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

BORING / WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	VP-1
JOB/SITE NAME	9-0076	**DRILLING STARTED**	21-Nov-05
LOCATION	4265 Foothill Boulevard, Oakland CA	**DRILLING COMPLETED**	22-Nov-05
PROJECT NUMBER	31J-1977	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Cambria	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3"	**SCREENED INTERVALS**	NA
LOGGED BY	C. Evans	**DEPTH TO WATER (First Encountered)**	5.00 fbg (21-Nov-05) ▽
REVIEWED BY	B. Foss PG #7445	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Vapor Probe Installed		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt		Portland Type I/II
								1.0	
					ML		**Clayey SILT with Sand and Gravel** Dark Brown/Black; dry; stiff; 40% silt, 35% clay, 15% sand fine grained sand, 10% gravel; moderate plasticity; low estimated permeability. No odor @2-feet: Change in the following parameters: 85% silt, 10% clay, 5% fine grained sand.		Bentonite Seal
							Sandy SILT: Light Brown/Tan. 75% Silt, 20% coarse grained sand, 5% clay, damp, medium plasticity, low estimated permiability. ▽	5.0	
				5					Monterey Sand #2/16
					GW		**Sandy GRAVEL with Fines**: Light Brown; wet; 70% gravel, 20% sand; 10% silt, low plasticity; high estimated permeability.		Bentonite Seal
		VP-1@ 7						7.5	Bottom of Boring @ 7.5 fbg

WELL LOG (PID) I:\CHEVRON\3119--\311977--\311977-419-0076-119-0076.GPJ DEFAULT.GDT 2/10/09

Cambria Environmental Technology, Inc.
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Emeryville, CA 94608
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BORING / WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	VP-2
JOB/SITE NAME	9-0076	**DRILLING STARTED**	21-Nov-05
LOCATION	4265 Foothill Boulevard, Oakland CA	**DRILLING COMPLETED**	22-Nov-05
PROJECT NUMBER	31J-1977	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Cambria	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3"	**SCREENED INTERVALS**	NA
LOGGED BY	C. Evans	**DEPTH TO WATER (First Encountered)**	6.50 fbg (21-Nov-05) ▽
REVIEWED BY	B. Foss PG #7445	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Vapor Probe Installed		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	1.0	Portland Type I/II
					SM		**Clayey SILT with Well Graded Sand** Light Brown; 55% Silt, 25% clay, 20% sand.		Bentonite Seal
							@ 4-feet: 75% Silt, 20% coarse grained sand, 5% clay; no odor.	5.0	Monterey Sand #2/16
				5			**Sandy GRAVEL** Light Brown; damp, 80% sub-angular gravel, 20% well graded sand.		
		VP-2@ 6.5					@ 6.5-feet: Wet ▽	7.0	
							Clayey SILT with Sand Light Brown; 45% silt, 40% clay, 10% well graded sand, 5% gravel. Stiff, wet, slight odor.	8.0	Bentonite Seal
							Clayey Sandy GRAVEL with Silt Light Brown; 40% gravel, 30% clay, 20% sand, 10% silt.		
				10				10.0	Bottom of Boring @ 10 fbg

WELL LOG (PID) I:\CHEVRON\3119-1311977-1311977-49-0076-119-0076.GPJ DEFAULT.GDT 2/10/09

Cambria Environmental Technology, Inc.
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BORING / WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	VP-3
JOB/SITE NAME	9-0076	**DRILLING STARTED**	21-Nov-05
LOCATION	4265 Foothill Boulevard, Oakland CA	**DRILLING COMPLETED**	22-Nov-05
PROJECT NUMBER	31J-1977	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Cambria	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3"	**SCREENED INTERVALS**	NA
LOGGED BY	C. Evans	**DEPTH TO WATER (First Encountered)**	5.60 fbg (21-Nov-05) ▽
REVIEWED BY	B. Foss PG #7445	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Vapor Probe Installed		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	1.0	Portland Type I/II
					ML		**Clayey Sandy SILT**:Dark Brown; 55% Silt, 25% clay, 20% sand, soft, dry.		Bentonite Seal
							Sandy SILT with Clay Dark Brown; 75% silt, 20% coarse grained sand, 5% clay, damp.	4.5	
				5	GW		**Sandy GRAVEL**: Light Brown; 75% gravel, 25% well graded sand, wet, no odor. ▽ @5.6-feet: Wet.		Monterey Sand #2/16
		VP-3@ 6						6.5	Bentonite Seal
									Bottom of Boring @ 6.5 fbg

