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Alameda County
Environmental Health

GEOTECHNICAL
ENVIRONMENTAL
WATER RESOURCES
CONSTRUCTION SERVICES

Project No.
7584.100.101

August 15, 2008

Mr. Robert Strong
500 Bollinger Canyon Way, Suite A4
San Ramon, CA 94583

Subject: 224 Rickenbacker Circle
Livermore, California

RESULTS OF ADDITIONAL SOIL GAS SAMPLING

- References:
1. ENGEO Incorporated, Interim Site Characterization Report, 224 Rickenbacker Circle, Livermore, California; February 8, 2007.
 2. ENGEO Incorporated, Soil and Groundwater Sampling Results, 224 Rickenbacker Circle, Livermore, California; March 15, 2007.
 3. ENGEO Incorporated, Additional Site Characterization Results, 224 Rickenbacker Circle, Livermore, California; April 8, 2008.

Dear Mr. Strong:

ENGEO Incorporated is pleased to present our findings regarding the additional soil gas sampling survey completed for 224 Rickenbacker Circle (Property) in Livermore, California. The soil gas assessment was requested by Alameda County Health Services Agency (ACHSA) in a letter dated May 12, 2008. A work plan to conduct additional soil gas sampling was developed in response to the letter dated May 12, 2008, and subsequently approved by ACHSA in a letter dated June 13, 2008. The purpose of the proposed activities was to address the discrepancies in the reported soil gas concentrations from the samples analyzed by an on-site mobile laboratory and those analyzed at a fixed-base laboratory.

Field Activities

On June 18, 2008, under the supervision of ENGEO, soil gas samples were recovered from six locations at the Property as depicted on Figure 1. The locations were selected to be adjacent to previous sampling points which exhibited elevated VOC concentrations.

Soil gas samples were collected using protocols and procedures consistent with "Advisory - Active Soil Gas Investigations dated January 13, 2003" (Los Angeles Regional Water Quality Control Board and DTSC). Direct-push soil gas probes consisting of a 2-inch-diameter rod were pushed to approximately 5 feet below the ground surface. Small-diameter non-reusable sampling tubes were utilized at each sampling location. Hydrated bentonite was used to seal around the drive rod and the inner soil gas pathway from probe tip to the surface was continuously sealed.

Each probe was allowed to equilibrate for approximately 30 minutes following installation. After the 30-minute equilibration period, a purge volume test was conducted using the onsite mobile laboratory. Analytical results indicated that seven purge volumes yielded the best sample recovery. The system was purged using the syringe and then soil gas samples were recovered using a syringe and transferred directly to an on-site mobile laboratory and analyzed immediately. Minimal lag time between sample collection and analysis was maintained, ensuring that the integrity of the sample. The samples were analyzed on a gas chromatograph equipped with capillary columns and a combination of mass spectrometer (GC/MS), TCD, and FID detectors as needed, for VOCs using EPA Method 8260. For quality assurance purposes, a leak detection compound, 1,1 difluoroethane, was utilized at all system connections and seals prior to and during sampling.

Following recovery of the sample for on-site analysis, 1-liter summa canister confirmation samples were recovered at each location. One 1-liter sample canister (Summa) was securely attached to a sample manifold. A leak test was performed for approximately 10 minutes by bringing the sampling manifold up to vacuum and observing any loss in pressure. Each manifold consisted of a flow regulator set for 200 milliliters per minute (mL/min) and moisture filter that was used solely for one soil vapor probe. Upon attachment to the sample tubing, the soil gas sample was collected. Samples times varied per location due to differences in the lithology. The samples were shipped to Air Toxics Limited, a fixed-base laboratory in Folsom, California, and analyzed using EPA Method TO-15 for VOCs. Table 1 summarizes the Summa canister pressures prior to and after sampling, as well as upon arrival to the laboratory.

Results

The laboratory analytical reports prepared by TEG (on-site mobile laboratory) and Air Toxics Limited (fixed-based laboratory) are presented as Appendix A. A summary of soil gas analytical results are presented in Table 1, and are compared to the San Francisco Regional Water Quality Control Board's (SFRWQCB's) environmental screening levels for evaluation of potential indoor air impacts (SFRWQCB, 2007; Table E-2).

Volatile organic compounds were detected in all soil gas samples collected. Leak testing using 1,1-difluoroethane indicated that low-level leakage, though acceptable, occurred in five of the six samples collected. The concentrations and types of VOCs detected in samples where the leak detection compound was detected were consistent with those detected in the soil gas samples analyzed by the on-site mobile laboratory, suggesting that the analytical results remain valid.

Based on review of the laboratory results and previous environmental investigations, it appears that the soil gas at the Property, in the vicinity of the former dry cleaning machine and near the dumpster area, has been adversely impacted with VOCs. As discussed during our meeting with Mr. Jerry Wickham of ACHSA on August 7, 2008, we shall prepare a vapor extraction pilot test work plan for approval by ACHSA to remediate the contaminated soil gas at the site.

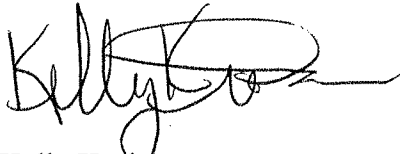
Mr. Robert Strong
224 Rickenbacker Circle
RESULTS OF ADDITIONAL SOIL GAS SAMPLING

7584.100.101
August 15, 2008
Page 3

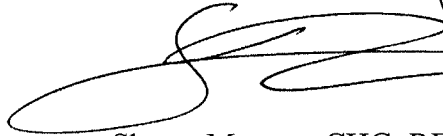
We look forward to continued service with you on this project. If you have any questions regarding these results, please do not hesitate to contact us.

Sincerely,

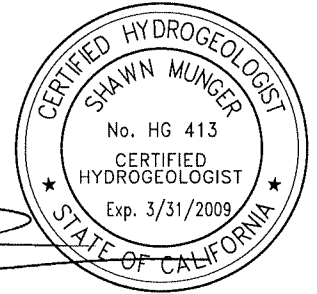
ENGEO Incorporated



Kelly Krohn

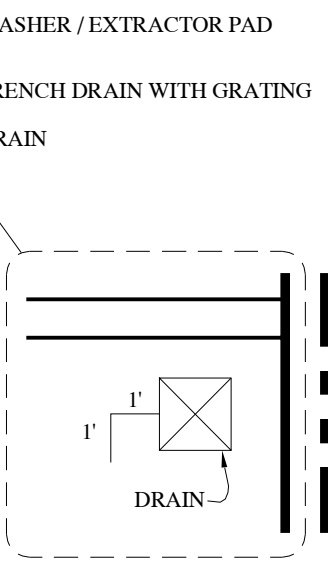
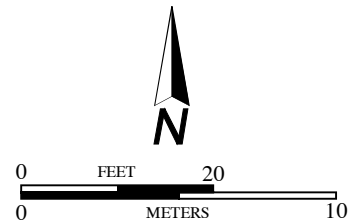
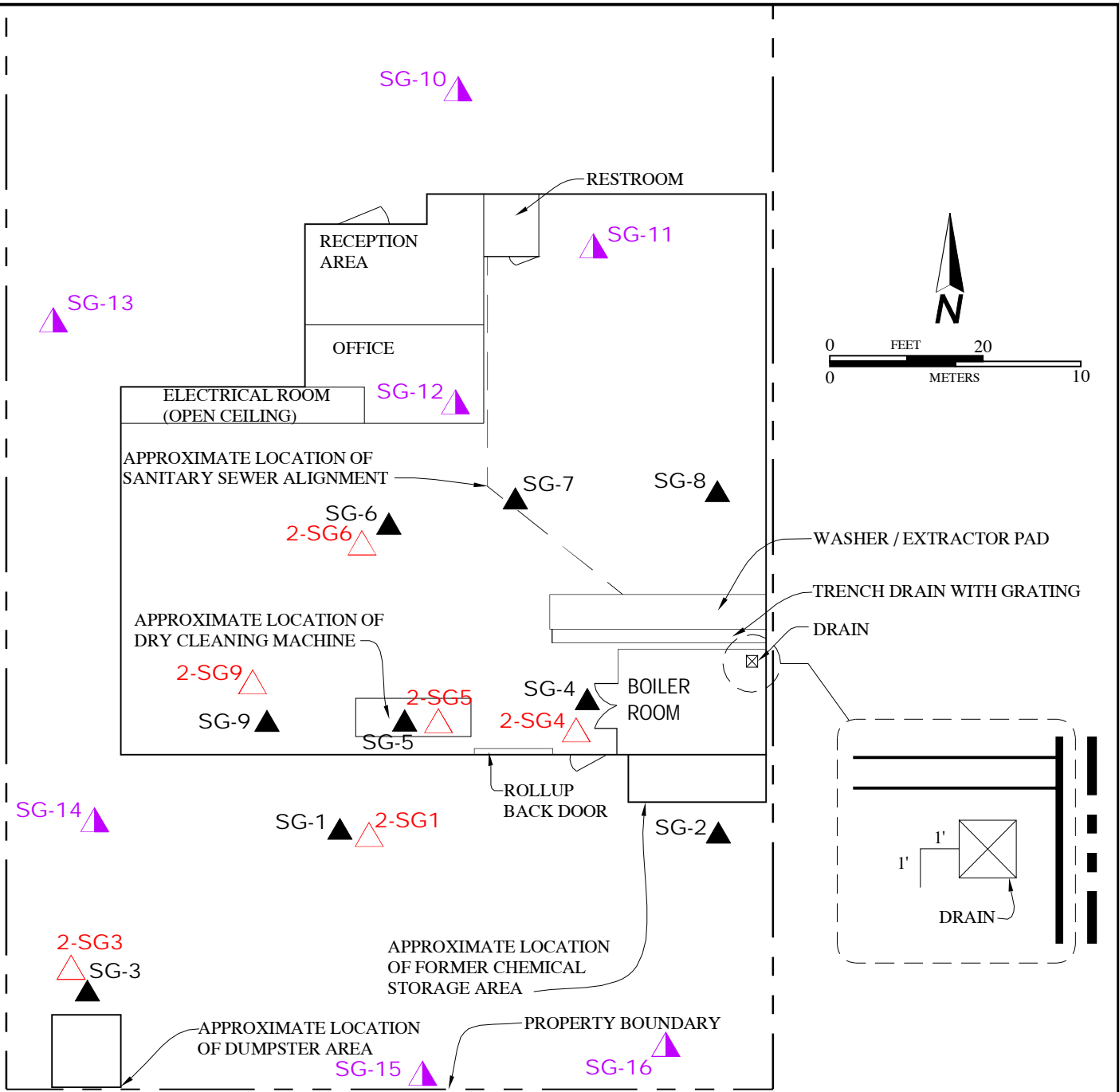


