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11:18 am, Oct 16, 2012

Alameda County
Environmental Health

October 9 2012

Mr. Jerry Wickham, PG
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

**Re: Update of the Soil Vapor Sample Analytical Report Presented in the
SUB-SLAB SOIL VAPOR SAMPLING REPORT**
P&D 23rd Avenue Associates
1125 Miller Avenue, Oakland, CA
Clearwater Project No. CB018H
ACEH Fuel Case Leak No. RO0000294

Dear Mr. Wickham,

As the legally authorized representative of the above-referenced project location I have reviewed the attached report prepared by my consultant of record, Clearwater Group. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document are true and correct to the best of my knowledge.

Sincerely,


John Protopappas



October 9, 2012

Mr. Jerry Wickham, PG
Hazardous Materials Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Update of the Soil Vapor Sample Analytical Report Presented in the
SUB-SLAB SOIL VAPOR SAMPLING REPORT
by Clearwater Group
Dated February 29, 2012

For: P&D 23rd Avenue Associates LLC
(Formerly 23rd Avenue Partners)
1125 Miller Avenue
Oakland, California

Dear Mr. Wickham,

Clearwater Group is pleased to present this update of the analytical results of soil vapor samples SS-1 through SS-10, reported in Clearwater Group's February 29, 2012, *Sub-Slab Soil Vapor Sampling Report* (Report). For the Report's laboratory data, the analytical laboratory, Air Toxics LTD, of Folsom, California (Air Toxics) did not present an EPA Method TO-15 GC/MS Full Scan of all the analytes, even though these analyses were performed. The Report presented data from Air Toxics Workorders #1112267D, #1112268A, #1112268B, and #1112268C.

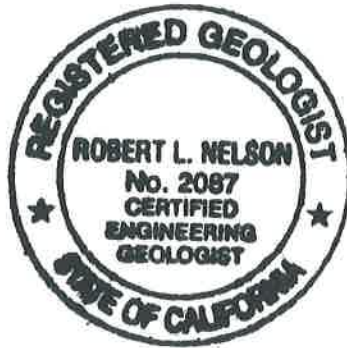
For this update Eurofins/Air Toxics (the former Air Toxics) presented an EPA Method TO-15 GC/MS Full Scan for the same soil vapor samples presented in the Report. The updated results are presented in Eurofins/Air Toxics Workorder #1112268ARI, which is attached. The attached table presents all the soil vapor sample analytical results to date. Please note that all Volatile

Organic Compound values are well below the residential California Human Health Screening Levels (CHHSLs). Please do not hesitate to contact Clearwater Group if you have any question, or concerns.

Sincerely,



Robert L. Nelson, PG, CEG
Senior Geologist



Attachment:

Attachment 1 - Eurofins/Air Toxics Workorder #1112268ARI

Table:

Table 1 - Soil Vapor Sample Analytical Results – Results Compared to Low-Threat UST Closure Policy Thresholds with No Bioattenuation Zone

Distribution: Mr. John Protopappas
Madison Park Financial Corporation
155 Grand Avenue, Suite 1025
Oakland, CA 94612

Alameda County Environmental Health Services
(Sent via electronic upload to Geotracker website)

ATTACHMENT 1

Eurofins/Air Toxics

Workorder #1112268AR1

9/10/2012

Ms. Olivia Jacobs
Clearwater Group, Inc.
229 Tewksbury Avenue

Point Richmond CA 94801

Project Name: 1125 Miller
Project #:
Workorder #: 1112268AR1

Dear Ms. Olivia Jacobs

The following report includes the data for the above referenced project for sample(s) received on 12/13/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-14A/15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kyle Vagadori
Project Manager

WORK ORDER #: 1112268AR1

Work Order Summary

CLIENT: Ms. Olivia Jacobs
 Clearwater Group, Inc.
 229 Tewksbury Avenue
 Point Richmond, CA 94801

BILL TO: Ms. Olivia Jacobs
 Clearwater Group, Inc.
 229 Tewksbury Avenue
 Point Richmond, CA 94801

PHONE: 510-307-9943

P.O. #

FAX:

PROJECT # 1125 Miller

DATE RECEIVED: 12/13/2011

CONTACT: Kyle Vagadori

DATE COMPLETED: 12/20/2011

DATE REISSUED: 09/10/2012

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SS-10	Modified TO-14A/15 (5&20)	3.5 "Hg	5 psi
02A	SS-9	Modified TO-14A/15 (5&20)	5.0 "Hg	5 psi
03A	SS-8	Modified TO-14A/15 (5&20)	5.5 "Hg	5 psi
04A	SS-5	Modified TO-14A/15 (5&20)	4.0 "Hg	5 psi
05A	SS-4	Modified TO-14A/15 (5&20)	4.0 "Hg	5 psi
06A	SS-3	Modified TO-14A/15 (5&20)	4.5 "Hg	5 psi
07A	SS-2	Modified TO-14A/15 (5&20)	4.5 "Hg	5 psi
08A	SS-1	Modified TO-14A/15 (5&20)	4.0 "Hg	5 psi
09A	SS-6	Modified TO-14A/15 (5&20)	4.5 "Hg	5 psi
10A	SS-7	Modified TO-14A/15 (5&20)	4.0 "Hg	5 psi
11A	Lab Blank	Modified TO-14A/15 (5&20)	NA	NA
12A	CCV	Modified TO-14A/15 (5&20)	NA	NA
13A	LCS	Modified TO-14A/15 (5&20)	NA	NA
13AA	LCSD	Modified TO-14A/15 (5&20)	NA	NA

CERTIFIED BY: *Heidi Gray*

DATE: 09/10/12

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
 TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.

Eurofins 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 Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



LABORATORY NARRATIVE
EPA Method TO-15
Clearwater Group, Inc.
Workorder# 1112268AR1

Ten 1 Liter Summa Canister and one PAC250 Canister samples were received on December 13, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

TPH gasoline was detected at a concentration less than 5 times the reporting limit in sample SS-7. Because the preceding sample contained high concentration of TPH gasoline, the result for TPH gasoline in sample SS-7 may be biased high for possible carry-over. A re-analysis of sample SS-7 was not possible due to insufficient sample volume.

THE WORKORDER WAS REISSUED ON SEPTEMBER 10, 2012 TO REPORT ADDITIONAL COMPOUNDS PER CLIENT'S REQUEST.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

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

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

Client Sample ID: SS-10

Lab ID#: 1112268AR1-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.76	12	2.4	37
Toluene	0.76	42	2.9	160
Ethyl Benzene	0.76	8.5	3.3	37
m,p-Xylene	0.76	31	3.3	140
o-Xylene	0.76	16	3.3	68
1,3,5-Trimethylbenzene	0.76	3.2	3.7	16
1,2,4-Trimethylbenzene	0.76	9.5	3.7	47
Propylbenzene	0.76	2.5	3.7	12
4-Ethyltoluene	0.76	9.1	3.7	45
Ethanol	3.0	3.8	5.7	7.1
TPH ref. to Gasoline (MW=100)	38	470	160	1900

Client Sample ID: SS-9

Lab ID#: 1112268AR1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrahydrofuran	0.80	0.87	2.4	2.6
TPH ref. to Gasoline (MW=100)	40	75	160	310

Client Sample ID: SS-8

Lab ID#: 1112268AR1-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrahydrofuran	0.82	0.85	2.4	2.5
TPH ref. to Gasoline (MW=100)	41	82	170	340

Client Sample ID: SS-5

Lab ID#: 1112268AR1-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.78	1.0	3.8	5.2
Tetrachloroethene	0.78	36	5.2	240