WELL LOG (PID) I:\CHEVRON\3119-1311977-1\1311977-419-0076-119-0076.GPJ DEFAULT.GDT 2/10/09

Table 1. Analytic Results for Soil Compared to ESLs - Chevron Station 9-0076 4265 Foothill Blvd., Oakland, CA

Sample ID	Sample Date	Sample Depth (fbg)	TPHg	B	T	E	X[1]
			Concentrations in mg/kg				
VP-1	11/21/05	7.0-7.5	<1.0	<0.0005	<0.001	<0.001	<0.001
VP-2	11/21/05	6.5-7.0	<1.0	<0.0005	<0.001	<0.001	<0.001
VP-3	11/21/05	5.5-6.0	<1.0	<0.0005	<0.001	<0.001	<0.001
ESLs	February-05	<10	100.0	0.18	9.3	32	11

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX) by Modified EPA Method 8260B.

ESL = Environmental screening level.

1 = Values for total Xylenes detected.

fbg = Feet below grade.

<x = Not detected above method detection limit.

All ESL values taken from the RWQCB-SFBR's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater - Interim Final* , published February, 2005.

ESL values are for shallow soil (≤3m) for residential land use where groundwater is not a current or potential source of drinking water.

Table 1. Analytic Results for Soil Compared to ESLs - Chevron Station 9-0076 4265 Foothill Blvd., Oakland, CA

Sample ID	Sample Date	Sample Depth (fbg)	MTBE	TBA	EDB	1,2-DCA	DIPE[2]	ETBE[2]	TAME[2]
			Concentrations in mg/kg						
VP-1	11/21/05	7.0-7.5	0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
VP-2	11/21/05	6.5-7.0	0.002	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
VP-3	11/21/05	5.5-6.0	0.002	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
ESLs	February-05	<10	2	57	0.0073	0.025	--	--	--

Abbreviations/Notes:

Methyl tert butyl ether (MTBE), di-Isopropyl ether, ethyl t-butyl ether, t-Amyl methyl ether, t-Butyl alcohol, 1,2-Dibromoethane (EDB), and 1,2-Dichloroethane (1,2-DCA) by Modified EPA Method 8260B.

ESL = Environmental screening level.

2 = There are no established ESLs for these constituents.

fbg = Feet below grade.

<x = Not detected above method detection limit.

All ESL values taken from the RWQCB-SFBR's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater - Interim Final,* published February, 2005.

ESL values are for shallow soil (≤3m) for residential land use where groundwater is not a current or potential source of drinking water.

Table 2. Analytic Results for Soil Vapor - Chevron Station 9-0076 4265 Foothill Blvd., Oakland, CA

Sample ID	Sample Date	Collection Time (min)	TPHg	B	T	E	X[1]	MTBE	2-Propanol[2,3]
			Concentrations reported in micrograms per cubic meter - µg/m^3						
VP-1	2/10/06	41	<970	<38	<45	<52	<52	<43	<29
VP-2	02/10/06	41	7,500	<37	<44	<50	<50	<42	58
VP-2*	02/10/06	41	7,500	<36	<42	<49	<49	<40	<28
VP-3	02/10/06	NS	NS	NS	NS	NS	NS	NS	

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX), methyl tert butyl ether (MTBE), and 2-Propanol by Modified EPA Method TO-15.

<x = Not detected above method detection limit.

1 = Values for highest value of Xylenes detected.

2 = There are no established ESLs for this constituents.

3 = Used to determine if any leakage occurred while sampling.

* = Field duplicate collected simultaneously with original sample.

ESL = Environmental screening level.

All ESL values taken from the RWQCB-SFBR's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater - Interim Final,* published February, 2005.

ESL values are for shallow soil gas (<5 fbg) for residential land use.

Table 1. Analytic Results for Soil Compared to ESLs - Chevron Station 9-0076 4265 Foothill Blvd., Oakland, CA

Sample ID	Sample Date	Sample Depth (fbg)	TPHg	B	T	E	X[1]
			Concentrations in mg/kg				
VP-1	11/21/05	7.0-7.5	<1.0	<0.0005	<0.001	<0.001	<0.001
VP-2	11/21/05	6.5-7.0	<1.0	<0.0005	<0.001	<0.001	<0.001
VP-3	11/21/05	5.5-6.0	<1.0	<0.0005	<0.001	<0.001	<0.001
ESLs	February-05	<10	100.0	0.18	9.3	32	11

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX) by Modified EPA Method 8260B.

ESL = Environmental screening level.