Shawn Munger, CHG, REAII



Attachments: Figure 1
Table 1 – Summary of Soil Gas Results
Appendix A - Laboratory Analytical Reports

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EXPLANATION

- 2-SG9 ▲ APPROXIMATE LOCATION OF SOIL GAS SAMPLE (MOBILE LABORATORY AND SUMMA CANISTER, JUNE 2007)
- SG-9 ▲ APPROXIMATE LOCATION OF SOIL GAS SAMPLE (MOBILE LABORATORY, JANUARY 2007)
- SG-16 ▲ APPROXIMATE LOCATION OF SOIL GAS SAMPLE (SUMMA CANISTER, DECEMBER 2007)

BASE MAP SOURCE: CITY OF LIVERMORE BUILDING DEPARTMENT



SITE PLAN
 224 RICKENBACKER CIRCLE
 LIVERMORE, CALIFORNIA

PROJECT NO.: 7584.100.101	
DATE: AUGUST 2008	
DRAWN BY: SRP	CHECKED BY: SPM

FIGURE NO.
1

Table 1. Summary of Soil Gas Results

TARGET ANALYTE	SFRWQCB	SG-1	SG-2	SG-3	SG-4	SG-5	SG-6	SG-7	SG-8	SG-9	SG-10	SG-11	SG-12	SG-12 (DUPLICATE)
	ESL	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft
	1/22/2007	1/22/2007	1/22/2007	1/22/2007	1/22/2007	1/22/2007	1/22/2007	1/22/2007	1/22/2007	1/22/2007	12/17/2007	12/17/2007	12/17/2007	12/17/2007
ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³
VOCs	TABLE E (C/I)													
1,1-DICHLOROETHENE	160	<100	<100	<100	<100	4700	<100	<100	<100	<100	<1.3	<1.3	<1.2	<1.2
1,1-DIFLUOROETHANE	--	<100	<100	<100	<100	<100	<100	<100	<100	<100	NR	NR	NR	NR
1,2,4-TRIMETHYLBENZENE	--	NR	NR	NR	NR	NR	NR	NR	NR	NR	<1.4	<1.4	<1.4	<1.3
1,3-BUTADIENE	--	NR	NR	NR	NR	NR	NR	NR	NR	NR	<0.97	<0.94	<0.93	<0.88
2-BUTANONE	2900000	NR	NR	NR	NR	NR	NR	NR	NR	NR	58	77	31	28
2-HEXANONE	--	NR	NR	NR	NR	NR	NR	NR	NR	NR	5.3	<1.4	<1.3	<1.3
4-ETHYL TOLUENE	--	NR	NR	NR	NR	NR	NR	NR	NR	NR	<1.2	<1.2	<1.2	<1.1
ACETONE	1800000	NR	NR	NR	NR	NR	NR	NR	NR	NR	100	180	70	62
BENZENE	280	<100	<100	<100	<100	<100	<100	<100	<100	<100	2.8	3.5	2.5	2.2
CIS-1,2-DICHLOROETHENE	20000	<100	<100	17000	450	780,000 (50)	<100	470	<100	1700	<0.90	<0.88	<0.86	<0.82
DICHLORODIFLUOROMETHANE	--	<100	<100	<100	<100	<100	<100	<100	<100	<100	<1.2	<1.2	<1.2	<1.1
ETHANOL	--	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
ETHYLBENZENE	580000	<100	<100	<100	<100	<100	<100	120	<100	<100	<0.51	<0.49	<0.48	<0.46
HEPTANE	--	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
HEXANE	--	NR	NR	NR	NR	NR	NR	NR	NR	NR	17	<2.8	<2.8	<2.7
TETRACHLOROETHENE	1400	16000	15000	38000	11000	860,000 (50)	25000	5700	4300	4100	<2.1	64	10	8.7
TOLUENE	180000	<200	320	220	210	<200	250	550	270	270	31	25	16	14
TRANS-1,2-DICHLOROETHENE	41000	<100	<100	<100	<100	140,000 (50)	<100	<100	<100	<100	<0.90	<0.88	<0.86	<0.82
TRICHLOROETHENE	4100	150	480	18000	1200	4,600,000 (50)	1300	3000	310	3100	<0.86	<0.83	<0.82	<0.78
VINYL CHLORIDE	100	<100	<100	<100	<100	1800	<100	<100	<100	<100	<0.40	<0.39	<0.39	<0.37
XYLENE(S)	58000	<100	120	<100	<100	<100	<100	450	100	130	48	49	31.4	26.3

Bold Numbers - Exceed ESL Concentrations
 -- - Screening level not provided
 NR - Constituent not reported by laboratory