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

Client Sample ID: SS-4

Lab ID#: 1112268AR1-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.78	19	5.2	130
Tetrahydrofuran	0.78	0.86	2.3	2.5

Client Sample ID: SS-3

Lab ID#: 1112268AR1-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	7.9	19	27	67
Toluene	0.79	1.0	3.0	3.8
Ethyl Benzene	0.79	4.4	3.4	19
m,p-Xylene	0.79	15	3.4	66
o-Xylene	0.79	12	3.4	53
1,3,5-Trimethylbenzene	0.79	1.7	3.9	8.3
1,2,4-Trimethylbenzene	0.79	2.7	3.9	13
Hexane	0.79	0.89	2.8	3.1
Cyclohexane	0.79	47	2.7	160
Cumene	0.79	0.79	3.9	3.9
Acetone	7.9	110	19	270
Tetrahydrofuran	0.79	0.81	2.3	2.4
4-Ethyltoluene	0.79	3.3	3.9	16
Ethanol	3.2	5.3	6.0	10
TPH ref. to Gasoline (MW=100)	40	2800	160	11000

Client Sample ID: SS-2

Lab ID#: 1112268AR1-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.79	1.1	3.8	5.5
Acetone	7.9	7.9	19	19

Client Sample ID: SS-1

Lab ID#: 1112268AR1-08A

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

Client Sample ID: SS-1

Lab ID#: 1112268AR1-08A

No Detections Were Found.

Client Sample ID: SS-6

Lab ID#: 1112268AR1-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.79	0.96	3.9	4.7
Freon 113	0.79	1.2	6.0	9.3
Tetrachloroethene	0.79	0.84	5.4	5.7
Acetone	7.9	9.1	19	22

Client Sample ID: SS-7

Lab ID#: 1112268AR1-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.78	0.90	3.8	4.5
Freon 11	0.78	0.96	4.4	5.4
Freon 113	0.78	1.5	5.9	12
1,2,4-Trimethylbenzene	0.78	1.8	3.8	8.8
Cyclohexane	0.78	1.5	2.7	5.2
Acetone	7.8	8.3	18	20
4-Ethyltoluene	0.78	1.9	3.8	9.4
TPH ref. to Gasoline (MW=100)	39	130	160	530



Air Toxics

Client Sample ID: SS-10

Lab ID#: 1112268AR1-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121514r1	Date of Collection:	12/8/11 11:14:00 AM
Dil. Factor:	1.52	Date of Analysis:	12/15/11 07:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.76	Not Detected	3.8	Not Detected
Freon 114	0.76	Not Detected	5.3	Not Detected
Vinyl Chloride	0.76	Not Detected	1.9	Not Detected
Bromomethane	7.6	Not Detected	30	Not Detected
Chloroethane	3.0	Not Detected	8.0	Not Detected
Freon 11	0.76	Not Detected	4.3	Not Detected
1,1-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Freon 113	0.76	Not Detected	5.8	Not Detected
Methylene Chloride	7.6	Not Detected	26	Not Detected
1,1-Dichloroethane	0.76	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Chloroform	0.76	Not Detected	3.7	Not Detected
1,1,1-Trichloroethane	0.76	Not Detected	4.1	Not Detected
Carbon Tetrachloride	0.76	Not Detected	4.8	Not Detected
Benzene	0.76	12	2.4	37
1,2-Dichloroethane	0.76	Not Detected	3.1	Not Detected
Trichloroethene	0.76	Not Detected	4.1	Not Detected
1,2-Dichloropropane	0.76	Not Detected	3.5	Not Detected
cis-1,3-Dichloropropene	0.76	Not Detected	3.4	Not Detected
Toluene	0.76	42	2.9	160
trans-1,3-Dichloropropene	0.76	Not Detected	3.4	Not Detected
1,1,2-Trichloroethane	0.76	Not Detected	4.1	Not Detected
Tetrachloroethene	0.76	Not Detected	5.2	Not Detected
1,2-Dibromoethane (EDB)	0.76	Not Detected	5.8	Not Detected
Chlorobenzene	0.76	Not Detected	3.5	Not Detected
Ethyl Benzene	0.76	8.5	3.3	37
m,p-Xylene	0.76	31	3.3	140
o-Xylene	0.76	16	3.3	68
Styrene	0.76	Not Detected	3.2	Not Detected
1,1,2,2-Tetrachloroethane	0.76	Not Detected	5.2	Not Detected
1,3,5-Trimethylbenzene	0.76	3.2	3.7	16
1,2,4-Trimethylbenzene	0.76	9.5	3.7	47
1,3-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.76	Not Detected	3.9	Not Detected
1,2-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
1,3-Butadiene	0.76	Not Detected	1.7	Not Detected
Hexane	0.76	Not Detected	2.7	Not Detected
Cyclohexane	0.76	Not Detected	2.6	Not Detected
Heptane	0.76	Not Detected	3.1	Not Detected
Bromodichloromethane	0.76	Not Detected	5.1	Not Detected
Dibromochloromethane	0.76	Not Detected	6.5	Not Detected



Client Sample ID: SS-10

Lab ID#: 1112268AR1-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121514r1	Date of Collection:	12/8/11 11:14:00 AM
Dil. Factor:	1.52	Date of Analysis:	12/15/11 07:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cumene	0.76	Not Detected	3.7	Not Detected
Propylbenzene	0.76	2.5	3.7	12
Chloromethane	7.6	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	22	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected
Acetone	7.6	Not Detected	18	Not Detected
Carbon Disulfide	3.0	Not Detected	9.5	Not Detected
2-Propanol	3.0	Not Detected	7.5	Not Detected
trans-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.0	Not Detected	9.0	Not Detected
Tetrahydrofuran	0.76	Not Detected	2.2	Not Detected
1,4-Dioxane	3.0	Not Detected	11	Not Detected
4-Methyl-2-pentanone	0.76	Not Detected	3.1	Not Detected
2-Hexanone	3.0	Not Detected	12	Not Detected
Bromoform	0.76	Not Detected	7.8	Not Detected
4-Ethyltoluene	0.76	9.1	3.7	45
Ethanol	3.0	3.8	5.7	7.1
Methyl tert-butyl ether	0.76	Not Detected	2.7	Not Detected
tert-Butyl alcohol	3.0	Not Detected	9.2	Not Detected
Ethyl-tert-butyl ether	3.0	Not Detected	13	Not Detected
Isopropyl ether	3.0	Not Detected	13	Not Detected
tert-Amyl methyl ether	3.0	Not Detected	13	Not Detected
3-Chloropropene	3.0	Not Detected	9.5	Not Detected
2,2,4-Trimethylpentane	0.76	Not Detected	3.6	Not Detected
TPH ref. to Gasoline (MW=100)	38	470	160	1900

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: SS-9

Lab ID#: 1112268AR1-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121515r1	Date of Collection:	12/8/11 12:23:00 PM
Dil. Factor:	1.61	Date of Analysis:	12/15/11 07:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.80	Not Detected	4.0	Not Detected
Freon 114	0.80	Not Detected	5.6	Not Detected
Vinyl Chloride	0.80	Not Detected	2.0	Not Detected
Bromomethane	8.0	Not Detected	31	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
Freon 11	0.80	Not Detected	4.5	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Freon 113	0.80	Not Detected	6.2	Not Detected
Methylene Chloride	8.0	Not Detected	28	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Chloroform	0.80	Not Detected	3.9	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.1	Not Detected
Benzene	0.80	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.80	Not Detected	3.2	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
Toluene	0.80	Not Detected	3.0	Not Detected
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Tetrachloroethene	0.80	Not Detected	5.5	Not Detected
1,2-Dibromoethane (EDB)	0.80	Not Detected	6.2	Not Detected
Chlorobenzene	0.80	Not Detected	3.7	Not Detected
Ethyl Benzene	0.80	Not Detected	3.5	Not Detected
m,p-Xylene	0.80	Not Detected	3.5	Not Detected
o-Xylene	0.80	Not Detected	3.5	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected
1,1,2,2-Tetrachloroethane	0.80	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Hexane	0.80	Not Detected	2.8	Not Detected
Cyclohexane	0.80	Not Detected	2.8	Not Detected
Heptane	0.80	Not Detected	3.3	Not Detected
Bromodichloromethane	0.80	Not Detected	5.4	Not Detected
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected



Client Sample ID: SS-9

Lab ID#: 1112268AR1-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121515r1	Date of Collection:	12/8/11 12:23:00 PM
Dil. Factor:	1.61	Date of Analysis:	12/15/11 07:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cumene	0.80	Not Detected	4.0	Not Detected
Propylbenzene	0.80	Not Detected	4.0	Not Detected
Chloromethane	8.0	Not Detected	17	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected
Acetone	8.0	Not Detected	19	Not Detected
Carbon Disulfide	3.2	Not Detected	10	Not Detected
2-Propanol	3.2	Not Detected	7.9	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.5	Not Detected
Tetrahydrofuran	0.80	0.87	2.4	2.6
1,4-Dioxane	3.2	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.3	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Bromoform	0.80	Not Detected	8.3	Not Detected
4-Ethyltoluene	0.80	Not Detected	4.0	Not Detected
Ethanol	3.2	Not Detected	6.1	Not Detected
Methyl tert-butyl ether	0.80	Not Detected	2.9	Not Detected
tert-Butyl alcohol	3.2	Not Detected	9.8	Not Detected
Ethyl-tert-butyl ether	3.2	Not Detected	13	Not Detected
Isopropyl ether	3.2	Not Detected	13	Not Detected
tert-Amyl methyl ether	3.2	Not Detected	13	Not Detected
3-Chloropropene	3.2	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
TPH ref. to Gasoline (MW=100)	40	75	160	310

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: SS-8

Lab ID#: 1112268AR1-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121516r1	Date of Collection:	12/8/11 1:17:00 AM
Dil. Factor:	1.64	Date of Analysis:	12/15/11 08:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Freon 114	0.82	Not Detected	5.7	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Bromomethane	8.2	Not Detected	32	Not Detected
Chloroethane	3.3	Not Detected	8.6	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Methylene Chloride	8.2	Not Detected	28	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Chloroform	0.82	Not Detected	4.0	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
Benzene	0.82	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.82	Not Detected	3.3	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Toluene	0.82	Not Detected	3.1	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
1,1,2-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.3	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
m,p-Xylene	0.82	Not Detected	3.6	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
1,1,2,2-Tetrachloroethane	0.82	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected
Heptane	0.82	Not Detected	3.4	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected



Client Sample ID: SS-8

Lab ID#: 1112268AR1-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121516r1	Date of Collection:	12/8/11 1:17:00 AM
Dil. Factor:	1.64	Date of Analysis:	12/15/11 08:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
Chloromethane	8.2	Not Detected	17	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected
Acetone	8.2	Not Detected	19	Not Detected
Carbon Disulfide	3.3	Not Detected	10	Not Detected
2-Propanol	3.3	Not Detected	8.1	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.7	Not Detected
Tetrahydrofuran	0.82	0.85	2.4	2.5
1,4-Dioxane	3.3	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Bromoform	0.82	Not Detected	8.5	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
Ethanol	3.3	Not Detected	6.2	Not Detected
Methyl tert-butyl ether	0.82	Not Detected	3.0	Not Detected
tert-Butyl alcohol	3.3	Not Detected	9.9	Not Detected
Ethyl-tert-butyl ether	3.3	Not Detected	14	Not Detected
Isopropyl ether	3.3	Not Detected	14	Not Detected
tert-Amyl methyl ether	3.3	Not Detected	14	Not Detected
3-Chloropropene	3.3	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
TPH ref. to Gasoline (MW=100)	41	82	170	340

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: SS-5

Lab ID#: 1112268AR1-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121517r1	Date of Collection:	12/8/11 2:34:00 AM
Dil. Factor:	1.55	Date of Analysis:	12/15/11 08:32 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.78	1.0	3.8	5.2
Freon 114	0.78	Not Detected	5.4	Not Detected
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
Bromomethane	7.8	Not Detected	30	Not Detected
Chloroethane	3.1	Not Detected	8.2	Not Detected
Freon 11	0.78	Not Detected	4.4	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Freon 113	0.78	Not Detected	5.9	Not Detected
Methylene Chloride	7.8	Not Detected	27	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Chloroform	0.78	Not Detected	3.8	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Carbon Tetrachloride	0.78	Not Detected	4.9	Not Detected
Benzene	0.78	Not Detected	2.5	Not Detected
1,2-Dichloroethane	0.78	Not Detected	3.1	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
Toluene	0.78	Not Detected	2.9	Not Detected
trans-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
1,1,2-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Tetrachloroethene	0.78	36	5.2	240
1,2-Dibromoethane (EDB)	0.78	Not Detected	6.0	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
Ethyl Benzene	0.78	Not Detected	3.4	Not Detected
m,p-Xylene	0.78	Not Detected	3.4	Not Detected
o-Xylene	0.78	Not Detected	3.4	Not Detected
Styrene	0.78	Not Detected	3.3	Not Detected
1,1,2,2-Tetrachloroethane	0.78	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.78	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Hexane	0.78	Not Detected	2.7	Not Detected
Cyclohexane	0.78	Not Detected	2.7	Not Detected
Heptane	0.78	Not Detected	3.2	Not Detected
Bromodichloromethane	0.78	Not Detected	5.2	Not Detected
Dibromochloromethane	0.78	Not Detected	6.6	Not Detected

Client Sample ID: SS-5

Lab ID#: 1112268AR1-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121517r1	Date of Collection:	12/8/11 2:34:00 AM
Dil. Factor:	1.55	Date of Analysis:	12/15/11 08:32 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cumene	0.78	Not Detected	3.8	Not Detected
Propylbenzene	0.78	Not Detected	3.8	Not Detected
Chloromethane	7.8	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected
Acetone	7.8	Not Detected	18	Not Detected
Carbon Disulfide	3.1	Not Detected	9.6	Not Detected
2-Propanol	3.1	Not Detected	7.6	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.1	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
1,4-Dioxane	3.1	Not Detected	11	Not Detected
4-Methyl-2-pentanone	0.78	Not Detected	3.2	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Bromoform	0.78	Not Detected	8.0	Not Detected
4-Ethyltoluene	0.78	Not Detected	3.8	Not Detected
Ethanol	3.1	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	0.78	Not Detected	2.8	Not Detected
tert-Butyl alcohol	3.1	Not Detected	9.4	Not Detected
Ethyl-tert-butyl ether	3.1	Not Detected	13	Not Detected
Isopropyl ether	3.1	Not Detected	13	Not Detected
tert-Amyl methyl ether	3.1	Not Detected	13	Not Detected
3-Chloropropene	3.1	Not Detected	9.7	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.6	Not Detected
TPH ref. to Gasoline (MW=100)	39	Not Detected	160	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: SS-4