1 = Values for total Xylenes detected.

fbg = Feet below grade.

<x = Not detected above method detection limit.

All ESL values taken from the RWQCB-SFBR's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater - Interim Final* , published February, 2005.

ESL values are for shallow soil (≤3m) for residential land use where groundwater is not a current or potential source of drinking water.

Table 1. Analytic Results for Soil Compared to ESLs - Chevron Station 9-0076 4265 Foothill Blvd., Oakland, CA

Sample ID	Sample Date	Sample Depth (fbg)	MTBE	TBA	EDB	1,2-DCA	DIPE[2]	ETBE[2]	TAME[2]
			Concentrations in mg/kg						
VP-1	11/21/05	7.0-7.5	0.001	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
VP-2	11/21/05	6.5-7.0	0.002	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
VP-3	11/21/05	5.5-6.0	0.002	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
ESLs	February-05	<10	2	57	0.0073	0.025	--	--	--

Abbreviations/Notes:

Methyl tert butyl ether (MTBE), di-Isopropyl ether, ethyl t-butyl ether, t-Amyl methyl ether, t-Butyl alcohol, 1,2-Dibromoethane (EDB), and 1,2-Dichloroethane (1,2-DCA) by Modified EPA Method 8260B.

ESL = Environmental screening level.

2 = There are no established ESLs for these constituents.

fbg = Feet below grade.

<x = Not detected above method detection limit.

All ESL values taken from the RWQCB-SFBR's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater - Interim Final,* published February, 2005.

ESL values are for shallow soil (≤3m) for residential land use where groundwater is not a current or potential source of drinking water.

Table 2. Analytic Results for Soil Vapor - Chevron Station 9-0076 4265 Foothill Blvd., Oakland, CA

Sample ID	Sample Date	Collection Time (min)	TPHg	B	T	E	X[1]	MTBE	2-Propanol[2,3]
			Concentrations reported in micrograms per cubic meter - µg/m^3						
VP-1	2/10/06	41	<970	<38	<45	<52	<52	<43	<29
VP-2	02/10/06	41	7,500	<37	<44	<50	<50	<42	58
VP-2*	02/10/06	41	7,500	<36	<42	<49	<49	<40	<28
VP-3	02/10/06	NS	NS	NS	NS	NS	NS	NS	

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX), methyl tert butyl ether (MTBE), and 2-Propanol by Modified EPA Method TO-15.

<x = Not detected above method detection limit.

1 = Values for highest value of Xylenes detected.

2 = There are no established ESLs for this constituents.

3 = Used to determine if any leakage occurred while sampling.

* = Field duplicate collected simultaneously with original sample.

ESL = Environmental screening level.

All ESL values taken from the RWQCB-SFBR's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater - Interim Final,* published February, 2005.

ESL values are for shallow soil gas (<5 fbg) for residential land use.

Table 2. Analytic Results for Soil Vapor - Chevron Station 9-0076 4265 Foothill Blvd., Oakland, CA

Sample ID	Sample Date	Probe Depth Interval (fbg)	Collection Time (minutes)	TPHg	B	T	E	X[a]	1,2-DCA	EDB	Naphthalene	2-propanol	Isobutane[b]
				Concentrations reported in micrograms per cubic meter - µg/m^3									
VP-1	02/10/06	5.5-6.0	41	<970[c]	<38	<45	<52	<52	NS	NS	NS	<29	NA
VP-1**	02/10/06												
VP-1	09/27/06	5.5-6.0	10	**2,800**	<3.6	<4.2	<4.9	**12**	<4.5	<8.6	<23	NA	ND
VP-2	02/10/06	5.5-6.0	41	**7,500[c]**	<37	<44	<50	<50	NS	NS	NS	58	NA
VP-2*	02/10/06	5.5-6.0	41	**7,500[c]**	<36	<42	<49	<49	NS	NS	NS	<28	NA
VP-2	09/27/06	5.5-6.0	11	**34,000**	<14	<17	<19	<19	<18	<34	<94	NA	380
VP-2*	09/27/06	5.5-6.0	11	**35,000**	<15	<17	<20	<20	<18	<35	<96	NA	380
VP-2*(**)	09/27/06			**35,000**	NA	NA	NA	NA	NA	NA	NA	NA	NA
VP-3	02/10/06	5.5-6.0		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-3	09/27/06	5.5-6.0	9	**1,400**	<3.7	**4.6**	<5.0	<5.0	<4.7	<9.0	<24	NA	69
VP-3**	09/27/06			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg) by Modified EPA Method TO-3.