Table 1. Summary of Soil Gas Results

SFRWQCB	SG-13	SG-14	SG-15	SG-16	2-SG1	2-SG1 (Dup)	2-SG3	2-SG4	2-SG5	2-SG6	2-SG9	2-SG1 (F)	2-SG3 (F)	2-SG4 (F)	2-SG4 (F) Duplicate	2-SG5 (F)	2-SG6 (F)	2-SG9 (F)	
ESL	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	
	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	
	12/17/2007	12/17/2007	12/17/2007	12/17/2007	6/18/2008	6/18/2008	6/18/2008	6/18/2008	6/18/2008	6/18/2008	6/18/2008	6/18/2008	6/18/2008	6/18/2008	6/18/2008	6/18/2008	6/18/2008	6/18/2008	
ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	
TARGET ANALYTE																			
VOCs	TABLE E (C/I)																		
1,1-DICHLOROETHENE	160	<0.79	<1.2	<1.2	<1.2	<100	<100	810	<100	33000	<100	300	<50	<280	<320	<480	<27000	99	<140
1,1-DIFLUOROETHANE	--	NR	NR	NR	NR	<100	<100	<100	<100	<100	<100	<100	<140	94000	97000	110000	<74000	340	50000
1,2,4-TRIMETHYLBENZENE	--	<0.89	2.5	<1.3	<1.3	NR	NR	NR	NR	NR	NR	NR	<62	<350	<400	<590	<34000	<92	<170
1,3-BUTADIENE	--	<0.60	<0.94	<0.88	<0.90	NR	NR	NR	NR	NR	NR	NR	<28	<160	<180	<270	<15000	170	<78
2-BUTANONE	2900000	42	<0.69	29	110	NR	NR	NR	NR	NR	NR	NR	78	<210	<240	<360	<20000	260	<100
2-HEXANONE	--	<0.86	1.7	<1.3	<1.3	NR	NR	NR	NR	NR	NR	NR	<210	<1200	<1300	<2000	<110000	<300	<580
4-ETHYL TOLUENE	--	<0.74	1.9	<1.1	<1.1	NR	NR	NR	NR	NR	NR	NR	<62	<350	<400	<590	<34000	<92	<170
ACETONE	1800000	110	<0.90	200	180	NR	NR	NR	NR	NR	NR	NR	560	<670	<760	<1100	<66000	580	<340
BENZENE	280	3.1	<1.4	4	6.6	130	160	<100	<100	<100	<100	<100	130	<220	<260	<390	<22000	130	<110
CIS-1,2-DICHLOROETHENE	20000	<0.55	<0.87	<0.81	7.9	<100	<100	36000	600	11,000,000 (80)	2800	21000	240	3200	<320	<480	6900000	6400	6600
DICHLORODIFLUOROMETHANE	--	<0.74	<1.2	<1.1	<1.1	<100	<100	660	<100	<100	<100	NR	NR	NR	NR	NR	NR	NR	NR
ETHANOL	--	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	110	<530	<610	<910	<52000	430	<270
ETHYLBENZENE	580000	<0.31	1.7	<0.46	8.2	<100	<100	<100	<100	<100	<100	<100	<55	<310	<350	<520	<30000	<81	<150
HEPTANE	--	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	59	<290	<330	<500	<28000	120	<140
HEXANE	--	27	<2.8	59	<2.7	NR	NR	NR	NR	NR	NR	NR	<44	<250	<280	<430	<24000	180	<120
TETRACHLOROETHENE	1400	<1.3	<2.0	<1.9	15	13000	16000	420000	11000	2,400,000 (80)	9400	9100	35000	15000	1300	1600	1100000	27000	2200
TOLUENE	180000	48	3.3	68	30	<200	<200	<200	<200	2900	<200	<200	75	<260	<300	<460	<26000	100	<130
TRANS-1,2-DICHLOROETHENE	41000	<0.55	<0.87	<0.81	8.2	<100	<100	5500	<100	1,600,000 (80)	480	13000	150	630	<320	<480	790000	1200	3900
TRICHLOROETHENE	4100	<0.53	<0.83	<0.77	22	150	110	130000	1500	3,100,000 (80)	3100	7200	2100	8400	<430	<650	1600000	8000	2000
VINYL CHLORIDE	100	<0.25	<0.39	<0.37	<0.32	<100	<100	<100	<100	16000	<100	220	<32	<180	<200	<310	<18000	<48	<90
XYLENE(S)	58000	43.2	8	50	59	<100	<100	<100	<100	<100	<100	<100	76	<310	<350	<520	<30000	<81	<150

Bold Numbers - Exceed ESL Concentrations
 -- - Screening level not provided
 NR - Constituent not reported by laboratory

APPENDIX A

Air Toxics Limited
TEG
Laboratory Analytical Reports



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**




AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0806367

Work Order Summary

CLIENT:	Ms. Kelly Krohn Engeo Inc. 2010 Crow Canyon Place Suite 250 San Ramon, CA 94583-1545	BILL TO:	Ms. Kelly Krohn Engeo Inc. 2010 Crow Canyon Place Suite 250 San Ramon, CA 94583-1545
PHONE:	925-866-9000	P.O. #	
FAX:	925-866-0199	PROJECT #	7584100101 Rickenbacker
DATE RECEIVED:	06/19/2008	CONTACT:	Kelly Buettner
DATE COMPLETED:	07/03/2008		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	2-SG1 (F)	Modified TO-15	6.0 "Hg	15 psi
02A	2-SG3 (F)	Modified TO-15	8.5 "Hg	15 psi
03A	2-SG4 (F)	Modified TO-15	5.0 "Hg	15 psi
03AA	2-SG4 (F) Lab Duplicate	Modified TO-15	5.0 "Hg	15 psi
04A	2-SG5 (F)	Modified TO-15	8.0 "Hg	15 psi
05A	2-SG6 (F)	Modified TO-15	17.0 "Hg	15 psi
06A	2-SG9 (F)	Modified TO-15	5.5 "Hg	15 psi
07A	Lab Blank	Modified TO-15	NA	NA
08A	CCV	Modified TO-15	NA	NA
09A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 07/03/08

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

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

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15
Engeo Inc.
Workorder# 0806367

Six 1 Liter Summa Canister samples were received on June 19, 2008. The laboratory performed analysis via modified EPA Method TO-15 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.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Daily CCV	+/- 30% Difference	<=/= 30% Difference with two allowed out up to <=/=40%.; flag and narrate outliers
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
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody (COC) was not relinquished properly. A signature and date were not provided by the field sampler.

Sample 2-SG6 (F) was received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: 2-SG1 (F)

Lab ID#: 0806367-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	51	59	95	110
Acetone	51	230	120	560
trans-1,2-Dichloroethene	13	38	50	150
2-Butanone (Methyl Ethyl Ketone)	13	26	37	78
cis-1,2-Dichloroethene	13	59	50	240
Benzene	13	41	40	130
Heptane	13	14	52	59
Trichloroethene	13	390	68	2100
Toluene	13	20	48	75
Tetrachloroethene	13	5200 E	86	35000 E
m,p-Xylene	13	17	55	76

Client Sample ID: 2-SG3 (F)

Lab ID#: 0806367-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
trans-1,2-Dichloroethene	70	160	280	630
cis-1,2-Dichloroethene	70	810	280	3200
Trichloroethene	70	1600	380	8400
Tetrachloroethene	70	2200	480	15000
1,1-Difluoroethane	280	35000 E	760	94000 E

Client Sample ID: 2-SG4 (F)

Lab ID#: 0806367-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	80	190	550	1300
1,1-Difluoroethane	320	36000 E	870	97000 E

Client Sample ID: 2-SG4 (F) Lab Duplicate

Lab ID#: 0806367-03AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	120	240	820	1600
1,1-Difluoroethane	480	42000	1300	110000



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: 2-SG5 (F)

Lab ID#: 0806367-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
trans-1,2-Dichloroethene	6900	200000	27000	790000
cis-1,2-Dichloroethene	6900	1700000	27000	6900000
Trichloroethene	6900	310000	37000	1600000
Tetrachloroethene	6900	160000	47000	1100000

Client Sample ID: 2-SG6 (F)

Lab ID#: 0806367-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,3-Butadiene	19	76	41	170
Ethanol	75	230	140	430
1,1-Dichloroethene	19	25	74	99
Acetone	75	240	180	580
trans-1,2-Dichloroethene	19	290	74	1200
Hexane	19	53	66	180
2-Butanone (Methyl Ethyl Ketone)	19	88	55	260
cis-1,2-Dichloroethene	19	1600	74	6400
Benzene	19	41	60	130
Heptane	19	28	76	120
Trichloroethene	19	1500	100	8000
Toluene	19	26	70	100
Tetrachloroethene	19	4000	130	27000
1,1-Difluoroethane	75	120	200	340

Client Sample ID: 2-SG9 (F)

Lab ID#: 0806367-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
trans-1,2-Dichloroethene	35	980	140	3900
cis-1,2-Dichloroethene	35	1700	140	6600
Trichloroethene	35	370	190	2000
Tetrachloroethene	35	320	240	2200
1,1-Difluoroethane	140	18000	380	50000



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2-SG1 (F)