Lab ID#: 1112268AR1-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121518r1	Date of Collection:	12/8/11 3:19:00 AM
Dil. Factor:	1.55	Date of Analysis:	12/15/11 08:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.78	Not Detected	3.8	Not Detected
Freon 114	0.78	Not Detected	5.4	Not Detected
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
Bromomethane	7.8	Not Detected	30	Not Detected
Chloroethane	3.1	Not Detected	8.2	Not Detected
Freon 11	0.78	Not Detected	4.4	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Freon 113	0.78	Not Detected	5.9	Not Detected
Methylene Chloride	7.8	Not Detected	27	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Chloroform	0.78	Not Detected	3.8	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Carbon Tetrachloride	0.78	Not Detected	4.9	Not Detected
Benzene	0.78	Not Detected	2.5	Not Detected
1,2-Dichloroethane	0.78	Not Detected	3.1	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
Toluene	0.78	Not Detected	2.9	Not Detected
trans-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
1,1,2-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Tetrachloroethene	0.78	19	5.2	130
1,2-Dibromoethane (EDB)	0.78	Not Detected	6.0	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
Ethyl Benzene	0.78	Not Detected	3.4	Not Detected
m,p-Xylene	0.78	Not Detected	3.4	Not Detected
o-Xylene	0.78	Not Detected	3.4	Not Detected
Styrene	0.78	Not Detected	3.3	Not Detected
1,1,2,2-Tetrachloroethane	0.78	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.78	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Hexane	0.78	Not Detected	2.7	Not Detected
Cyclohexane	0.78	Not Detected	2.7	Not Detected
Heptane	0.78	Not Detected	3.2	Not Detected
Bromodichloromethane	0.78	Not Detected	5.2	Not Detected
Dibromochloromethane	0.78	Not Detected	6.6	Not Detected



Air Toxics

Client Sample ID: SS-4

Lab ID#: 1112268AR1-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121518r1	Date of Collection:	12/8/11 3:19:00 AM
Dil. Factor:	1.55	Date of Analysis:	12/15/11 08:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cumene	0.78	Not Detected	3.8	Not Detected
Propylbenzene	0.78	Not Detected	3.8	Not Detected
Chloromethane	7.8	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected
Acetone	7.8	Not Detected	18	Not Detected
Carbon Disulfide	3.1	Not Detected	9.6	Not Detected
2-Propanol	3.1	Not Detected	7.6	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.1	Not Detected
Tetrahydrofuran	0.78	0.86	2.3	2.5
1,4-Dioxane	3.1	Not Detected	11	Not Detected
4-Methyl-2-pentanone	0.78	Not Detected	3.2	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Bromoform	0.78	Not Detected	8.0	Not Detected
4-Ethyltoluene	0.78	Not Detected	3.8	Not Detected
Ethanol	3.1	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	0.78	Not Detected	2.8	Not Detected
tert-Butyl alcohol	3.1	Not Detected	9.4	Not Detected
Ethyl-tert-butyl ether	3.1	Not Detected	13	Not Detected
Isopropyl ether	3.1	Not Detected	13	Not Detected
tert-Amyl methyl ether	3.1	Not Detected	13	Not Detected
3-Chloropropene	3.1	Not Detected	9.7	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.6	Not Detected
TPH ref. to Gasoline (MW=100)	39	Not Detected	160	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: SS-3

Lab ID#: 1112268AR1-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121522r1	Date of Collection:	12/8/11 4:05:00 AM
Dil. Factor:	1.58	Date of Analysis:	12/15/11 10:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.79	Not Detected	3.9	Not Detected
Freon 114	0.79	Not Detected	5.5	Not Detected
Vinyl Chloride	0.79	Not Detected	2.0	Not Detected
Bromomethane	7.9	Not Detected	31	Not Detected
Chloroethane	3.2	Not Detected	8.3	Not Detected
Freon 11	0.79	Not Detected	4.4	Not Detected
1,1-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Freon 113	0.79	Not Detected	6.0	Not Detected
Methylene Chloride	7.9	19	27	67
1,1-Dichloroethane	0.79	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Chloroform	0.79	Not Detected	3.8	Not Detected
1,1,1-Trichloroethane	0.79	Not Detected	4.3	Not Detected
Carbon Tetrachloride	0.79	Not Detected	5.0	Not Detected
Benzene	0.79	Not Detected	2.5	Not Detected
1,2-Dichloroethane	0.79	Not Detected	3.2	Not Detected
Trichloroethene	0.79	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.79	Not Detected	3.6	Not Detected
cis-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
Toluene	0.79	1.0	3.0	3.8
trans-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.79	Not Detected	4.3	Not Detected
Tetrachloroethene	0.79	Not Detected	5.4	Not Detected
1,2-Dibromoethane (EDB)	0.79	Not Detected	6.1	Not Detected
Chlorobenzene	0.79	Not Detected	3.6	Not Detected
Ethyl Benzene	0.79	4.4	3.4	19
m,p-Xylene	0.79	15	3.4	66
o-Xylene	0.79	12	3.4	53
Styrene	0.79	Not Detected	3.4	Not Detected
1,1,2,2-Tetrachloroethane	0.79	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	0.79	1.7	3.9	8.3
1,2,4-Trimethylbenzene	0.79	2.7	3.9	13
1,3-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.79	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.79	Not Detected	4.7	Not Detected
1,3-Butadiene	0.79	Not Detected	1.7	Not Detected
Hexane	0.79	0.89	2.8	3.1
Cyclohexane	0.79	47	2.7	160
Heptane	0.79	Not Detected	3.2	Not Detected
Bromodichloromethane	0.79	Not Detected	5.3	Not Detected
Dibromochloromethane	0.79	Not Detected	6.7	Not Detected



Client Sample ID: SS-3

Lab ID#: 1112268AR1-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121522r1	Date of Collection:	12/8/11 4:05:00 AM
Dil. Factor:	1.58	Date of Analysis:	12/15/11 10:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cumene	0.79	0.79	3.9	3.9
Propylbenzene	0.79	Not Detected	3.9	Not Detected
Chloromethane	7.9	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	23	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected
Acetone	7.9	110	19	270
Carbon Disulfide	3.2	Not Detected	9.8	Not Detected
2-Propanol	3.2	Not Detected	7.8	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.3	Not Detected
Tetrahydrofuran	0.79	0.81	2.3	2.4
1,4-Dioxane	3.2	Not Detected	11	Not Detected
4-Methyl-2-pentanone	0.79	Not Detected	3.2	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Bromoform	0.79	Not Detected	8.2	Not Detected
4-Ethyltoluene	0.79	3.3	3.9	16
Ethanol	3.2	5.3	6.0	10
Methyl tert-butyl ether	0.79	Not Detected	2.8	Not Detected
tert-Butyl alcohol	3.2	Not Detected	9.6	Not Detected
Ethyl-tert-butyl ether	3.2	Not Detected	13	Not Detected
Isopropyl ether	3.2	Not Detected	13	Not Detected
tert-Amyl methyl ether	3.2	Not Detected	13	Not Detected
3-Chloropropene	3.2	Not Detected	9.9	Not Detected
2,2,4-Trimethylpentane	0.79	Not Detected	3.7	Not Detected
TPH ref. to Gasoline (MW=100)	40	2800	160	11000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: SS-2