Benzene, toluene, ethylbenzene and xylenes (BTEX), methyl tertiary butyl ether (MTBE), 1,2-dicholoroethane (1,2-DCA), 1,2-dibromoethane (EDB), naphthalene, 2-propanol, isobutane, methyl tert-butyl ether (MTBE), ethly-tert-butyl ether (ETBE), tert-Butyl alcohol (TBA), tert-Amyl methyl ether (TAME), Isopropyl ether (DIPE), and ethanol by Modified EPA Method to-15.

Oxygen, methane, and carbon dioxide by ASTM D-1946.

2-propanol and isobutane were used as leak test compounds per DTSC guidelines in *Advisory - Active Soil Gas Investigations* , published January 2003.

fbg = Feet below grade.

<x = Not detected above method detection limit.

NA = Not analyzed

NS = Not sampled; screened interval submerged.

ND = Not detected

a = Values for highest value of Xylenes detected.

b = Originally reported in part per billion by volume (ppbv) and converted to µg/m3 using Air Toxics Units Conversion Calculator

c = In 1Q06, TPHg was analyzed by Modified EPA Method TO-15.

* = Field duplicate collected simultaneously with original sample.

** = Lab method duplicate.

Table 2. Analytic Results for Soil Vapor - Chevron Station 9-0076 4265 Foothill Blvd., Oakland, CA

Sample ID	Sample Date	Probe Depth Interval (fbg)	Collection Time (minutes)	MTBE	ETBE	TBA	TAME	DIPE	Ethanol	Oxygen	Methane	Carbon dioxide
				Concentrations reported in micrograms per cubic meter - µg/m3							(% volume)	
VP-1	02/10/06	5.5-6.0	41	<43	NA	NA	NA	NA	NA	3.9	NA	8.5
VP-1**	02/10/06			NA	NA	NA	NA	NA	NA	3.9	NA	8.5
VP-1	09/27/06	5.5-6.0	10	<4.0	<19	<14	<19	<19	<8.4	3.4	<0.00022	16
VP-2	02/10/06	5.5-6.0	41	<42	NA	NA	NA	NA	NA	1.7	NA	9.2
VP-2*	02/10/06	5.5-6.0	41	<40	NA	NA	NA	NA	NA	1.7	NA	9.2
VP-2	09/27/06	5.5-6.0	11	<16	<75	<54	<75	<75	<34	1.6	0.9	16
VP-2*	09/27/06	5.5-6.0	11	<16	<76	<56	<76	<76	<34	1.5	0.92	16
VP-2*(**)	09/27/06			NA	NA	NA	NA	NA	NA	NA	NA	NA
VP-3	02/10/06	5.5-6.0		NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-3	09/27/06	5.5-6.0	9	<4.2	<19	<14	<19	<19	<8.8	4.3	0.0018	10
VP-3**	09/27/06			NA	NA	NA	NA	NA	NA	4.3	0.0018	10

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg) by Modified EPA Method TO-3.

Benzene, toluene, ethylbenzene and xylenes (BTEX), methyl tertiary butyl ether (MTBE), 1,2-dicholoroethane (1,2-DCA), 1,2-dibromoethane (EDB), naphthalene, 2-propanol, isobutane, methyl tert-butyl ether (MTBE), ethly-tert-butyl ether (ETBE), tert-Butyl alcohol (TBA), tert-Amyl methyl ether (TAME), Isopropyl ether (DIPE), and ethanol by Modified EPA Method to-15.

Oxygen, methane, and carbon dioxide by ASTM D-1946.

2-propanol and isobutane were used as leak test compounds per DTSC guidelines in *Advisory - Active Soil Gas Investigations* , published January 2003.

fbg = Feet below grade.

<x = Not detected above method detection limit.

NA = Not analyzed

NS = Not sampled; screened interval submerged.

ND = Not detected

a = Values for highest value of Xylenes detected.

b = Originally reported in part per billion by volume (ppbv) and converted to µg/m3 using Air Toxics Units Conversion Calculator

c = In 1Q06, TPHg was analyzed by Modified EPA Method TO-15.

* = Field duplicate collected simultaneously with original sample.

** = Lab method duplicate.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 968629. Samples arrived at the laboratory on Wednesday, November 23, 2005. The PO# for this group is 99011184 and the release number is INGLIS.