Lab ID#: 0806367-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070219	Date of Collection:	6/18/08
Dil. Factor:	25.3	Date of Analysis:	7/2/08 11:47 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	13	Not Detected	62	Not Detected
Freon 114	13	Not Detected	88	Not Detected
Chloromethane	51	Not Detected	100	Not Detected
Vinyl Chloride	13	Not Detected	32	Not Detected
1,3-Butadiene	13	Not Detected	28	Not Detected
Bromomethane	13	Not Detected	49	Not Detected
Chloroethane	13	Not Detected	33	Not Detected
Freon 11	13	Not Detected	71	Not Detected
Ethanol	51	59	95	110
Freon 113	13	Not Detected	97	Not Detected
1,1-Dichloroethene	13	Not Detected	50	Not Detected
Acetone	51	230	120	560
2-Propanol	51	Not Detected	120	Not Detected
Carbon Disulfide	13	Not Detected	39	Not Detected
3-Chloropropene	51	Not Detected	160	Not Detected
Methylene Chloride	13	Not Detected	44	Not Detected
Methyl tert-butyl ether	13	Not Detected	46	Not Detected
trans-1,2-Dichloroethene	13	38	50	150
Hexane	13	Not Detected	44	Not Detected
1,1-Dichloroethane	13	Not Detected	51	Not Detected
2-Butanone (Methyl Ethyl Ketone)	13	26	37	78
cis-1,2-Dichloroethene	13	59	50	240
Tetrahydrofuran	13	Not Detected	37	Not Detected
Chloroform	13	Not Detected	62	Not Detected
1,1,1-Trichloroethane	13	Not Detected	69	Not Detected
Cyclohexane	13	Not Detected	44	Not Detected
Carbon Tetrachloride	13	Not Detected	80	Not Detected
2,2,4-Trimethylpentane	13	Not Detected	59	Not Detected
Benzene	13	41	40	130
1,2-Dichloroethane	13	Not Detected	51	Not Detected
Heptane	13	14	52	59
Trichloroethene	13	390	68	2100
1,2-Dichloropropane	13	Not Detected	58	Not Detected
1,4-Dioxane	51	Not Detected	180	Not Detected
Bromodichloromethane	13	Not Detected	85	Not Detected
cis-1,3-Dichloropropene	13	Not Detected	57	Not Detected
4-Methyl-2-pentanone	13	Not Detected	52	Not Detected
Toluene	13	20	48	75
trans-1,3-Dichloropropene	13	Not Detected	57	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2-SG1 (F)

Lab ID#: 0806367-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070219	Date of Collection:	6/18/08
Dil. Factor:	25.3	Date of Analysis:	7/2/08 11:47 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	13	Not Detected	69	Not Detected
Tetrachloroethene	13	5200 E	86	35000 E
2-Hexanone	51	Not Detected	210	Not Detected
Dibromochloromethane	13	Not Detected	110	Not Detected
1,2-Dibromoethane (EDB)	13	Not Detected	97	Not Detected
Chlorobenzene	13	Not Detected	58	Not Detected
Ethyl Benzene	13	Not Detected	55	Not Detected
m,p-Xylene	13	17	55	76
o-Xylene	13	Not Detected	55	Not Detected
Styrene	13	Not Detected	54	Not Detected
Bromoform	13	Not Detected	130	Not Detected
Cumene	13	Not Detected	62	Not Detected
1,1,2,2-Tetrachloroethane	13	Not Detected	87	Not Detected
Propylbenzene	13	Not Detected	62	Not Detected
4-Ethyltoluene	13	Not Detected	62	Not Detected
1,3,5-Trimethylbenzene	13	Not Detected	62	Not Detected
1,2,4-Trimethylbenzene	13	Not Detected	62	Not Detected
1,3-Dichlorobenzene	13	Not Detected	76	Not Detected
1,4-Dichlorobenzene	13	Not Detected	76	Not Detected
alpha-Chlorotoluene	13	Not Detected	65	Not Detected
1,2-Dichlorobenzene	13	Not Detected	76	Not Detected
1,2,4-Trichlorobenzene	51	Not Detected	380	Not Detected
Hexachlorobutadiene	51	Not Detected	540	Not Detected
1,1-Difluoroethane	51	Not Detected	140	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	91	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2-SG3 (F)

Lab ID#: 0806367-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070221	Date of Collection:	6/18/08
Dil. Factor:	141	Date of Analysis:	7/3/08 01:24 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	70	Not Detected	350	Not Detected
Freon 114	70	Not Detected	490	Not Detected
Chloromethane	280	Not Detected	580	Not Detected
Vinyl Chloride	70	Not Detected	180	Not Detected
1,3-Butadiene	70	Not Detected	160	Not Detected
Bromomethane	70	Not Detected	270	Not Detected
Chloroethane	70	Not Detected	190	Not Detected
Freon 11	70	Not Detected	400	Not Detected
Ethanol	280	Not Detected	530	Not Detected
Freon 113	70	Not Detected	540	Not Detected
1,1-Dichloroethene	70	Not Detected	280	Not Detected
Acetone	280	Not Detected	670	Not Detected
2-Propanol	280	Not Detected	690	Not Detected
Carbon Disulfide	70	Not Detected	220	Not Detected
3-Chloropropene	280	Not Detected	880	Not Detected
Methylene Chloride	70	Not Detected	240	Not Detected
Methyl tert-butyl ether	70	Not Detected	250	Not Detected
trans-1,2-Dichloroethene	70	160	280	630
Hexane	70	Not Detected	250	Not Detected
1,1-Dichloroethane	70	Not Detected	280	Not Detected
2-Butanone (Methyl Ethyl Ketone)	70	Not Detected	210	Not Detected
cis-1,2-Dichloroethene	70	810	280	3200
Tetrahydrofuran	70	Not Detected	210	Not Detected
Chloroform	70	Not Detected	340	Not Detected
1,1,1-Trichloroethane	70	Not Detected	380	Not Detected
Cyclohexane	70	Not Detected	240	Not Detected
Carbon Tetrachloride	70	Not Detected	440	Not Detected
2,2,4-Trimethylpentane	70	Not Detected	330	Not Detected
Benzene	70	Not Detected	220	Not Detected
1,2-Dichloroethane	70	Not Detected	280	Not Detected
Heptane	70	Not Detected	290	Not Detected
Trichloroethene	70	1600	380	8400
1,2-Dichloropropane	70	Not Detected	320	Not Detected
1,4-Dioxane	280	Not Detected	1000	Not Detected
Bromodichloromethane	70	Not Detected	470	Not Detected
cis-1,3-Dichloropropene	70	Not Detected	320	Not Detected
4-Methyl-2-pentanone	70	Not Detected	290	Not Detected
Toluene	70	Not Detected	260	Not Detected
trans-1,3-Dichloropropene	70	Not Detected	320	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2-SG3 (F)

Lab ID#: 0806367-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070221	Date of Collection:	6/18/08
Dil. Factor:	141	Date of Analysis:	7/3/08 01:24 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	70	Not Detected	380	Not Detected
Tetrachloroethene	70	2200	480	15000
2-Hexanone	280	Not Detected	1200	Not Detected
Dibromochloromethane	70	Not Detected	600	Not Detected
1,2-Dibromoethane (EDB)	70	Not Detected	540	Not Detected
Chlorobenzene	70	Not Detected	320	Not Detected
Ethyl Benzene	70	Not Detected	310	Not Detected
m,p-Xylene	70	Not Detected	310	Not Detected
o-Xylene	70	Not Detected	310	Not Detected
Styrene	70	Not Detected	300	Not Detected
Bromoform	70	Not Detected	730	Not Detected
Cumene	70	Not Detected	350	Not Detected
1,1,2,2-Tetrachloroethane	70	Not Detected	480	Not Detected
Propylbenzene	70	Not Detected	350	Not Detected
4-Ethyltoluene	70	Not Detected	350	Not Detected
1,3,5-Trimethylbenzene	70	Not Detected	350	Not Detected
1,2,4-Trimethylbenzene	70	Not Detected	350	Not Detected
1,3-Dichlorobenzene	70	Not Detected	420	Not Detected
1,4-Dichlorobenzene	70	Not Detected	420	Not Detected
alpha-Chlorotoluene	70	Not Detected	360	Not Detected
1,2-Dichlorobenzene	70	Not Detected	420	Not Detected
1,2,4-Trichlorobenzene	280	Not Detected	2100	Not Detected
Hexachlorobutadiene	280	Not Detected	3000	Not Detected
1,1-Difluoroethane	280	35000 E	760	94000 E

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	91	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2-SG4 (F)

