; low plasticity; moderate estimated permeability.	10.0	
0		B10 @ 14		15.0	CL			15.0	
0		B10 @ 18		20.0	CL			20.0	
0		B10 @ 22		21.0	SC		<b>Sandy CLAY:</b> Grey orange; moist; 40% clay, 40% sand, 20% silt; low plasticity; moderate estimated permeability.	21.0	
0				22.5			<b>Clayey SAND:</b> Orange brown; dry; 50% sand, 30% clay, 20% silt; low plasticity; moderate estimated permeability.	22.5	Bottom of Boring @ 22.5 ft



**ATTACHMENT C**

**Laboratory Analytic Results for Soil, Groundwater and Soil  
Vapor Sampling**

## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco C/O Cambria  
4111 Citrus Avenue  
Suite 9  
Rocklin CA 95677  
916-630-1855

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425SAMPLE GROUP

The sample group for this submittal is 892203. Samples arrived at the laboratory on Thursday, April 15, 2004. The PO# for this group is 99011184 and the release number is MTI.

<u>Client Description</u>			<u>Lancaster Labs Number</u>
B10-S-10-040413	NA	Soil	4254642
B10-S-18-040413	NA	Soil	4254644
B10-S-22-040413	NA	Soil	4254645
B10-W-040413	Grab	Water	4254646

1 COPY TO

Cambria Rocklin

Attn: Ms. Ann Navarro

Questions? Contact your Client Services Representative  
Alison M O'Connor at (717) 656-2300.

Respectfully Submitted,



Victoria M. Martell  
Chemist

**Lancaster Laboratories Sample No. SW 4254642**
**B10-S-10-040413 NA Soil**  
**Facility# 92960 MTI# 61D-1964 CETR**  
**2416 Grove Way-Castro Val T0600100318 B-10**  
 Collected: 04/13/2004 08:40 by MT

Account Number: 10880

 Submitted: 04/15/2004 08:55  
 Reported: 05/14/2004 at 12:06  
 Discard: 06/14/2004

 ChevronTexaco C/O Cambria  
 4111 Citrus Avenue  
 Suite 9  
 Rocklin CA 95677

B1010

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	04/15/2004 22:30	Steven A Skiles	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	04/22/2004 07:25	Anastasia Papadoplos	1.01
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	04/22/2004 04:56	Anastasia Papadoplos	n.a.
01150	GC VOA Soil Prep	SW-846 5035	1	04/15/2004 15:22	Eric L Vera	n.a.

**Lancaster Laboratories Sample No. SW 4254644**
**B10-S-18-040413 NA Soil**  
**Facility# 92960 MTI# 61D-1964 CETR**  
**2416 Grove Way-Castro Val T0600100318 B-10**  
 Collected: 04/13/2004 08:55 by MT

Account Number: 10880

 Submitted: 04/15/2004 08:55  
 Reported: 05/14/2004 at 12:06  
 Discard: 06/14/2004

 ChevronTexaco C/O Cambria  
 4111 Citrus Avenue  
 Suite 9  
 Rocklin CA 95677

B1018

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01725	TPH-GRO - Soils	n.a.	3.6	1.0		mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB						
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005		mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001		mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001		mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001		mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020		mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005		mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001		mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001		mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001		mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001		mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001		mg/kg	1.01

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	04/15/2004	23:06	Steven A Skiles	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	04/22/2004	08:58	Anastasia Papadoplos	1.01
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	04/22/2004	05:01	Anastasia Papadoplos	n.a.
01150	GC VOA Soil Prep	SW-846 5035	1	04/15/2004	15:25	Eric L Vera	n.a.

**Lancaster Laboratories Sample No. SW 4254645**
**B10-S-22-040413 NA Soil**  
**Facility# 92960 MTI# 61D-1964 CETR**  
**2416 Grove Way-Castro Val T0600100318 B-10**  
 Collected: 04/13/2004 09:10 by MT

Account Number: 10880

 Submitted: 04/15/2004 08:55  
 Reported: 05/14/2004 at 12:06  
 Discard: 06/14/2004

 ChevronTexaco C/O Cambria  
 4111 Citrus Avenue  
 Suite 9  
 Rocklin CA 95677

B1022

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDE					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	04/15/2004 23:42	Steven A Skiles	25
07361	BTEX+5 Oxygenates+EDC+EDE	SW-846 8260B	1	04/22/2004 09:29	Anastasia Papadoplos	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	04/22/2004 05:03	Anastasia Papadoplos	n.a.
01150	GC VOA Soil Prep	SW-846 5035	1	04/15/2004 15:31	Eric L Vera	n.a.