Client Description			Lancaster Labs Number
VP-3-S-5.5-051121	Grab	Soil	4655929
VP-2-S-6.5-051121	Grab	Soil	4655930
VP-1-S-7.0-051121	Grab	Soil	4655931

1 COPY TO Cambria Environmental Attn: Bob Foss

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. SW 4655929

VP-3-S-5.5-051121 Grab Soil
Facility# 90076 CETR
4265 Foothill-Oakland T0600100339 VP-3
Collected:11/21/2005 12:10 by CE Account Number: 10880

Submitted: 11/23/2005 09:20 ChevronTexaco
Reported: 12/02/2005 at 22:47 6001 Bollinger Canyon Rd L4310
Discard: 01/02/2006 San Ramon CA 94583

FOVP3

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+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.002	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 GRO	1	12/01/2005 03:24	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/28/2005 19:45	Angela D Sneeringer	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/28/2005 12:14	Angela D Sneeringer	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	11/23/2005 17:41	Eric L Vera	n.a.

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 4655930

VP-2-S-6.5-051121 Grab Soil
Facility# 90076 CETR
4265 Foothill-Oakland T0600100339 VP-2
Collected:11/21/2005 13:11 by CE

Account Number: 10880

Submitted: 11/23/2005 09:20
Reported: 12/02/2005 at 22:47
Discard: 01/02/2006

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FOVP2

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+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.002	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.99

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 GRO	1	12/01/2005 04:01	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/28/2005 20:07	Angela D Sneeringer	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/28/2005 12:15	Angela D Sneeringer	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	11/23/2005 18:20	Eric L Vera	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 4655931

VP-1-S-7.0-051121 Grab Soil
Facility# 90076 CETR
4265 Foothill-Oakland T0600100339 VP-1
Collected:11/21/2005 15:20 by CE

Account Number: 10880

Submitted: 11/23/2005 09:20
Reported: 12/02/2005 at 22:47
Discard: 01/02/2006

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FOVP1

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+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.001	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 GRO	1	12/01/2005 04:37	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/28/2005 22:43	Angela D Sneeringer	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/28/2005 20:47	Emiley A King	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	11/23/2005 18:23	Eric L Vera	n.a.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco Group Number: 968629
Reported: 12/02/05 at 10:47 PM

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

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05334A31A	Sample number(s): 4655929-4655931							
TPH-GRO - Soils	N.D.	1.0	mg/kg	83		67-119		
Batch number: A053321AA	Sample number(s): 4655929-4655931							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	105		75-125		
di-Isopropyl ether	N.D.	1.	ug/kg	103		70-129		
Ethyl t-butyl ether	N.D.	1.	ug/kg	103		62-131		
t-Amyl methyl ether	N.D.	1.	ug/kg	105		63-129		
t-Butyl alcohol	N.D.	20.	ug/kg	83		59-142		
Benzene	N.D.	0.5	ug/kg	113		77-119		
1,2-Dichloroethane	N.D.	1.	ug/kg	110		76-126		
Toluene	N.D.	1.	ug/kg	99		81-116		
1,2-Dibromoethane	N.D.	1.	ug/kg	95		77-114		
Ethylbenzene	N.D.	1.	ug/kg	100		82-115		
Xylene (Total)	N.D.	1.	ug/kg	101		82-117		

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: 05334A31A	Sample number(s): 4655929-4655931								
TPH-GRO - Soils	66	71	39-118	6	30				
Batch number: A053321AA	Sample number(s): 4655929-4655931								
Methyl Tertiary Butyl Ether	100	93	47-130	8	30				
di-Isopropyl ether	96	92	56-130	5	30				
Ethyl t-butyl ether	98	93	57-122	5	30				
t-Amyl methyl ether	98	93	58-119	6	30				
t-Butyl alcohol	76	74	51-134	3	30				
Benzene	90	80	67-123	12	30				
1,2-Dichloroethane	97	88	62-130	10	30				
Toluene	81	67	49-132	17	30				
1,2-Dibromoethane	82	69	62-116	18	30				
Ethylbenzene	80	66	50-127	19	30				
Xylene (Total)	75	62	44-127	19	30				

Surrogate Quality Control

*- 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 Group Number: 968629
Reported: 12/02/05 at 10:47 PM

Surrogate Quality Control

Analysis Name: TPH-GRO - Soils
Batch number: 05334A31A

	Trifluorotoluene-F
4655929	78
4655930	77
4655931	77
Blank	102
LCS	96
MS	85
MSD	90
Limits:	61-122

Analysis Name: BTEX+5 Oxygenates+EDC+EDB
Batch number: A053321AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4655929	94	88	87	82
4655930	94	89	87	87
4655931	96	89	86	81
Blank	97	94	86	84
LCS	95	94	88	88
MS	98	93	93	80
MSD	98	91	91	84
Limits:	71-114	70-109	70-123	70-111

*- 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

Lancaster Laboratories
Where quality is a science.