Lab ID#: 0806367-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070224	Date of Collection:	6/18/08
Dil. Factor:	161	Date of Analysis:	7/3/08 04:06 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	80	Not Detected	400	Not Detected
Freon 114	80	Not Detected	560	Not Detected
Chloromethane	320	Not Detected	660	Not Detected
Vinyl Chloride	80	Not Detected	200	Not Detected
1,3-Butadiene	80	Not Detected	180	Not Detected
Bromomethane	80	Not Detected	310	Not Detected
Chloroethane	80	Not Detected	210	Not Detected
Freon 11	80	Not Detected	450	Not Detected
Ethanol	320	Not Detected	610	Not Detected
Freon 113	80	Not Detected	620	Not Detected
1,1-Dichloroethene	80	Not Detected	320	Not Detected
Acetone	320	Not Detected	760	Not Detected
2-Propanol	320	Not Detected	790	Not Detected
Carbon Disulfide	80	Not Detected	250	Not Detected
3-Chloropropene	320	Not Detected	1000	Not Detected
Methylene Chloride	80	Not Detected	280	Not Detected
Methyl tert-butyl ether	80	Not Detected	290	Not Detected
trans-1,2-Dichloroethene	80	Not Detected	320	Not Detected
Hexane	80	Not Detected	280	Not Detected
1,1-Dichloroethane	80	Not Detected	320	Not Detected
2-Butanone (Methyl Ethyl Ketone)	80	Not Detected	240	Not Detected
cis-1,2-Dichloroethene	80	Not Detected	320	Not Detected
Tetrahydrofuran	80	Not Detected	240	Not Detected
Chloroform	80	Not Detected	390	Not Detected
1,1,1-Trichloroethane	80	Not Detected	440	Not Detected
Cyclohexane	80	Not Detected	280	Not Detected
Carbon Tetrachloride	80	Not Detected	510	Not Detected
2,2,4-Trimethylpentane	80	Not Detected	380	Not Detected
Benzene	80	Not Detected	260	Not Detected
1,2-Dichloroethane	80	Not Detected	320	Not Detected
Heptane	80	Not Detected	330	Not Detected
Trichloroethene	80	Not Detected	430	Not Detected
1,2-Dichloropropane	80	Not Detected	370	Not Detected
1,4-Dioxane	320	Not Detected	1200	Not Detected
Bromodichloromethane	80	Not Detected	540	Not Detected
cis-1,3-Dichloropropene	80	Not Detected	360	Not Detected
4-Methyl-2-pentanone	80	Not Detected	330	Not Detected
Toluene	80	Not Detected	300	Not Detected
trans-1,3-Dichloropropene	80	Not Detected	360	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2-SG4 (F)

Lab ID#: 0806367-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070224	Date of Collection:	6/18/08
Dil. Factor:	161	Date of Analysis:	7/3/08 04:06 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	80	Not Detected	440	Not Detected
Tetrachloroethene	80	190	550	1300
2-Hexanone	320	Not Detected	1300	Not Detected
Dibromochloromethane	80	Not Detected	680	Not Detected
1,2-Dibromoethane (EDB)	80	Not Detected	620	Not Detected
Chlorobenzene	80	Not Detected	370	Not Detected
Ethyl Benzene	80	Not Detected	350	Not Detected
m,p-Xylene	80	Not Detected	350	Not Detected
o-Xylene	80	Not Detected	350	Not Detected
Styrene	80	Not Detected	340	Not Detected
Bromoform	80	Not Detected	830	Not Detected
Cumene	80	Not Detected	400	Not Detected
1,1,2,2-Tetrachloroethane	80	Not Detected	550	Not Detected
Propylbenzene	80	Not Detected	400	Not Detected
4-Ethyltoluene	80	Not Detected	400	Not Detected
1,3,5-Trimethylbenzene	80	Not Detected	400	Not Detected
1,2,4-Trimethylbenzene	80	Not Detected	400	Not Detected
1,3-Dichlorobenzene	80	Not Detected	480	Not Detected
1,4-Dichlorobenzene	80	Not Detected	480	Not Detected
alpha-Chlorotoluene	80	Not Detected	420	Not Detected
1,2-Dichlorobenzene	80	Not Detected	480	Not Detected
1,2,4-Trichlorobenzene	320	Not Detected	2400	Not Detected
Hexachlorobutadiene	320	Not Detected	3400	Not Detected
1,1-Difluoroethane	320	36000 E	870	97000 E

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	94	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2-SG4 (F) Lab Duplicate

Lab ID#: 0806367-03AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070222	Date of Collection:	6/18/08
Dil. Factor:	242	Date of Analysis:	7/3/08 02:56 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	120	Not Detected	600	Not Detected
Freon 114	120	Not Detected	840	Not Detected
Chloromethane	480	Not Detected	1000	Not Detected
Vinyl Chloride	120	Not Detected	310	Not Detected
1,3-Butadiene	120	Not Detected	270	Not Detected
Bromomethane	120	Not Detected	470	Not Detected
Chloroethane	120	Not Detected	320	Not Detected
Freon 11	120	Not Detected	680	Not Detected
Ethanol	480	Not Detected	910	Not Detected
Freon 113	120	Not Detected	930	Not Detected
1,1-Dichloroethene	120	Not Detected	480	Not Detected
Acetone	480	Not Detected	1100	Not Detected
2-Propanol	480	Not Detected	1200	Not Detected
Carbon Disulfide	120	Not Detected	380	Not Detected
3-Chloropropene	480	Not Detected	1500	Not Detected
Methylene Chloride	120	Not Detected	420	Not Detected
Methyl tert-butyl ether	120	Not Detected	440	Not Detected
trans-1,2-Dichloroethene	120	Not Detected	480	Not Detected
Hexane	120	Not Detected	430	Not Detected
1,1-Dichloroethane	120	Not Detected	490	Not Detected
2-Butanone (Methyl Ethyl Ketone)	120	Not Detected	360	Not Detected
cis-1,2-Dichloroethene	120	Not Detected	480	Not Detected
Tetrahydrofuran	120	Not Detected	360	Not Detected
Chloroform	120	Not Detected	590	Not Detected
1,1,1-Trichloroethane	120	Not Detected	660	Not Detected
Cyclohexane	120	Not Detected	420	Not Detected
Carbon Tetrachloride	120	Not Detected	760	Not Detected
2,2,4-Trimethylpentane	120	Not Detected	560	Not Detected
Benzene	120	Not Detected	390	Not Detected
1,2-Dichloroethane	120	Not Detected	490	Not Detected
Heptane	120	Not Detected	500	Not Detected
Trichloroethene	120	Not Detected	650	Not Detected
1,2-Dichloropropane	120	Not Detected	560	Not Detected
1,4-Dioxane	480	Not Detected	1700	Not Detected
Bromodichloromethane	120	Not Detected	810	Not Detected
cis-1,3-Dichloropropene	120	Not Detected	550	Not Detected
4-Methyl-2-pentanone	120	Not Detected	500	Not Detected
Toluene	120	Not Detected	460	Not Detected
trans-1,3-Dichloropropene	120	Not Detected	550	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2-SG4 (F) Lab Duplicate

Lab ID#: 0806367-03AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070222	Date of Collection:	6/18/08
Dil. Factor:	242	Date of Analysis:	7/3/08 02:56 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	120	Not Detected	660	Not Detected
Tetrachloroethene	120	240	820	1600
2-Hexanone	480	Not Detected	2000	Not Detected
Dibromochloromethane	120	Not Detected	1000	Not Detected
1,2-Dibromoethane (EDB)	120	Not Detected	930	Not Detected
Chlorobenzene	120	Not Detected	560	Not Detected
Ethyl Benzene	120	Not Detected	520	Not Detected
m,p-Xylene	120	Not Detected	520	Not Detected
o-Xylene	120	Not Detected	520	Not Detected
Styrene	120	Not Detected	520	Not Detected
Bromoform	120	Not Detected	1200	Not Detected
Cumene	120	Not Detected	590	Not Detected
1,1,2,2-Tetrachloroethane	120	Not Detected	830	Not Detected
Propylbenzene	120	Not Detected	590	Not Detected
4-Ethyltoluene	120	Not Detected	590	Not Detected
1,3,5-Trimethylbenzene	120	Not Detected	590	Not Detected
1,2,4-Trimethylbenzene	120	Not Detected	590	Not Detected
1,3-Dichlorobenzene	120	Not Detected	730	Not Detected
1,4-Dichlorobenzene	120	Not Detected	730	Not Detected
alpha-Chlorotoluene	120	Not Detected	630	Not Detected
1,2-Dichlorobenzene	120	Not Detected	730	Not Detected
1,2,4-Trichlorobenzene	480	Not Detected	3600	Not Detected
Hexachlorobutadiene	480	Not Detected	5200	Not Detected
1,1-Difluoroethane	480	42000	1300	110000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	90	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2-SG5 (F)