**Lancaster Laboratories Sample No. WW 4254646**
**B10-W-040413**                      **Grab**                      **Water**  
**Facility# 92960**    **MTI# 61D-1964**                      **CETR**  
**2416 Grove Way-Castro Val T0600100318**    **B-10**  
 Collected: 04/13/2004 09:30                      by MT

Account Number: 10880

 Submitted: 04/15/2004 08:55  
 Reported: 05/14/2004 at 12:06  
 Discard: 06/14/2004

 ChevronTexaco C/O Cambria  
 4111 Citrus Avenue  
 Suite 9  
 Rocklin CA 95677

B10WW

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01728	TPH-GRO - Waters	n.a.	180.		50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
06058	BTEX+5 Oxygenates+EDC+EDB						
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.		0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.		0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.		0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.		5.	ug/l	1
05401	Benzene	71-43-2	0.5		0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.		0.5	ug/l	1
05415	Ethylbenzene	100-41-4	0.9		0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.5	ug/l	1

State of California Lab Certification No. 2116

Trip blank vials were not received by the laboratory for this sample group.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline	1	04/19/2004 19:39	Linda C Pape	1
06058	BTEX+5 Oxygenates+EDC+EDB	Method SW-846 8260B	1	04/22/2004 11:21	Carrie J McCullough	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/19/2004 19:39	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/22/2004 11:21	Carrie J McCullough	n.a.

## Quality Control Summary

 Client Name: ChevronTexaco C/O Cambria  
 Reported: 05/14/04 at 12:06 PM

Group Number: 892203

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 04099A34B TPH-GRO - Soils	Sample number(s): 4254642, 4254644-4254645							
	N.D.	1.0	mg/kg	112		67-119		
Batch number: 04109A16A TPH-GRO - Waters	Sample number(s): 4254646							
	N.D.	50.	ug/l	93	103	70-130	10	30
Batch number: D041131AA	Sample number(s): 4254642, 4254644-4254645							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	101		75-125		
di-Isopropyl ether	N.D.	1.	ug/kg	99		70-129		
Ethyl t-butyl ether	N.D.	1.	ug/kg	100		71-124		
t-Amyl methyl ether	N.D.	1.	ug/kg	97		74-117		
t-Butyl alcohol	N.D.	20.	ug/kg	103		51-160		
Benzene	N.D.	0.5	ug/kg	101		83-118		
1,2-Dichloroethane	N.D.	1.	ug/kg	100		76-126		
Toluene	N.D.	1.	ug/kg	95		81-116		
1,2-Dibromoethane	N.D.	1.	ug/kg	99		77-114		
Ethylbenzene	N.D.	1.	ug/kg	100		82-115		
Xylene (Total)	N.D.	1.	ug/kg	100		82-117		
Batch number: P041131AA	Sample number(s): 4254646							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	99		77-127		
di-Isopropyl ether	N.D.	0.5	ug/l	95		67-130		
Ethyl t-butyl ether	N.D.	0.5	ug/l	97		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	103		79-113		
t-Butyl alcohol	N.D.	5.	ug/l	98		57-141		
Benzene	N.D.	0.5	ug/l	101		85-117		
1,2-Dichloroethane	N.D.	0.5	ug/l	98		77-132		
Toluene	N.D.	0.5	ug/l	95		85-115		
1,2-Dibromoethane	N.D.	0.5	ug/l	93		81-114		
Ethylbenzene	N.D.	0.5	ug/l	96		82-119		
Xylene (Total)	N.D.	0.5	ug/l	97		84-120		

### Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 04099A34B TPH-GRO - Soils	Sample number(s): 4254642, 4254644-4254645								
	85	77	39-118	10	30				
Batch number: 04109A16A TPH-GRO - Waters	Sample number(s): 4254646								
	118		63-154						