112205-06

For Lancaster Laboratories use only
Acct. #: 10880 Sample #: 4655929-31 SCR#: 240609

Group# 968629

Facility #: 9-0076 - ALAM 11/29/05
Site Address: 4265 Foothill Blvd. Oakland
Chevron PM: M. Inglis Lead Consultant: Cambria
Consultant/Office: Cambria - Emeryville
Consultant Prj. Mgr.: B. Foss
Consultant Phone #: 510-420-3348 Fax #: 510-420-9170
Sampler: C Evans
Service Order #: 314-1977 ☐ Non SAR:

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 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	7 Oxygenates by 8260B	Lead 7420 ☐ 7421 ☐	Moisture content	Bulk density	Porosity	Organic carbon	Effective permeability
VP-3	S		5.5	05 11 21	12:10	Y	X		1	X	X			X						
VP-2	S		6.5	05 11 21	13:11	Y	X		1	X	X			X						
VP-1	S		7.0	05 11 21	15:20	Y	X		1	X	X			X						
VP-3	S		6.0	05 11 22	10:15	Y	X		1							X	X	X	X	X

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 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

Comments / Remarks
7 OXYs - BTEX, MTBE, TBA, TAME, ETBE, DIPE, 1,2-DCA, EDB, TPHg

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:	Date	Time	Received by:	Date	Time
C Evans	11/22/05	13:50	Cynthia Leonhardt	11/22/05	1350
Cynthia Leonhardt	11/22/05		DHL	11/22/05	

Relinquished by Commercial Carrier: UPS FedEx Other ____
Temperature Upon Receipt 3.4° C°

Received by: Date 11/23/05 Time 0920
Custody Seals Intact? Yes No

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm 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.

ppb parts per billion

Dry weight basis 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

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	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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This electronic report includes the following:

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

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WORK ORDER #: 0602316B

Work Order Summary

CLIENT:	Mr. Bob Foss Cambria Environmental Technology 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Bob Foss Cambria Environmental Technology 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-0700	**P.O. #**	3IJ-1977
FAX:	510-420-9170	**PROJECT #**	31J-1977 9-0076
DATE RECEIVED:	02/14/2006	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	02/28/2006		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VP-2	Modified ASTM D-1946	4.0 "Hg
02A	VP-2 duplicate	Modified ASTM D-1946	3.0 "Hg
03A	VP-1	Modified ASTM D-1946	4.5 "Hg
03AA	VP-1 Duplicate	Modified ASTM D-1946	4.5 "Hg
04A	Trip Blank	Modified ASTM D-1946	24.5 "Hg
05A	Lab Blank	Modified ASTM D-1946	NA
06A	LCS	Modified ASTM D-1946	NA

CERTIFIED BY: Linda D. Fruman DATE: 02/28/06

Laboratory Director

Certfication numbers: 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: 07/01/05, Expiration date: 06/30/06
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified ASTM D-1946
Cambria Environmental Technology
Workorder# 0602316B

Four 1 Liter Summa Canister (100% Certified) samples were received on February 14, 2006. The laboratory performed analysis via Modified ASTM Method D-1946 for fixed gases in air using GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples include:

Requirement	***ASTM D-1946***	***ATL Modifications***
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 >/= 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 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

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Summary of Detected Compounds
MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: VP-2

Lab ID#: 0602316B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.7
Carbon Dioxide	0.023	9.2

Client Sample ID: VP-2 duplicate

Lab ID#: 0602316B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.7
Carbon Dioxide	0.022	9.2

Client Sample ID: VP-1

Lab ID#: 0602316B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	3.9
Carbon Dioxide	0.024	8.5

Client Sample ID: VP-1 Duplicate

Lab ID#: 0602316B-03AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	3.9
Carbon Dioxide	0.024	8.5

Client Sample ID: Trip Blank

Lab ID#: 0602316B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	1.5

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Client Sample ID: VP-2

Lab ID#: 0602316B-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9022119b**	**Date of Collection: 2/10/06**	
Dil. Factor:	**2.33**	**Date of Analysis: 2/21/06 05:34 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.7
Carbon Dioxide	0.023	9.2

Container Type: 1 Liter Summa Canister (100% Certified)

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Client Sample ID: VP-2 duplicate

Lab ID#: 0602316B-02A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9022120b**	**Date of Collection: 2/10/06**	
Dil. Factor:	**2.24**	**Date of Analysis: 2/21/06 06:01 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.7
Carbon Dioxide	0.022	9.2

Container Type: 1 Liter Summa Canister (100% Certified)

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Client Sample ID: VP-1

Lab ID#: 0602316B-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9022121b**	**Date of Collection: 2/10/06**	
Dil. Factor:	**2.38**	**Date of Analysis: 2/21/06 06:23 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	3.9
Carbon Dioxide	0.024	8.5

Container Type: 1 Liter Summa Canister (100% Certified)

AIR TOXICS LTD.