Lab ID#: 0806367-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070225	Date of Collection:	6/18/08
Dil. Factor:	13800	Date of Analysis:	7/3/08 04:33 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	6900	Not Detected	34000	Not Detected
Freon 114	6900	Not Detected	48000	Not Detected
Chloromethane	28000	Not Detected	57000	Not Detected
Vinyl Chloride	6900	Not Detected	18000	Not Detected
1,3-Butadiene	6900	Not Detected	15000	Not Detected
Bromomethane	6900	Not Detected	27000	Not Detected
Chloroethane	6900	Not Detected	18000	Not Detected
Freon 11	6900	Not Detected	39000	Not Detected
Ethanol	28000	Not Detected	52000	Not Detected
Freon 113	6900	Not Detected	53000	Not Detected
1,1-Dichloroethene	6900	Not Detected	27000	Not Detected
Acetone	28000	Not Detected	66000	Not Detected
2-Propanol	28000	Not Detected	68000	Not Detected
Carbon Disulfide	6900	Not Detected	21000	Not Detected
3-Chloropropene	28000	Not Detected	86000	Not Detected
Methylene Chloride	6900	Not Detected	24000	Not Detected
Methyl tert-butyl ether	6900	Not Detected	25000	Not Detected
trans-1,2-Dichloroethene	6900	200000	27000	790000
Hexane	6900	Not Detected	24000	Not Detected
1,1-Dichloroethane	6900	Not Detected	28000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6900	Not Detected	20000	Not Detected
cis-1,2-Dichloroethene	6900	1700000	27000	6900000
Tetrahydrofuran	6900	Not Detected	20000	Not Detected
Chloroform	6900	Not Detected	34000	Not Detected
1,1,1-Trichloroethane	6900	Not Detected	38000	Not Detected
Cyclohexane	6900	Not Detected	24000	Not Detected
Carbon Tetrachloride	6900	Not Detected	43000	Not Detected
2,2,4-Trimethylpentane	6900	Not Detected	32000	Not Detected
Benzene	6900	Not Detected	22000	Not Detected
1,2-Dichloroethane	6900	Not Detected	28000	Not Detected
Heptane	6900	Not Detected	28000	Not Detected
Trichloroethene	6900	310000	37000	1600000
1,2-Dichloropropane	6900	Not Detected	32000	Not Detected
1,4-Dioxane	28000	Not Detected	99000	Not Detected
Bromodichloromethane	6900	Not Detected	46000	Not Detected
cis-1,3-Dichloropropene	6900	Not Detected	31000	Not Detected
4-Methyl-2-pentanone	6900	Not Detected	28000	Not Detected
Toluene	6900	Not Detected	26000	Not Detected
trans-1,3-Dichloropropene	6900	Not Detected	31000	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2-SG5 (F)

Lab ID#: 0806367-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070225	Date of Collection:	6/18/08
Dil. Factor:	13800	Date of Analysis:	7/3/08 04:33 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	6900	Not Detected	38000	Not Detected
Tetrachloroethene	6900	160000	47000	1100000
2-Hexanone	28000	Not Detected	110000	Not Detected
Dibromochloromethane	6900	Not Detected	59000	Not Detected
1,2-Dibromoethane (EDB)	6900	Not Detected	53000	Not Detected
Chlorobenzene	6900	Not Detected	32000	Not Detected
Ethyl Benzene	6900	Not Detected	30000	Not Detected
m,p-Xylene	6900	Not Detected	30000	Not Detected
o-Xylene	6900	Not Detected	30000	Not Detected
Styrene	6900	Not Detected	29000	Not Detected
Bromoform	6900	Not Detected	71000	Not Detected
Cumene	6900	Not Detected	34000	Not Detected
1,1,2,2-Tetrachloroethane	6900	Not Detected	47000	Not Detected
Propylbenzene	6900	Not Detected	34000	Not Detected
4-Ethyltoluene	6900	Not Detected	34000	Not Detected
1,3,5-Trimethylbenzene	6900	Not Detected	34000	Not Detected
1,2,4-Trimethylbenzene	6900	Not Detected	34000	Not Detected
1,3-Dichlorobenzene	6900	Not Detected	41000	Not Detected
1,4-Dichlorobenzene	6900	Not Detected	41000	Not Detected
alpha-Chlorotoluene	6900	Not Detected	36000	Not Detected
1,2-Dichlorobenzene	6900	Not Detected	41000	Not Detected
1,2,4-Trichlorobenzene	28000	Not Detected	200000	Not Detected
Hexachlorobutadiene	28000	Not Detected	290000	Not Detected
1,1-Difluoroethane	28000	Not Detected	74000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	102	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2-SG6 (F)

Lab ID#: 0806367-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070215	Date of Collection:	6/18/08
Dil. Factor:	37.3	Date of Analysis:	7/2/08 08:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	19	Not Detected	92	Not Detected
Freon 114	19	Not Detected	130	Not Detected
Chloromethane	75	Not Detected	150	Not Detected
Vinyl Chloride	19	Not Detected	48	Not Detected
1,3-Butadiene	19	76	41	170
Bromomethane	19	Not Detected	72	Not Detected
Chloroethane	19	Not Detected	49	Not Detected
Freon 11	19	Not Detected	100	Not Detected
Ethanol	75	230	140	430
Freon 113	19	Not Detected	140	Not Detected
1,1-Dichloroethene	19	25	74	99
Acetone	75	240	180	580
2-Propanol	75	Not Detected	180	Not Detected
Carbon Disulfide	19	Not Detected	58	Not Detected
3-Chloropropene	75	Not Detected	230	Not Detected
Methylene Chloride	19	Not Detected	65	Not Detected
Methyl tert-butyl ether	19	Not Detected	67	Not Detected
trans-1,2-Dichloroethene	19	290	74	1200
Hexane	19	53	66	180
1,1-Dichloroethane	19	Not Detected	75	Not Detected
2-Butanone (Methyl Ethyl Ketone)	19	88	55	260
cis-1,2-Dichloroethene	19	1600	74	6400
Tetrahydrofuran	19	Not Detected	55	Not Detected
Chloroform	19	Not Detected	91	Not Detected
1,1,1-Trichloroethane	19	Not Detected	100	Not Detected
Cyclohexane	19	Not Detected	64	Not Detected
Carbon Tetrachloride	19	Not Detected	120	Not Detected
2,2,4-Trimethylpentane	19	Not Detected	87	Not Detected
Benzene	19	41	60	130
1,2-Dichloroethane	19	Not Detected	75	Not Detected
Heptane	19	28	76	120
Trichloroethene	19	1500	100	8000
1,2-Dichloropropane	19	Not Detected	86	Not Detected
1,4-Dioxane	75	Not Detected	270	Not Detected
Bromodichloromethane	19	Not Detected	120	Not Detected
cis-1,3-Dichloropropene	19	Not Detected	85	Not Detected
4-Methyl-2-pentanone	19	Not Detected	76	Not Detected
Toluene	19	26	70	100
trans-1,3-Dichloropropene	19	Not Detected	85	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2-SG6 (F)

Lab ID#: 0806367-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070215	Date of Collection:	6/18/08
Dil. Factor:	37.3	Date of Analysis:	7/2/08 08:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	19	Not Detected	100	Not Detected
Tetrachloroethene	19	4000	130	27000
2-Hexanone	75	Not Detected	300	Not Detected
Dibromochloromethane	19	Not Detected	160	Not Detected
1,2-Dibromoethane (EDB)	19	Not Detected	140	Not Detected
Chlorobenzene	19	Not Detected	86	Not Detected
Ethyl Benzene	19	Not Detected	81	Not Detected
m,p-Xylene	19	Not Detected	81	Not Detected
o-Xylene	19	Not Detected	81	Not Detected
Styrene	19	Not Detected	79	Not Detected
Bromoform	19	Not Detected	190	Not Detected
Cumene	19	Not Detected	92	Not Detected
1,1,2,2-Tetrachloroethane	19	Not Detected	130	Not Detected
Propylbenzene	19	Not Detected	92	Not Detected
4-Ethyltoluene	19	Not Detected	92	Not Detected
1,3,5-Trimethylbenzene	19	Not Detected	92	Not Detected
1,2,4-Trimethylbenzene	19	Not Detected	92	Not Detected
1,3-Dichlorobenzene	19	Not Detected	110	Not Detected
1,4-Dichlorobenzene	19	Not Detected	110	Not Detected
alpha-Chlorotoluene	19	Not Detected	96	Not Detected
1,2-Dichlorobenzene	19	Not Detected	110	Not Detected
1,2,4-Trichlorobenzene	75	Not Detected	550	Not Detected
Hexachlorobutadiene	75	Not Detected	800	Not Detected
1,1-Difluoroethane	75	120	200	340