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



## Quality Control Summary

 Client Name: ChevronTexaco C/O Cambria  
 Reported: 05/14/04 at 12:06 PM

Group Number: 892203

### Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: D041131AA	Sample number(s): 4254642, 4254644-4254645								
Methyl Tertiary Butyl Ether	97	98	57-136	1	30				
di-Isopropyl ether	94	93	55-132	1	30				
Ethyl t-butyl ether	96	95	58-127	0	30				
t-Amyl methyl ether	91	91	58-126	0	30				
t-Butyl alcohol	105	108	38-160	3	30				
Benzene	97	93	52-141	4	30				
1,2-Dichloroethane	95	95	57-137	0	30				
Toluene	91	87	45-142	4	30				
1,2-Dibromoethane	95	95	61-125	0	30				
Ethylbenzene	96	92	40-143	4	30				
Xylene (Total)	96	92	40-143	4	30				
Batch number: P041131AA	Sample number(s): 4254646								
Methyl Tertiary Butyl Ether	103	104	69-134	1	30				
di-Isopropyl ether	100	101	75-130	1	30				
Ethyl t-butyl ether	101	102	78-119	1	30				
t-Amyl methyl ether	104	107	77-117	3	30				
t-Butyl alcohol	107	108	51-147	1	30				
Benzene	107	109	83-128	2	30				
1,2-Dichloroethane	101	102	73-136	1	30				
Toluene	102	101	83-127	0	30				
1,2-Dibromoethane	97	97	78-120	0	30				
Ethylbenzene	102	102	82-129	0	30				
Xylene (Total)	103	104	82-130	0	30				

### Surrogate Quality Control

 Analysis Name: TPH-GRO - Soils  
 Batch number: 04099A34B  
 Trifluorotoluene-F

---

4254642	104
4254644	100
4254645	99
Blank	110
LCS	115
MS	88
MSD	83

---

Limits: 71-122

 Analysis Name: TPH-GRO - Waters  
 Batch number: 04109A16A  
 Trifluorotoluene-F

---

4254646	126
Blank	120
LCS	125
LCSD	126
MS	126

---

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

## Quality Control Summary

 Client Name: ChevronTexaco C/O Cambria  
 Reported: 05/14/04 at 12:06 PM

Group Number: 892203

### Surrogate Quality Control

Limits: 57-146

 Analysis Name: BTEX+5 Oxygenates+EDC+EDB  
 Batch number: D041131AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4254642	86	83	81	80
4254644	88	82	80	82
4254645	88	83	81	80
Blank	84	83	81	81
LCS	87	85	83	83
MS	86	84	83	83
MSD	87	85	83	83

Limits: 70-129

70-121

70-130

70-128

 Analysis Name: BTEX+5 Oxygenates+EDC+EDB  
 Batch number: P041131AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4254646	99	95	94	94
Blank	101	94	95	95
LCS	102	94	95	96
MS	102	94	94	95
MSD	101	94	93	95

Limits: 81-120

82-112

85-112

83-113

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

# Chevron California Region Analysis Request/Chain of Custody



041404-02

Acct. #: 10880

For Lancaster Laboratories use only

Sample #: 4254641-46

SCR#: 892203

Facility #: Chevron # 9-2960  
 Site Address: 2416 Grove Way, Castro Valley  
 Chevron PM: B. Eppler Lead Consultant: Cambria  
 Consultant/Office: Cambria / Rocklin  
 Consultant Prj. Mgr.: M. Terry  
 Consultant Phone #: 510 420 3345 Fax #: 510 420 9170  
 Sampler: M. Terry  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

### Analyses Requested

Preservation Codes							
<input type="checkbox"/>	BTEX + MTBE	8260	<input checked="" type="checkbox"/>	8021			
<input type="checkbox"/>	TPH 8015 MOD	GRO					
<input type="checkbox"/>	TPH 8015 MOD DRO	<input type="checkbox"/>	Silica Gel Cleanup				
<input type="checkbox"/>	8260 full scan						
<input type="checkbox"/>	Z Oxygenates						
<input type="checkbox"/>	Lead 7420	<input type="checkbox"/>	7421				

**Preservative Codes**  
 H = HCl      T = Thiosulfate  
 N = HNO<sub>3</sub>    B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub>   O = Other

J value reporting needed  
 Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation  
 Confirm highest hit by 8260  
 Confirm all hits by 8260  
 Run \_\_\_ oxy's on highest hit  
 Run \_\_\_ oxy's on all hits

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE	8260	8021 <th>TPH 8015 MOD</th> <th>GRO</th> <th>TPH 8015 MOD DRO</th> <th><input type="checkbox"/></th> <th>Silica Gel Cleanup</th> <th>8260 full scan</th> <th>Z Oxygenates</th> <th>Lead 7420</th> <th><input type="checkbox"/></th> <th>7421</th>	TPH 8015 MOD	GRO	TPH 8015 MOD DRO	<input type="checkbox"/>	Silica Gel Cleanup	8260 full scan	Z Oxygenates	Lead 7420	<input type="checkbox"/>	7421	
B10@ 5'	Soil			04 04 13	0820				1	X	X									X			
B10@ 10'					0840				1														
B10@ 14'					0845				1														
B10@ 18'					0855				1														
B10@ 22'					0910				1														
B10	Water			04 04 13	0930 <del>1000</del>		X		8	X	X									X			