Client Sample ID: VP-1 Duplicate

Lab ID#: 0602316B-03AA

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9022122b**	**Date of Collection: 2/10/06**	
Dil. Factor:	**2.38**	**Date of Analysis: 2/21/06 06:45 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	3.9
Carbon Dioxide	0.024	8.5

Container Type: 1 Liter Summa Canister (100% Certified)

AIR TOXICS LTD.

Client Sample ID: Trip Blank

Lab ID#: 0602316B-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9022123b**	**Date of Collection: 2/10/06**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/21/06 07:07 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	1.5
Carbon Dioxide	0.010	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0602316B-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9022105b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/21/06 10:08 AM**	

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

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 0602316B-06A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9022129b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/21/06 10:03 PM**	

Compound	%Recovery
Oxygen	100
Carbon Dioxide	102

Container Type: NA - Not Applicable

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WORK ORDER #: 0602316A

Work Order Summary

CLIENT:	Mr. Bob Foss Cambria Environmental Technology 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Bob Foss Cambria Environmental Technology 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-0700	**P.O. #**	3IJ-1977
FAX:	510-420-9170	**PROJECT #**	31J-1977 9-0076
DATE RECEIVED:	02/14/2006	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	02/28/2006		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VP-2	Modified TO-15	4.0 "Hg
02A	VP-2 duplicate	Modified TO-15	3.0 "Hg
03A	VP-1	Modified TO-15	4.5 "Hg
04A	Trip Blank	Modified TO-15	24.5 "Hg
05A	Lab Blank	Modified TO-15	NA
06A	CCV	Modified TO-15	NA
07A	LCS	Modified TO-15	NA

CERTIFIED BY: Linda J. Fruman DATE: 02/28/06

Laboratory Director

Certfication 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: 07/01/05, Expiration date: 06/30/06
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
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LABORATORY NARRATIVE
Modified TO-14A GC/MS/FID
Cambria Environmental Technology
Workorder# 0602316A

Four 1 Liter Summa Canister (100% Certified) samples were received on February 14, 2006. The laboratory performed the analysis via Modified Method TO-14A using GC/MS/FID. The method involves direct injection of a sample aliquot into a vapor management system. The sample passes directly into the GC/MS/FID for analysis following dehumidification. The TPH results are calculated using a response factor derived from Gasoline. A molecular weight of 100 is used to convert the TPH ppbv result to ug/m3.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-14A***	***ATL Modifications***
Sample Drying System	Nafion Drier	Multisorbent
Blank Acceptance Criteria	< 0.2 ppbv	< RL
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.
RT Window Study (FID Only)	Mean +- 3 X STD within 72 hrs.	+/- 0.08 min. (Mean +/- 3 X STD < 0.08 min.)

Receiving Notes

The sample Trip Blank, was received at low vacuum (<25"Hg). The client was notified and requested the analysis proceed.

Analytical Notes

The recovery for 2-Propanol in the LCS analyzed on 2/17/06 was outside the laboratory control limits.

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 no 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

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15

Client Sample ID: VP-2

Lab ID#: 0602316A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	12	24	29	58
TPH (C5+ Hydrocarbons) ref. to Gasoline	230	1800	950	7500

Client Sample ID: VP-2 duplicate

Lab ID#: 0602316A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (C5+ Hydrocarbons) ref. to Gasoline	220	1800	920	7500

Client Sample ID: VP-1

Lab ID#: 0602316A-03A

No Detections Were Found.