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	90	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2-SG9 (F)

Lab ID#: 0806367-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070220	Date of Collection:	6/18/08
Dil. Factor:	70.6	Date of Analysis:	7/3/08 12:29 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	35	Not Detected	170	Not Detected
Freon 114	35	Not Detected	250	Not Detected
Chloromethane	140	Not Detected	290	Not Detected
Vinyl Chloride	35	Not Detected	90	Not Detected
1,3-Butadiene	35	Not Detected	78	Not Detected
Bromomethane	35	Not Detected	140	Not Detected
Chloroethane	35	Not Detected	93	Not Detected
Freon 11	35	Not Detected	200	Not Detected
Ethanol	140	Not Detected	270	Not Detected
Freon 113	35	Not Detected	270	Not Detected
1,1-Dichloroethene	35	Not Detected	140	Not Detected
Acetone	140	Not Detected	340	Not Detected
2-Propanol	140	Not Detected	350	Not Detected
Carbon Disulfide	35	Not Detected	110	Not Detected
3-Chloropropene	140	Not Detected	440	Not Detected
Methylene Chloride	35	Not Detected	120	Not Detected
Methyl tert-butyl ether	35	Not Detected	130	Not Detected
trans-1,2-Dichloroethene	35	980	140	3900
Hexane	35	Not Detected	120	Not Detected
1,1-Dichloroethane	35	Not Detected	140	Not Detected
2-Butanone (Methyl Ethyl Ketone)	35	Not Detected	100	Not Detected
cis-1,2-Dichloroethene	35	1700	140	6600
Tetrahydrofuran	35	Not Detected	100	Not Detected
Chloroform	35	Not Detected	170	Not Detected
1,1,1-Trichloroethane	35	Not Detected	190	Not Detected
Cyclohexane	35	Not Detected	120	Not Detected
Carbon Tetrachloride	35	Not Detected	220	Not Detected
2,2,4-Trimethylpentane	35	Not Detected	160	Not Detected
Benzene	35	Not Detected	110	Not Detected
1,2-Dichloroethane	35	Not Detected	140	Not Detected
Heptane	35	Not Detected	140	Not Detected
Trichloroethene	35	370	190	2000
1,2-Dichloropropane	35	Not Detected	160	Not Detected
1,4-Dioxane	140	Not Detected	510	Not Detected
Bromodichloromethane	35	Not Detected	240	Not Detected
cis-1,3-Dichloropropene	35	Not Detected	160	Not Detected
4-Methyl-2-pentanone	35	Not Detected	140	Not Detected
Toluene	35	Not Detected	130	Not Detected
trans-1,3-Dichloropropene	35	Not Detected	160	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2-SG9 (F)

Lab ID#: 0806367-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070220	Date of Collection: 6/18/08
Dil. Factor:	70.6	Date of Analysis: 7/3/08 12:29 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	35	Not Detected	190	Not Detected
Tetrachloroethene	35	320	240	2200
2-Hexanone	140	Not Detected	580	Not Detected
Dibromochloromethane	35	Not Detected	300	Not Detected
1,2-Dibromoethane (EDB)	35	Not Detected	270	Not Detected
Chlorobenzene	35	Not Detected	160	Not Detected
Ethyl Benzene	35	Not Detected	150	Not Detected
m,p-Xylene	35	Not Detected	150	Not Detected
o-Xylene	35	Not Detected	150	Not Detected
Styrene	35	Not Detected	150	Not Detected
Bromoform	35	Not Detected	360	Not Detected
Cumene	35	Not Detected	170	Not Detected
1,1,2,2-Tetrachloroethane	35	Not Detected	240	Not Detected
Propylbenzene	35	Not Detected	170	Not Detected
4-Ethyltoluene	35	Not Detected	170	Not Detected
1,3,5-Trimethylbenzene	35	Not Detected	170	Not Detected
1,2,4-Trimethylbenzene	35	Not Detected	170	Not Detected
1,3-Dichlorobenzene	35	Not Detected	210	Not Detected
1,4-Dichlorobenzene	35	Not Detected	210	Not Detected
alpha-Chlorotoluene	35	Not Detected	180	Not Detected
1,2-Dichlorobenzene	35	Not Detected	210	Not Detected
1,2,4-Trichlorobenzene	140	Not Detected	1000	Not Detected
Hexachlorobutadiene	140	Not Detected	1500	Not Detected
1,1-Difluoroethane	140	18000	380	50000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	94	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0806367-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/2/08 11:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0806367-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/2/08 11:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	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
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	92	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0806367-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/2/08 09:57 AM

Compound	%Recovery
Freon 12	93
Freon 114	87
Chloromethane	95
Vinyl Chloride	92
1,3-Butadiene	85
Bromomethane	91
Chloroethane	102
Freon 11	89
Ethanol	97
Freon 113	92
1,1-Dichloroethene	91
Acetone	95
2-Propanol	96
Carbon Disulfide	90
3-Chloropropene	96
Methylene Chloride	92
Methyl tert-butyl ether	95
trans-1,2-Dichloroethene	90
Hexane	98
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	91
Tetrahydrofuran	92
Chloroform	87
1,1,1-Trichloroethane	94
Cyclohexane	94
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	95
Benzene	87
1,2-Dichloroethane	90
Heptane	83
Trichloroethene	89
1,2-Dichloropropane	90
1,4-Dioxane	94
Bromodichloromethane	90
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	98
Toluene	90
trans-1,3-Dichloropropene	94



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0806367-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/2/08 09:57 AM

Compound	%Recovery
1,1,2-Trichloroethane	95
Tetrachloroethene	89
2-Hexanone	102
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	94
Chlorobenzene	92
Ethyl Benzene	96
m,p-Xylene	101
o-Xylene	102
Styrene	102
Bromoform	100
Cumene	97
1,1,2,2-Tetrachloroethane	100
Propylbenzene	105
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	93
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	95
1,1-Difluoroethane	77

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	103	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0806367-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/2/08 10:25 AM

Compound	%Recovery
Freon 12	90
Freon 114	85
Chloromethane	94
Vinyl Chloride	87
1,3-Butadiene	81
Bromomethane	86
Chloroethane	100
Freon 11	87
Ethanol	97
Freon 113	98
1,1-Dichloroethene	101
Acetone	102
2-Propanol	98
Carbon Disulfide	88
3-Chloropropene	100
Methylene Chloride	97
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	88
Hexane	98
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	93
Tetrahydrofuran	91
Chloroform	89
1,1,1-Trichloroethane	93
Cyclohexane	94
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	94
Benzene	89
1,2-Dichloroethane	92
Heptane	86
Trichloroethene	91
1,2-Dichloropropane	91
1,4-Dioxane	98
Bromodichloromethane	94
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	102
Toluene	96
trans-1,3-Dichloropropene	96



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0806367-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8070204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/2/08 10:25 AM

Compound	%Recovery
1,1,2-Trichloroethane	94
Tetrachloroethene	90
2-Hexanone	102
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	91
Chlorobenzene	92
Ethyl Benzene	93
m,p-Xylene	94
o-Xylene	100
Styrene	98
Bromoform	100
Cumene	98
1,1,2,2-Tetrachloroethane	100
Propylbenzene	106
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	92
alpha-Chlorotoluene	96
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	81
Hexachlorobutadiene	91
1,1-Difluoroethane	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	108	70-130



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CHAIN-OF-CUSTODY RECORD

Project Manager Kelly Krohn
 Collected by: (Print and Sign) Kelly Krohn
 Company ENG80 Email kkrohn@eng80.com
 Address 7010 Crow Canyon City San Ramon State CA Zip 94583
 Phone (925) 866-4000 Fax (888) 279-2698

Project Info: P.O. # _____ Project # <u>7584100101</u> Project Name <u>Rickenbacker</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Lab Use Only Pressurized by: _____ Date: _____ Pressurization Gas: N ₂ He
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Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
01A	Z-S61 (F)	2192	6/18/08	15:27	TD-15	30	6		
02A	Z-S63 (F)	3912		12:47	TD-15	30	6		
03A	Z-S64 (F)	31781		13:23	TD-15	30	6		
04A	Z-S65 (F)	33642		14:01	TD-15	30	6		
05A	Z-S66 (F)	1445		14:58	TD-15	30	190		
06A	Z-S69 (F)	3392		14:32	TD-15	30	6		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>6/18/08 17:33</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>6/18/08 17:33</u>
Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>6/18/08 18:36</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>06/18/08 18:36</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) <u>[Signature]</u> Date/Time <u>06-19-08 0905</u>

Notes:
Leak check - 1,1 Difluoroethane

Lab Use Only	Shipper Name: <u>Fedex</u>	Air Bill #	Temp (°C): <u>10</u>	Condition: <u>Good</u>	Custody Seals Intact? Yes No <u>None</u>	Work Order #: <u>0806367</u>
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3 July 2008

Ms. Kelly Krohn
ENGEO Incorporated
2010 Crow Canyon Place, Suite 250
San Ramon, CA 94583-4634

SUBJECT: DATA REPORT - ENGEO Incorporated Project #7584100101
224 Rickenbacker Circle, Livermore, California

TEG Project # 80618D

Ms. Krohn:

Please find enclosed a data report for the samples analyzed from the above referenced project for ENGEO Incorporated. The samples were analyzed on site in TEG's mobile laboratory. TEG conducted a total of 9 analyses on 9 soil vapor samples.