**Comments / Remarks**

Test for:  
 BTEX, MTBE, DIPE,  
 TBA, TAME, ETBE,  
 lead scavengers,  
 1,2-DCA, EDB

**Turnaround Time Requested (TAT) (please circle)**

STD. TAT      72 hour      48 hour  
 24 hour      4 day      5 day

**Data Package Options (please circle if required)**

QC Summary      Type I - Full  
 Type VI (Raw Data)       Coelt Deliverable not needed  
 WIP (RWQCB)  
 Disk

Relinquished by: <u>Melina Terry</u>	Date: <u>4/14/04</u>	Time: <u>1125</u>	Received by: <u>[Signature]</u>	Date: <u>4/14/04</u>	Time: <u>1125</u>
Relinquished by: <u>[Signature]</u>	Date: <u>4/14/04</u>	Time: <u>1200</u>	Received by: <u>[Signature]</u>	Date: <u>4/14/04</u>	Time: <u>1200</u>
Relinquished by: <u>[Signature]</u>	Date: <u>4/14/04</u>	Time: <u>1530</u>	Received by: <u>Airborne</u>	Date: <u>4/14/04</u>	Time: _____
Relinquished by Commercial Carrier: UPS      FedEx      Other <u>Airborne</u>	Temperature Upon Receipt: <u>2.5</u> °C		Received by: <u>[Signature]</u>	Date: <u>4/15/04</u>	Time: <u>0835</u>
Custody Seals Intact?			Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>ug</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>ml</b>	milliliter(s)	<b>l</b>	liter(s)
<b>m3</b>	cubic meter(s)	<b>ul</b>	microliter(s)
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>J</b>	estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is <CRDL, but ≥IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns >25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 0405332A

### Work Order Summary

<b>CLIENT:</b>	Mr. Brandon Wilken Cambria Environmental Technology 5900 Hollis Street Suite A Emeryville, CA 94608	<b>BILL TO:</b>	Mr. Brandon Wilken Cambria Environmental Technology 5900 Hollis Street Suite A Emeryville, CA 94608
<b>PHONE:</b>	510-420-0700	<b>P.O. #</b>	31C-1676
<b>FAX:</b>	510-420-9170	<b>PROJECT #</b>	61D-1964 9-2960
<b>DATE RECEIVED:</b>	05/20/04	<b>CONTACT:</b>	Taryn Badal
<b>DATE COMPLETED:</b>	05/28/04		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	SV1	Modified TO-14A	5.5 "Hg
02A	SV2	Modified TO-14A	5.0 "Hg
03A	SV3	Modified TO-14A	5.0 "Hg
04A	SV4	Modified TO-14A	2.0 "Hg
04AA	SV4 Duplicate	Modified TO-14A	2.0 "Hg
05A	Lab Blank	Modified TO-14A	NA
06A	CCV	Modified TO-14A	NA
07A	LCS	Modified TO-14A	NA

CERTIFIED BY: *Sinda J. Freeman*

DATE: 06/02/04

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630  
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**Modified TO-14A**  
**Cambria Environmental Technology**  
**Workorder# 0405332A**

Four 6 Liter Summa Canister samples were received on May 20, 2004. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14A/TO-15</i>	<i>ATL Modifications</i>
Continuing Calibration criteria	<math>\leq 30\%</math> Difference	<math>\leq 30\%</math> Difference with two allowed out to <math>\leq 40\%</math> Difference; flag and narrate outliers
Initial Calibration criteria	RSD<math>< 30\%</math> (TO-14A)	RSD<math>\leq 30\%</math>, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<math>< 0.20</math> ppbv (TO-14A)	<math><</math>Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

Dilution was performed on sample SV1 due to the presence of high level non-target species.

### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

# AIR TOXICS LTD.

SAMPLE NAME: SV1

ID#: 0405332A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name	d052722	Date of Collection	5/18/04
File Sector	656	Date of Analysis	5/28/04 12:55 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	330	Not Detected	1100	Not Detected
Toluene	330	Not Detected	1200	Not Detected
Ethyl Benzene	330	Not Detected	1400	Not Detected
m,p-Xylene	330	Not Detected	1400	Not Detected
o-Xylene	330	Not Detected	1400	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130



# AIR TOXICS LTD.

SAMPLE NAME: SV2

ID#: 0405332A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name	0405332A-02A	Date of Collection	5/18/04
File Path	1.8	Date of Analysis	5/28/04 01:37 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.80	32	2.6	100
Toluene	0.80	4.2	3.1	16
Ethyl Benzene	0.80	1.2	3.6	5.1
m,p-Xylene	0.80	Not Detected	3.6	Not Detected
o-Xylene	0.80	Not Detected	3.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	101	70-130

# AIR TOXICS LTD.

SAMPLE NAME: SV3

ID#: 0405332A-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name	0405332A	Date of Collection	5/18/04
File Path	161	Date of Analysis	5/28/04 12:22 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.80	3.0	2.6	9.7
Toluene	0.80	0.94	3.1	3.6
Ethyl Benzene	0.80	Not Detected	3.6	Not Detected
m,p-Xylene	0.80	1.0	3.6	4.5
o-Xylene	0.80	Not Detected	3.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130

# AIR TOXICS LTD.

SAMPLE NAME: SV4

ID#: 0405332A-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d052725	Date of Collection:	5/18/04
Dil. Factor:	1.44	Date of Analysis:	5/28/04 03:06 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.72	Not Detected	2.3	Not Detected
Toluene	0.72	1.3	2.8	4.9
Ethyl Benzene	0.72	Not Detected	3.2	Not Detected
m,p-Xylene	0.72	1.7	3.2	7.4
o-Xylene	0.72	Not Detected	3.2	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130

# AIR TOXICS LTD.

SAMPLE NAME: SV4 Duplicate

ID#: 0405332A-04AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	0405332A	Date of Collection:	5/18/04
File Path:	1-23	Date of Analysis:	5/28/04 08:50 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.72	Not Detected	2.3	Not Detected
Toluene	0.72	1.2	2.8	4.4
Ethyl Benzene	0.72	Not Detected	3.2	Not Detected
m,p-Xylene	0.72	1.6	3.2	7.1
o-Xylene	0.72	Not Detected	3.2	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0405332A-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d052706	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/27/04 11:13 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	97	70-130

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0405332A-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	0052702	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/27/04 08:10:41

Compound	%Recovery
Benzene	94
Toluene	104
Ethyl Benzene	108
m,p-Xylene	111
o-Xylene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0405332A-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d052503	Date of Collection:	NA
Dil. Factor:	100	Date of Analysis:	5/27/04 08:56 AM

Compound	%Recovery
Benzene	107
Toluene	109
Ethyl Benzene	113
m,p-Xylene	115
o-Xylene	110

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	99	70-130

Mr. Gregory J. Smith  
SMCHSA  
Groundwater Protection Program  
455 County Center  
Redwood City, CA 94063





**AIR TOXICS LTD.**

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

## **Air Toxics Ltd. Introduces the Electronic Report**

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

**180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630**

**(916) 985-1000 .FAX (916) 985-1020**

**Hours 8:00 A.M to 6:00 P.M. Pacific**

**E-mail to: [samplereceiving@airtoxics.com](mailto:samplereceiving@airtoxics.com)**



# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0405332B**

### Work Order Summary

<b>CLIENT:</b>	Mr. Brandon Wilken Cambria Environmental Technology 5900 Hollis Street Suite A Emeryville, CA 94608	<b>BILL TO:</b>	Mr. Brandon Wilken Cambria Environmental Technology 5900 Hollis Street Suite A Emeryville, CA 94608
<b>PHONE:</b>	510-420-0700	<b>P.O. #</b>	31C-1676
<b>FAX:</b>	510-420-9170	<b>PROJECT #</b>	61D-1964 9-2960
<b>DATE RECEIVED:</b>	05/20/04	<b>CONTACT:</b>	Taryn Badal
<b>DATE COMPLETED:</b>	06/02/04		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	SV1	Modified ASTM D-1946	5.5 "Hg
02A	SV2	Modified ASTM D-1946	5.0 "Hg
02AA	SV2 Duplicate	Modified ASTM D-1946	5.0 "Hg
03A	SV3	Modified ASTM D-1946	5.0 "Hg
04A	SV4	Modified ASTM D-1946	2.0 "Hg
05A	Lab Blank	Modified ASTM D-1946	NA
06A	LCS	Modified ASTM D-1946	NA

CERTIFIED BY:

Laboratory Director

DATE: 06/02/04

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630  
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**Modified ASTM D-1946**  
**Cambria Environmental Technology**  
**Workorder# 0405332B**

Four 6 Liter Summa Canister samples were received on May 20, 2004. The laboratory performed analysis via Modified ASTM Method D-1946 for fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample. See the data sheets for the reporting limits for each compound.