Lab ID#: 1112268AR1-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121519r1	Date of Collection:	12/9/11 1:52:00 AM
Dil. Factor:	1.58	Date of Analysis:	12/15/11 09:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.79	Not Detected	3.9	Not Detected
Freon 114	0.79	Not Detected	5.5	Not Detected
Vinyl Chloride	0.79	Not Detected	2.0	Not Detected
Bromomethane	7.9	Not Detected	31	Not Detected
Chloroethane	3.2	Not Detected	8.3	Not Detected
Freon 11	0.79	Not Detected	4.4	Not Detected
1,1-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Freon 113	0.79	Not Detected	6.0	Not Detected
Methylene Chloride	7.9	Not Detected	27	Not Detected
1,1-Dichloroethane	0.79	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Chloroform	0.79	1.1	3.8	5.5
1,1,1-Trichloroethane	0.79	Not Detected	4.3	Not Detected
Carbon Tetrachloride	0.79	Not Detected	5.0	Not Detected
Benzene	0.79	Not Detected	2.5	Not Detected
1,2-Dichloroethane	0.79	Not Detected	3.2	Not Detected
Trichloroethene	0.79	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.79	Not Detected	3.6	Not Detected
cis-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
Toluene	0.79	Not Detected	3.0	Not Detected
trans-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.79	Not Detected	4.3	Not Detected
Tetrachloroethene	0.79	Not Detected	5.4	Not Detected
1,2-Dibromoethane (EDB)	0.79	Not Detected	6.1	Not Detected
Chlorobenzene	0.79	Not Detected	3.6	Not Detected
Ethyl Benzene	0.79	Not Detected	3.4	Not Detected
m,p-Xylene	0.79	Not Detected	3.4	Not Detected
o-Xylene	0.79	Not Detected	3.4	Not Detected
Styrene	0.79	Not Detected	3.4	Not Detected
1,1,2,2-Tetrachloroethane	0.79	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,2,4-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,3-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.79	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.79	Not Detected	4.7	Not Detected
1,3-Butadiene	0.79	Not Detected	1.7	Not Detected
Hexane	0.79	Not Detected	2.8	Not Detected
Cyclohexane	0.79	Not Detected	2.7	Not Detected
Heptane	0.79	Not Detected	3.2	Not Detected
Bromodichloromethane	0.79	Not Detected	5.3	Not Detected
Dibromochloromethane	0.79	Not Detected	6.7	Not Detected



Client Sample ID: SS-2

Lab ID#: 1112268AR1-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121519r1	Date of Collection:	12/9/11 1:52:00 AM
Dil. Factor:	1.58	Date of Analysis:	12/15/11 09:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cumene	0.79	Not Detected	3.9	Not Detected
Propylbenzene	0.79	Not Detected	3.9	Not Detected
Chloromethane	7.9	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	23	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected
Acetone	7.9	7.9	19	19
Carbon Disulfide	3.2	Not Detected	9.8	Not Detected
2-Propanol	3.2	Not Detected	7.8	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.3	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.3	Not Detected
1,4-Dioxane	3.2	Not Detected	11	Not Detected
4-Methyl-2-pentanone	0.79	Not Detected	3.2	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Bromoform	0.79	Not Detected	8.2	Not Detected
4-Ethyltoluene	0.79	Not Detected	3.9	Not Detected
Ethanol	3.2	Not Detected	6.0	Not Detected
Methyl tert-butyl ether	0.79	Not Detected	2.8	Not Detected
tert-Butyl alcohol	3.2	Not Detected	9.6	Not Detected
Ethyl-tert-butyl ether	3.2	Not Detected	13	Not Detected
Isopropyl ether	3.2	Not Detected	13	Not Detected
tert-Amyl methyl ether	3.2	Not Detected	13	Not Detected
3-Chloropropene	3.2	Not Detected	9.9	Not Detected
2,2,4-Trimethylpentane	0.79	Not Detected	3.7	Not Detected
TPH ref. to Gasoline (MW=100)	40	Not Detected	160	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: SS-1

Lab ID#: 1112268AR1-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121520r1	Date of Collection:	12/9/11 2:37:00 AM
Dil. Factor:	1.55	Date of Analysis:	12/15/11 09:39 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.78	Not Detected	3.8	Not Detected
Freon 114	0.78	Not Detected	5.4	Not Detected
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
Bromomethane	7.8	Not Detected	30	Not Detected
Chloroethane	3.1	Not Detected	8.2	Not Detected
Freon 11	0.78	Not Detected	4.4	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Freon 113	0.78	Not Detected	5.9	Not Detected
Methylene Chloride	7.8	Not Detected	27	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Chloroform	0.78	Not Detected	3.8	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Carbon Tetrachloride	0.78	Not Detected	4.9	Not Detected
Benzene	0.78	Not Detected	2.5	Not Detected
1,2-Dichloroethane	0.78	Not Detected	3.1	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
Toluene	0.78	Not Detected	2.9	Not Detected
trans-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
1,1,2-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Tetrachloroethene	0.78	Not Detected	5.2	Not Detected
1,2-Dibromoethane (EDB)	0.78	Not Detected	6.0	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
Ethyl Benzene	0.78	Not Detected	3.4	Not Detected
m,p-Xylene	0.78	Not Detected	3.4	Not Detected
o-Xylene	0.78	Not Detected	3.4	Not Detected
Styrene	0.78	Not Detected	3.3	Not Detected
1,1,2,2-Tetrachloroethane	0.78	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.78	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Hexane	0.78	Not Detected	2.7	Not Detected
Cyclohexane	0.78	Not Detected	2.7	Not Detected
Heptane	0.78	Not Detected	3.2	Not Detected
Bromodichloromethane	0.78	Not Detected	5.2	Not Detected
Dibromochloromethane	0.78	Not Detected	6.6	Not Detected



Air Toxics

Client Sample ID: SS-1

Lab ID#: 1112268AR1-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121520r1	Date of Collection:	12/9/11 2:37:00 AM
Dil. Factor:	1.55	Date of Analysis:	12/15/11 09:39 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cumene	0.78	Not Detected	3.8	Not Detected
Propylbenzene	0.78	Not Detected	3.8	Not Detected
Chloromethane	7.8	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected
Acetone	7.8	Not Detected	18	Not Detected
Carbon Disulfide	3.1	Not Detected	9.6	Not Detected
2-Propanol	3.1	Not Detected	7.6	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.1	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
1,4-Dioxane	3.1	Not Detected	11	Not Detected
4-Methyl-2-pentanone	0.78	Not Detected	3.2	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Bromoform	0.78	Not Detected	8.0	Not Detected
4-Ethyltoluene	0.78	Not Detected	3.8	Not Detected
Ethanol	3.1	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	0.78	Not Detected	2.8	Not Detected
tert-Butyl alcohol	3.1	Not Detected	9.4	Not Detected
Ethyl-tert-butyl ether	3.1	Not Detected	13	Not Detected
Isopropyl ether	3.1	Not Detected	13	Not Detected
tert-Amyl methyl ether	3.1	Not Detected	13	Not Detected
3-Chloropropene	3.1	Not Detected	9.7	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.6	Not Detected
TPH ref. to Gasoline (MW=100)	39	Not Detected	160	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: SS-6