-- 9 analyses on soil vapors for volatile organic hydrocarbons by EPA method 8260B.

The results of the analyses are summarized in the enclosed tables. Applicable detection limits and calibration data are included in the tables.

1,1 difluoroethane was used as a leak check compound around the probe rods during the soil vapor sampling. No 1,1 difluoroethane was detected in any of the vapor samples reported at or above the DTSC recommended leak check compound reporting limit of 10 µg/L of vapor.

TEG appreciates the opportunity to have provided analytical services to ENGEO Incorporated on this project. If you have any further questions relating to these data or report, please do not hesitate to contact us.

Sincerely,

Mark Jerpbak
Director, TEG-Northern California



ENGEO Incorporated Project # 7584100101
224 Rickenbacker Circle, Livermore, California

TEG Project #80618D

EPA Method 8260B VOC Analyses of SOIL VAPOR in ug/L of Vapor

SAMPLE NUMBER:		Probe	2-SG1	2-SG1	2-SG3	2-SG3
		Blank		dup		
SAMPLE DEPTH (feet):			4.0	4.0	5.0	5.0
PURGE VOLUME:			7	7	1	3
COLLECTION DATE:		6/18/08	6/18/08	6/18/08	6/18/08	6/18/08
COLLECTION TIME:		09:35	14:36	14:36	10:38	11:41
DILUTION FACTOR (VOCs):		1	1	1	5	5
	RL					
Dichlorodifluoromethane	0.10	nd	nd	nd	0.52	0.52
Vinyl Chloride	0.10	nd	nd	nd	nd	nd
Chloroethane	0.10	nd	nd	nd	nd	nd
Trichlorofluoromethane	0.10	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.10	nd	nd	nd	0.66	0.62
Methylene Chloride	0.10	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.10	nd	nd	nd	4.6	4.3
1,1-Dichloroethane	0.10	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.10	nd	nd	nd	29	27
Chloroform	0.10	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	0.10	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.10	nd	nd	nd	nd	nd
1,2-Dichloroethane	0.10	nd	nd	nd	nd	nd
Benzene	0.10	nd	0.13	0.16	nd	nd
Trichloroethene	0.10	nd	nd	0.11	100	97
Toluene	0.20	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.10	nd	nd	nd	nd	nd
Tetrachloroethene	0.10	nd	13	16	360	350
Ethylbenzene	0.10	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.10	nd	nd	nd	nd	nd
m,p-Xylene	0.20	nd	nd	nd	nd	nd
o-Xylene	0.10	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.10	nd	nd	nd	nd	nd
1,1 Difluoroethane (leak check)	10	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		107%	106%	106%	106%	105%
Surrogate Recovery (Toluene-d8)		108%	107%	107%	107%	107%
Surrogate Recovery (1,4-BFB)		108%	102%	102%	102%	103%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. Leif Jonsson



ENGEO Incorporated Project # 7584100101
224 Rickenbacker Circle, Livermore, California

TEG Project #80618D

EPA Method 8260B VOC Analyses of SOIL VAPOR in ug/L of Vapor

SAMPLE NUMBER:		2-SG3	2-SG4	2-SG5	2-SG6	2-SG9
SAMPLE DEPTH (feet):		5.0	4.0	2.0	2.0	3.5
PURGE VOLUME:		7	7	7	7	7
COLLECTION DATE:		6/18/08	6/18/08	6/18/08	6/18/08	6/18/08
COLLECTION TIME:		11:20	12:18	12:42	14:13	13:49
DILUTION FACTOR (VOCs):		5	5	10	1	1
	RL					
Dichlorodifluoromethane	0.10	0.66	nd	nd	nd	nd
Vinyl Chloride	0.10	nd	nd	16	nd	0.22
Chloroethane	0.10	nd	nd	nd	nd	nd
Trichlorofluoromethane	0.10	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.10	0.81	nd	33	nd	0.30
Methylene Chloride	0.10	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.10	5.5	nd	1600 (80)	0.48	13
1,1-Dichloroethane	0.10	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.10	36	0.60	11000 (80)	2.8	21
Chloroform	0.10	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	0.10	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.10	nd	nd	nd	nd	nd
1,2-Dichloroethane	0.10	nd	nd	nd	nd	nd
Benzene	0.10	nd	nd	nd	nd	nd
Trichloroethene	0.10	130	1.5	3100 (80)	3.1	7.2
Toluene	0.20	nd	nd	2.9	nd	nd
1,1,2-Trichloroethane	0.10	nd	nd	nd	nd	nd
Tetrachloroethene	0.10	420	11	2400 (80)	9.4	9.1
Ethylbenzene	0.10	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.10	nd	nd	nd	nd	nd
m,p-Xylene	0.20	nd	nd	nd	nd	nd
o-Xylene	0.10	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.10	nd	nd	nd	nd	nd
1,1 Difluoroethane (leak check)	10	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		106%	105%	106%	107%	105%
Surrogate Recovery (Toluene-d8)		107%	106%	106%	106%	108%
Surrogate Recovery (1,4-BFB)		102%	105%	104%	103%	103%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits
(80) = Dilution factor for this compound

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. Leif Jonsson



TEG Project #80618D

CALIBRATION STANDARDS - Initial Calibration / LCS

Instrument: Agilent 5973N MSD

COMPOUND	INITIAL CALIBRATION		LCS	
	RF	%RSD	RF	%DIFF
Dichlorodifluoromethane*	0.292	10.1%	0.259	11.3%
Vinyl Chloride*	0.314	4.5%	0.296	5.7%
Chloroethane*	0.168	6.2%	0.173	3.0%
Trichlorofluoromethane	0.362	7.6%	0.354	2.2%
1,1-Dichloroethene	0.228	8.5%	0.230	0.9%
1,1,2-Trichloro-trifluoroethane*	0.244	16.6%	0.238	2.5%
Methylene Chloride	0.232	5.3%	0.236	1.7%
trans-1,2-Dichloroethene	0.252	7.4%	0.254	0.8%
1,1-Dichloroethane	0.373	3.4%	0.385	3.2%
cis-1,2-Dichloroethene	0.251	7.3%	0.265	5.6%
Chloroform	0.357	5.7%	0.371	3.9%
1,1,1-Trichloroethane	0.314	5.3%	0.336	7.0%
Carbon Tetrachloride	0.282	7.1%	0.294	4.3%
1,2-Dichloroethane	0.200	6.4%	0.215	7.5%
Benzene	0.951	15.2%	0.962	1.2%
Trichloroethene	0.240	6.3%	0.242	0.8%
Toluene	0.623	15.0%	0.644	3.4%
1,1,2-Trichloroethane	0.131	4.8%	0.142	8.4%
Tetrachloroethene	0.244	14.6%	0.239	2.0%
Ethylbenzene	0.516	11.5%	0.530	2.7%
1,1,1,2-Tetrachloroethane	0.279	4.5%	0.301	7.9%
m,p-Xylene	0.656	16.1%	0.651	0.8%
o-Xylene	0.585	14.9%	0.611	4.4%
1,1,2,2-Tetrachloroethane	0.454	7.8%	0.522	15.0%
<u>Acceptable Limits</u>		<u>20.0%</u>		<u>15.0%</u>
<u>'**' Indicates RSD not to exceed 30% & LCS not to exceed 25%</u>				