<b>Requirement</b>	<b>ASTM D-1946</b>	<b>ATL Modifications</b>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL (2.0 mL for He and H <sub>2</sub> ) on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 30% RPD for detections > 5 X's the RL.

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

# AIR TOXICS LTD.

SAMPLE NAME: SV1

ID#: 0405332B-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	04052115	Date of Collection:	5/18/04
File Ref:	1.64	Date of Analysis:	5/21/04 02:57 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	1.0
Carbon Dioxide	0.016	13

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: SV2

ID#: 0405332B-02A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	3052116	Date of Collection:	5/18/04
Oil Factor:	1.61	Date of Analysis:	5/21/04 03:34 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	1.7
Carbon Dioxide	0.016	11

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: SV2 Duplicate

ID#: 0405332B-02AA

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	3052117	Date of Collection:	5/18/04
Dil. Factor:	1.61	Date of Analysis:	5/21/04 04:15 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	1.7
Carbon Dioxide	0.016	11

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: SV3

ID#: 0405332B-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	0405332B-03A	Date of Collection:	5/18/04
Dil. Factor:	1.61	Date of Analysis:	5/21/04 03:58 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	20
Carbon Dioxide	0.016	0.47

Container Type: 6 Liter Summa Canister



# AIR TOXICS LTD.

SAMPLE NAME: SV4

ID#: 0405332B-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	3052118	Date of Collection:	5/18/04
Factor:	1.44	Date of Analysis:	5/21/04 04:38 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.14	22
Carbon Dioxide	0.014	1.2

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0405332B-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name	3052103	Date of Collection	NA
Dil Factor	1.00	Date of Analysis	5/21/04 09:45 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Carbon Dioxide	0.010	Not Detected

Container Type: NA - Not Applicable

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0405332B-06A

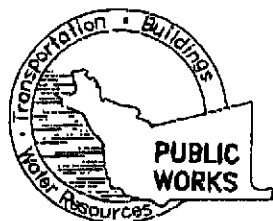
MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name	3052120	Date of Collection	NA
Dil Factor	100	Date of Analysis	03-27-04 05:20 PM

Compound	%Recovery
Oxygen	98
Carbon Dioxide	98

Container Type: NA - Not Applicable

**ATTACHMENT D**  
**ACPWA Well Permits**



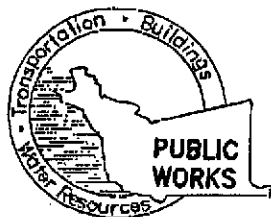
**ALAMEDA COUNTY PUBLIC WORKS AGENCY  
WATER RESOURCES SECTION  
399 ELMHURST ST. HAYWARD, CA. 94544-1395  
PHONE (510) 670-6633 James Yoo FAX (510) 782-1939**

**PERMIT NO. W04-0403**

---

**WATER RESOURCES SECTION  
GROUNDWATER PROTECTION ORDINANCE  
MW#2-GENERAL CONDITIONS: Vapor and Extraction wells**

- 1) Prior to any drilling activities shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or to the City and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained.
- 2) The minimum surface seal thickness two inches of cement grout placed by tremie.
- 3) All vapor wells shall have a minimum surface cement seal depth of five (5) feet or the maximum depth practicable or twenty (20) feet. All extraction wells shall have a minimum surface seal depth of two (2) feet or the maximum depth practicable or twenty (20) feet.
- 4) Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
- 5) Permittee, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
- 6) No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.
- 7) Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. **Permit is valid from April 13 to April 13, 2004.** Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
- 8) Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). **Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including: permit number and site map.**
- 9) Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.



## ALAMEDA COUNTY PUBLIC WORKS AGENCY

### WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD, CA. 94544-1395

PHONE (510) 670-6633 James Yoo FAX (510) 782-1939

**PERMIT NO. W04-0404**

### WATER RESOURCES SECTION GROUNDWATER PROTECTION ORDINANCE

#### **B#1-GENERAL CONDITIONS: GEOTECHNICAL & CONTAMINATION BOREHOLES**

1. Prior to any drilling activities shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that Federal, State, County or to the City and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained.
2. Boreholes shall not be left open for a period of more than **24 hours**. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statues regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
4. Permit is valid only for the purpose specified herein **April 13 to April 13, 2004**. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.
5. Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
6. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employces free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.