Lab ID#: 1112268AR1-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121521r1	Date of Collection:	12/9/11 3:22:00 AM
Dil. Factor:	1.58	Date of Analysis:	12/15/11 10:06 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.79	0.96	3.9	4.7
Freon 114	0.79	Not Detected	5.5	Not Detected
Vinyl Chloride	0.79	Not Detected	2.0	Not Detected
Bromomethane	7.9	Not Detected	31	Not Detected
Chloroethane	3.2	Not Detected	8.3	Not Detected
Freon 11	0.79	Not Detected	4.4	Not Detected
1,1-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Freon 113	0.79	1.2	6.0	9.3
Methylene Chloride	7.9	Not Detected	27	Not Detected
1,1-Dichloroethane	0.79	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Chloroform	0.79	Not Detected	3.8	Not Detected
1,1,1-Trichloroethane	0.79	Not Detected	4.3	Not Detected
Carbon Tetrachloride	0.79	Not Detected	5.0	Not Detected
Benzene	0.79	Not Detected	2.5	Not Detected
1,2-Dichloroethane	0.79	Not Detected	3.2	Not Detected
Trichloroethene	0.79	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.79	Not Detected	3.6	Not Detected
cis-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
Toluene	0.79	Not Detected	3.0	Not Detected
trans-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.79	Not Detected	4.3	Not Detected
Tetrachloroethene	0.79	0.84	5.4	5.7
1,2-Dibromoethane (EDB)	0.79	Not Detected	6.1	Not Detected
Chlorobenzene	0.79	Not Detected	3.6	Not Detected
Ethyl Benzene	0.79	Not Detected	3.4	Not Detected
m,p-Xylene	0.79	Not Detected	3.4	Not Detected
o-Xylene	0.79	Not Detected	3.4	Not Detected
Styrene	0.79	Not Detected	3.4	Not Detected
1,1,2,2-Tetrachloroethane	0.79	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,2,4-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,3-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.79	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.79	Not Detected	4.7	Not Detected
1,3-Butadiene	0.79	Not Detected	1.7	Not Detected
Hexane	0.79	Not Detected	2.8	Not Detected
Cyclohexane	0.79	Not Detected	2.7	Not Detected
Heptane	0.79	Not Detected	3.2	Not Detected
Bromodichloromethane	0.79	Not Detected	5.3	Not Detected
Dibromochloromethane	0.79	Not Detected	6.7	Not Detected



Client Sample ID: SS-6

Lab ID#: 1112268AR1-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121521r1	Date of Collection:	12/9/11 3:22:00 AM
Dil. Factor:	1.58	Date of Analysis:	12/15/11 10:06 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cumene	0.79	Not Detected	3.9	Not Detected
Propylbenzene	0.79	Not Detected	3.9	Not Detected
Chloromethane	7.9	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	23	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected
Acetone	7.9	9.1	19	22
Carbon Disulfide	3.2	Not Detected	9.8	Not Detected
2-Propanol	3.2	Not Detected	7.8	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.3	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.3	Not Detected
1,4-Dioxane	3.2	Not Detected	11	Not Detected
4-Methyl-2-pentanone	0.79	Not Detected	3.2	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Bromoform	0.79	Not Detected	8.2	Not Detected
4-Ethyltoluene	0.79	Not Detected	3.9	Not Detected
Ethanol	3.2	Not Detected	6.0	Not Detected
Methyl tert-butyl ether	0.79	Not Detected	2.8	Not Detected
tert-Butyl alcohol	3.2	Not Detected	9.6	Not Detected
Ethyl-tert-butyl ether	3.2	Not Detected	13	Not Detected
Isopropyl ether	3.2	Not Detected	13	Not Detected
tert-Amyl methyl ether	3.2	Not Detected	13	Not Detected
3-Chloropropene	3.2	Not Detected	9.9	Not Detected
2,2,4-Trimethylpentane	0.79	Not Detected	3.7	Not Detected
TPH ref. to Gasoline (MW=100)	40	Not Detected	160	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: SS-7

Lab ID#: 1112268AR1-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121523r1	Date of Collection:	12/9/11 4:07:00 AM
Dil. Factor:	1.55	Date of Analysis:	12/15/11 10:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.78	0.90	3.8	4.5
Freon 114	0.78	Not Detected	5.4	Not Detected
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
Bromomethane	7.8	Not Detected	30	Not Detected
Chloroethane	3.1	Not Detected	8.2	Not Detected
Freon 11	0.78	0.96	4.4	5.4
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Freon 113	0.78	1.5	5.9	12
Methylene Chloride	7.8	Not Detected	27	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Chloroform	0.78	Not Detected	3.8	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Carbon Tetrachloride	0.78	Not Detected	4.9	Not Detected
Benzene	0.78	Not Detected	2.5	Not Detected
1,2-Dichloroethane	0.78	Not Detected	3.1	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
Toluene	0.78	Not Detected	2.9	Not Detected
trans-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
1,1,2-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Tetrachloroethene	0.78	Not Detected	5.2	Not Detected
1,2-Dibromoethane (EDB)	0.78	Not Detected	6.0	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
Ethyl Benzene	0.78	Not Detected	3.4	Not Detected
m,p-Xylene	0.78	Not Detected	3.4	Not Detected
o-Xylene	0.78	Not Detected	3.4	Not Detected
Styrene	0.78	Not Detected	3.3	Not Detected
1,1,2,2-Tetrachloroethane	0.78	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.78	1.8	3.8	8.8
1,3-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.78	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Hexane	0.78	Not Detected	2.7	Not Detected
Cyclohexane	0.78	1.5	2.7	5.2
Heptane	0.78	Not Detected	3.2	Not Detected
Bromodichloromethane	0.78	Not Detected	5.2	Not Detected
Dibromochloromethane	0.78	Not Detected	6.6	Not Detected



Client Sample ID: SS-7

Lab ID#: 1112268AR1-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121523r1	Date of Collection:	12/9/11 4:07:00 AM
Dil. Factor:	1.55	Date of Analysis:	12/15/11 10:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cumene	0.78	Not Detected	3.8	Not Detected
Propylbenzene	0.78	Not Detected	3.8	Not Detected
Chloromethane	7.8	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected
Acetone	7.8	8.3	18	20
Carbon Disulfide	3.1	Not Detected	9.6	Not Detected
2-Propanol	3.1	Not Detected	7.6	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.1	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
1,4-Dioxane	3.1	Not Detected	11	Not Detected
4-Methyl-2-pentanone	0.78	Not Detected	3.2	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Bromoform	0.78	Not Detected	8.0	Not Detected
4-Ethyltoluene	0.78	1.9	3.8	9.4
Ethanol	3.1	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	0.78	Not Detected	2.8	Not Detected
tert-Butyl alcohol	3.1	Not Detected	9.4	Not Detected
Ethyl-tert-butyl ether	3.1	Not Detected	13	Not Detected
Isopropyl ether	3.1	Not Detected	13	Not Detected
tert-Amyl methyl ether	3.1	Not Detected	13	Not Detected
3-Chloropropene	3.1	Not Detected	9.7	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.6	Not Detected
TPH ref. to Gasoline (MW=100)	39	130	160	530

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1112268AR1-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121508	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	12/15/11 04:12 PM

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
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	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
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	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
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	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
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected



Client Sample ID: Lab Blank

Lab ID#: 1112268AR1-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121508	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	12/15/11 04:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
tert-Butyl alcohol	2.0	Not Detected	6.1	Not Detected
Ethyl-tert-butyl ether	2.0	Not Detected	8.4	Not Detected
Isopropyl ether	2.0	Not Detected	8.4	Not Detected
tert-Amyl methyl ether	2.0	Not Detected	8.4	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
TPH ref. to Gasoline (MW=100)	25	Not Detected	100	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1112268AR1-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/15/11 12:25 PM

Compound	%Recovery
Freon 12	106
Freon 114	106
Vinyl Chloride	110
Bromomethane	117
Chloroethane	104
Freon 11	106
1,1-Dichloroethene	109
Freon 113	104
Methylene Chloride	100
1,1-Dichloroethane	101
cis-1,2-Dichloroethene	100
Chloroform	102
1,1,1-Trichloroethane	103
Carbon Tetrachloride	96
Benzene	99
1,2-Dichloroethane	102
Trichloroethene	100
1,2-Dichloropropane	100
cis-1,3-Dichloropropene	104
Toluene	96
trans-1,3-Dichloropropene	107
1,1,2-Trichloroethane	102
Tetrachloroethene	103
1,2-Dibromoethane (EDB)	102
Chlorobenzene	94
Ethyl Benzene	98
m,p-Xylene	100
o-Xylene	100
Styrene	101
1,1,2,2-Tetrachloroethane	101
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	109
1,2-Dichlorobenzene	100
1,3-Butadiene	111
Hexane	103
Cyclohexane	98
Heptane	102
Bromodichloromethane	105
Dibromochloromethane	107