Client Sample ID: Trip Blank

Lab ID#: 0602316A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	5.0	6.2	12	15

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Client Sample ID: VP-2

Lab ID#: 0602316A-01A

MODIFIED EPA METHOD TO-15

File Name:	**3021714**	**Date of Collection: 2/10/06**	
Dil. Factor:	**2.33**	**Date of Analysis: 2/17/06 01:33 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	12	Not Detected	37	Not Detected
Toluene	12	Not Detected	44	Not Detected
Ethyl Benzene	12	Not Detected	50	Not Detected
m,p-Xylene	12	Not Detected	50	Not Detected
o-Xylene	12	Not Detected	50	Not Detected
2-Propanol	12	24	29	58
Methyl tert-butyl ether	12	Not Detected	42	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	230	1800	950	7500

TPH (C5+ Hydrocarbons) ref. to Gasoline results are reported from file D022108.d, analyzed on February 21, 2006, at a dilution factor of 2.33.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Client Sample ID: VP-2 duplicate

Lab ID#: 0602316A-02A

MODIFIED EPA METHOD TO-15

File Name:	**3021716**	**Date of Collection: 2/10/06**	
Dil. Factor:	**2.24**	**Date of Analysis: 2/17/06 02:26 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	11	Not Detected	36	Not Detected
Toluene	11	Not Detected	42	Not Detected
Ethyl Benzene	11	Not Detected	49	Not Detected
m,p-Xylene	11	Not Detected	49	Not Detected
o-Xylene	11	Not Detected	49	Not Detected
2-Propanol	11	Not Detected	28	Not Detected
Methyl tert-butyl ether	11	Not Detected	40	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	220	1800	920	7500

TPH (C5+ Hydrocarbons) ref. to Gasoline results are reported from file D022107.d, analyzed on February 21, 2006, at a dilution factor of 2.24.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130

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Client Sample ID: VP-1

Lab ID#: 0602316A-03A

MODIFIED EPA METHOD TO-15

File Name:	**3021717**	**Date of Collection: 2/10/06**	
Dil. Factor:	**2.38**	**Date of Analysis: 2/17/06 03:16 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	12	Not Detected	38	Not Detected
Toluene	12	Not Detected	45	Not Detected
Ethyl Benzene	12	Not Detected	52	Not Detected
m,p-Xylene	12	Not Detected	52	Not Detected
o-Xylene	12	Not Detected	52	Not Detected
2-Propanol	12	Not Detected	29	Not Detected
Methyl tert-butyl ether	12	Not Detected	43	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	240	Not Detected	970	Not Detected

TPH (C5+ Hydrocarbons) ref. to Gasoline results are reported from file D022109.d, analyzed on February 21, 2006, at a dilution factor of 2.38.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

AIR TOXICS LTD.

Client Sample ID: Trip Blank

Lab ID#: 0602316A-04A

MODIFIED EPA METHOD TO-15

File Name:	**3021718**	**Date of Collection: 2/10/06**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/17/06 03:40 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	5.0	Not Detected	16	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
2-Propanol	5.0	6.2	12	15
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	100	Not Detected	410	Not Detected

TPH (C5+ Hydrocarbons) ref. to Gasoline results are reported from file D022110.d, analyzed on February 21, 2006, at a dilution factor of 1.00.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130

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Client Sample ID: Lab Blank

Lab ID#: 0602316A-05A

MODIFIED EPA METHOD TO-15

File Name:	**3021704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/17/06 07:41 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	5.0	Not Detected	16	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
2-Propanol	5.0	Not Detected	12	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	100	Not Detected	410	Not Detected

TPH (C5+ Hydrocarbons) ref. to Gasoline results are reported from file D022106.d, analyzed on February 21, 2006, at a dilution factor of 1.00.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0602316A-06A

MODIFIED EPA METHOD TO-15

File Name:	**3021702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/17/06 06:53 AM**	

Compound	**%Recovery**
Benzene	100
Toluene	101
Ethyl Benzene	97
m,p-Xylene	98
o-Xylene	93
2-Propanol	78
Methyl tert-butyl ether	89
TPH (C2+ Hydrocarbons) ref. to Gasoline	90

TPH (C5+ Hydrocarbons) ref. to Gasoline results are reported from file D022102.d, analyzed on February 21, 2006, at a dilution factor of 1.00.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0602316A-07A

MODIFIED EPA METHOD TO-15

File Name:	**3021703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/17/06 07:17 AM**	

Compound	**%Recovery**
Benzene	98
Toluene	96
Ethyl Benzene	96
m,p-Xylene	95
o-Xylene	87
2-Propanol	69 Q
Methyl tert-butyl ether	87
TPH (C2+ Hydrocarbons) ref. to Gasoline	89

Q = Exceeds Quality Control limits.

TPH (C5+ Hydrocarbons) ref. to Gasoline results are reported from file D022105.d, analyzed on February 21, 2006, at a dilution factor of 1.00.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130