Client Sample ID: CCV

Lab ID#: 1112268AR1-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/15/11 12:25 PM

Compound	%Recovery
Cumene	103
Propylbenzene	102
Chloromethane	109
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	98
Acetone	97
Carbon Disulfide	102
2-Propanol	102
trans-1,2-Dichloroethene	100
2-Butanone (Methyl Ethyl Ketone)	99
Tetrahydrofuran	94
1,4-Dioxane	99
4-Methyl-2-pentanone	102
2-Hexanone	103
Bromoform	108
4-Ethyltoluene	100
Ethanol	102
Methyl tert-butyl ether	102
tert-Butyl alcohol	97
Ethyl-tert-butyl ether	99
Isopropyl ether	100
tert-Amyl methyl ether	99
3-Chloropropene	106
2,2,4-Trimethylpentane	95
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: LCS

Lab ID#: 1112268AR1-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/15/11 12:43 PM

Compound	%Recovery
Freon 12	105
Freon 114	105
Vinyl Chloride	111
Bromomethane	115
Chloroethane	103
Freon 11	105
1,1-Dichloroethene	116
Freon 113	104
Methylene Chloride	100
1,1-Dichloroethane	100
cis-1,2-Dichloroethene	98
Chloroform	99
1,1,1-Trichloroethane	103
Carbon Tetrachloride	101
Benzene	100
1,2-Dichloroethane	101
Trichloroethene	100
1,2-Dichloropropane	100
cis-1,3-Dichloropropene	103
Toluene	96
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	100
Tetrachloroethene	99
1,2-Dibromoethane (EDB)	102
Chlorobenzene	94
Ethyl Benzene	98
m,p-Xylene	100
o-Xylene	100
Styrene	102
1,1,2,2-Tetrachloroethane	103
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	100
1,3-Butadiene	108
Hexane	103
Cyclohexane	98
Heptane	97
Bromodichloromethane	105
Dibromochloromethane	104



Air Toxics

Client Sample ID: LCS

Lab ID#: 1112268AR1-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/15/11 12:43 PM

Compound	%Recovery
Cumene	103
Propylbenzene	102
Chloromethane	108
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	104
Acetone	97
Carbon Disulfide	124
2-Propanol	102
trans-1,2-Dichloroethene	114
2-Butanone (Methyl Ethyl Ketone)	100
Tetrahydrofuran	91
1,4-Dioxane	99
4-Methyl-2-pentanone	102
2-Hexanone	104
Bromoform	105
4-Ethyltoluene	98
Ethanol	98
Methyl tert-butyl ether	103
tert-Butyl alcohol	Not Spiked
Ethyl-tert-butyl ether	Not Spiked
Isopropyl ether	Not Spiked
tert-Amyl methyl ether	Not Spiked
3-Chloropropene	119
2,2,4-Trimethylpentane	93
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1112268AR1-13AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/15/11 01:01 PM

Compound	%Recovery
Freon 12	105
Freon 114	105
Vinyl Chloride	110
Bromomethane	113
Chloroethane	101
Freon 11	104
1,1-Dichloroethene	113
Freon 113	105
Methylene Chloride	98
1,1-Dichloroethane	100
cis-1,2-Dichloroethene	98
Chloroform	98
1,1,1-Trichloroethane	102
Carbon Tetrachloride	101
Benzene	101
1,2-Dichloroethane	101
Trichloroethene	101
1,2-Dichloropropane	100
cis-1,3-Dichloropropene	104
Toluene	97
trans-1,3-Dichloropropene	102
1,1,2-Trichloroethane	98
Tetrachloroethene	98
1,2-Dibromoethane (EDB)	100
Chlorobenzene	95
Ethyl Benzene	98
m,p-Xylene	100
o-Xylene	99
Styrene	106
1,1,2,2-Tetrachloroethane	100
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	100
1,3-Butadiene	105
Hexane	101
Cyclohexane	97
Heptane	98
Bromodichloromethane	104
Dibromochloromethane	101



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1112268AR1-13AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o121504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/15/11 01:01 PM

Compound	%Recovery
Cumene	103
Propylbenzene	103
Chloromethane	107
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	105
Acetone	104
Carbon Disulfide	123
2-Propanol	103
trans-1,2-Dichloroethene	113
2-Butanone (Methyl Ethyl Ketone)	96
Tetrahydrofuran	90
1,4-Dioxane	99
4-Methyl-2-pentanone	103
2-Hexanone	103
Bromoform	102
4-Ethyltoluene	97
Ethanol	99
Methyl tert-butyl ether	103
tert-Butyl alcohol	Not Spiked
Ethyl-tert-butyl ether	Not Spiked
Isopropyl ether	Not Spiked
tert-Amyl methyl ether	Not Spiked
3-Chloropropene	124
2,2,4-Trimethylpentane	91
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

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



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager Olivia Jacobs
 Collected by: (Print and Sign) Ross Tinline
 Company Clearwater Gp Email ojacobs@clearwater.com
 Address 229 Teaksbury Rd City Pt. Richmond State CA Zip 94801
 Phone 510 307 9973 Fax 510 232-2823

Project Info:	Turn Around Time:	Lab Use Only
	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Pressurized by: Date: Pressurization Gas: N ₂ He
P.O. # _____		
Project # _____		
Project Name <u>1125 Miller</u>		

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	SS-10	35652	12-8-11	11:08-11:14	TPHg, BTEX	-29.54	-4.35		413
02A	SS-9	31763	12-8-11	12:18-12:23	fuel oxygenates	-29.38	-4.70		390
03A	SS-8	34116	12-8-11	1:12-1:17	incl. leak check	-29.28	-5.60		409
04A	SS-5	37423	12-8-11	2:28-2:34	compound propane	-29.25	-4.86		497
05A	SS-4	35657	12-8-11	3:12-3:19		-28.98	-4.64		6575
06A	SS-3	37719	12-8-11	3:59-4:05		-29.30	-5.00		6377
07A	SS-2	33718	12-9-11	1:47-1:52		-29.16	-5.24		169
08A	SS-1	36432	12-9-11	2:31-2:37		-29.10	-5.10		483
09A	SS-6	30826	12-9-11	3:16-3:22		-29.07	-5.30		6863
10A	SS-7 SS-7(1PA)	34170 2897	12-9-11 12-9-11	4:01-4:07 4:05-4:07	2 Propane only	-29.35	-4.80		6490
						-29.65	-3		100950

Relinquished by: (signature) <u>Ross Tinline</u> Date/Time <u>12-12-11</u>	Received by: (signature) <u>Fedex</u> Date/Time <u>12-12-11</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) <u>W. Wittscher</u> Date/Time <u>12/13/11</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____

Notes:
 Provide TPHg chromatograms for SS-3 & SS-4
 * additionally analyze SS-3 for Propane

Lab Use Only	Shipper Name <u>Fedex</u>	Air Bill # _____	Temp (°C) <u>N/A</u>	Condition <u>Good</u>	Custody Seals Intact? Yes No <u>None</u>	Work Order # <u>1112208</u>
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TABLE 1

Soil Vapor Sample analytical Results

TABLE 1
Soil Vapor Sample Analytical Results - Results Compared to Low-Threat UST Case Closure Policy Thresholds With No Bioattenuation Zone^d
P & D 23rd Avenue Associates LLC
1125 Miller Avenue, Oakland, CA
Clearwater Project No. CB018H

Sample ID	Sampling Date	Analytical Method	TPH-d (µg/m ³)	Naphthalene (µg/m ³) 93,000	1-Methyl naphthalene (µg/m ³)	2-Methyl naphthalene (µg/m ³)	TPH-g (µg/m ³)	B (µg/m ³) 85,000	T (µg/m ³) 1,100,000	E (µg/m ³)	X ^E (µg/m ³)	MTBE (µg/m ³)	TBA (µg/m ³)	ETBE TAME DIPE (µg/m ³)	2-Propanol (µg/m ³)	Propane (µg/m ³)	1,3,5-Trimethylbenzene (µg/m ³)	1,2,4-Trimethylbenzene (µg/m ³)	Propyl benzene (µg/m ³)	4-Ethyl toluene (µg/m ³)	Ethanol (µg/m ³)	Tetrahydrofuran (µg/m ³)	Tetrachloroethene (µg/m ³)	Methylene Chloride (µg/m ³)	Hexane (µg/m ³)	Cyclohexane (µg/m ³)	Cumene (µg/m ³)	Acetone (µg/m ³)	Chloroform (µg/m ³)	Freon 11 (µg/m ³)	Freon 12 (µg/m ³)	Freon 113 (µg/m ³)	Source Lab Rpt #		
Unit of Measurement			(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)			
Low-Threat Soil Gas Criteria - Bioattenuation			NE	32	NE	NE	NE	36	140,000	420	320,000	4000	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	180	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE		
CHHSLs, Commercial ^A			10,000	72	NE	NE	10,000	84	63,000	980	21,000	9,400	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	5,200	NE	NE	NE	NE	NE	660,000	460	NE	NE	NE	
ESLs, Lowest Residential ^A																																			
V2.2 Suma Duplicate	11/15/2006	TO-15	--	--	--	--	41	43	<7.9	28.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
V2.4 Suma Duplicate	11/15/2006	TO-15	--	--	--	--	<21	<28	<24	<28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
V1.4 4L Duplicate	11/15/2006	TO-17	>150,000 ^F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
V1.4 4L Duplicate	11/15/2006	NIOSH 1550	580,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
V2.2 1L Duplicate	11/15/2006	NIOSH 1550	600,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
V2.2 1L Duplicate	11/15/2006	NIOSH 1550	710,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
V2.4 1L Duplicate	11/15/2006	NIOSH 1550	180,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
V2.4 1L Duplicate	11/15/2006	NIOSH 1550	280,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
V2.4 1L Duplicate	11/15/2006	NIOSH 1550	700,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
V3.4 1L Duplicate	11/15/2006	NIOSH 1550	7,300,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
V3.4 4L Duplicate	11/15/2006	NIOSH 1550	570,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-1	06/17/2010	8260B/ 8015M ^C	<50,000	<100	--	--	<10,000	<100	<200	<100	<200	<100	<1,000	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-1	11/04/2010	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	<240	<3.8	<4.5	<5.1	<4.3	<14	<20 ^D	<12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-1	04/01/2011	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	540	<3.7	<4.4	<5.0	<5.0	<4.2	<14	<19 ^D	<11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-1	12/09/2011	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	<160	<2.5	<2.9	<3.4	<3.4	<2.8	<9.4	<13	<7.6	--	<3.8	<3.8	<3.8	<3.8	<5.8	<2.3	<5.2	<27	<2.7	<2.7	<3.8	<18	<3.8	<4.4	<3.8	<5.9			
SS-2	06/17/2010	8260B/ 8015M ^C	<50,000	<100	--	--	<10,000	<100	<200	<100	<200	<100	<1,000	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-2	11/04/2010	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	<240	<3.8	<4.5	<5.2	5.3	<4.3	<14	<20 ^D	<12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-2	04/01/2011	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	530	<3.7	<4.4	<5.0	<5.0	<4.2	<14	<19 ^D	<11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-2	12/09/2011	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	<160	<2.5	<3.0	<3.4	<3.4	<2.8	<9.6	<13	<7.8	--	<3.9	<3.9	<3.9	<3.9	<6.0	<2.3	<5.4	<27	<2.8	<2.7	<3.9	19	5.5	<4.4	<3.9	<6.0			
SS-3	06/17/2010	8260B/ 8015M ^C	<50,000	<100	--	--	37,000	<100	2,600	2,000	6,050	<100	<1,000	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-3 Duplicate	06/17/2010	8260B/ 8015M ^C	<50,000	<100	--	--	30,000	<100	2,100	1,600	4,990	<100	<1,000	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-3	11/04/2010	TO-17/TO-15 ^B	5,800	8.0	24	36	13,000	<8.2	60	560	2,940	<9.2	<31	<43 ^D	<25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-3	11/04/2010	Modified ASTM D-1945	--	--	--	--	--	--	--	--	--	--	--	--	<0.0051%	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-3	04/01/2011	TO-17/TO-15 ^B	8,200	4.2	7.0	<2.5	8,600	3.8	16	110	650	<3.8	<13	<18 ^D	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-3	12/08/2011	TO-17/TO-15 ^B	<5,000	3.7	8.0	<2.5	11,000	<2.5	3.8	19	119	<2.8	<9.6	<13	<7.8	--	8.3	13	<3.9	16	10	2.4	<5.4	67	3.1	160	3.9	270	<3.8	<4.4	<3.9	<6.0			
SS-3	12/08/2011	Modified ASTM D-1945	--	--	--	--	--	--	--	--	--	--	--	--	<0.0016%	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-4	06/17/2010	8260B/ 8015M ^C	<50,000	<100	--	--	<10,000	<100	<200	<100	<200	<100	<1,000	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-4	11/04/2010	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	<240	<3.8	<4.5	<5.2	<5.2	<4.3	<14	<20 ^D	<12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-4	04/01/2011	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	520	<3.7	<4.4	<5.0	<5.0	<4.2	<14	<19 ^D	<11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-4	12/08/2011	TO-17/TO-15 ^B	9,500 ^G	<2.5	<2.5	<2.5	<160	<2.5	<2.9	<3.4	<3.4	<2.8	<9.4	<13	<7.6	--	<3.8	<3.8	<3.8	<3.8	<5.8	2.5	130	<27	<2.7	<2.7	<3.8	<18	<3.8	<4.4	<3.8	<5.9			
SS-5	06/17/2010	8260B/ 8015M ^C	<50,000	<100	--	--	<10,000	<100	<200	<100	<200	<100	<1,000	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-5	11/04/2010	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	<260	<4.0	<4.7	<5.5	<4.5	<15	<21 ^D	<12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-5 (IPA)	11/04/2010	Modified TO-15 GC/MS	--	--	--	--	--	--	--	--	--	--	--	--	81,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-5	04/01/2011	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	880	<3.7	8.2	<5.0	<5.0	<4.2	<14	<19 ^D	<11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS-5	12/08/2011	TO-15	<5,000	<2.5	<2.5	<2.5	<160	<2.5	<2.9	<3.4	<3.4	<2.8	<9.4	<13	<7.6	--	<3.8	<3.8	<3.8	<3.8	<5.8	<2.3	240	<27	<2.7	<2.7	<3.8	<18							

TABLE 1
Soil Vapor Sample Analytical Results - Results Compared to Low-Threat UST Case Closure Policy Thresholds With No Bioattenuation Zone^d
P & D 23rd Avenue Associates LLC
1125 Miller Avenue, Oakland, CA
Clearwater Project No. CB018H

Sample ID	Sampling Date	Analytical Method	TPH-d	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	TPH-g	B	T	E	X ^E	MTBE	TBA	ETBE TAME DIPE	2-Propanol	Propane	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Propylbenzene	4-Ethyltoluene	Ethanol	Tetrahydrofuran	Tetrachloroethene	Methylene Chloride	Hexane	Cyclohexane	Cumene	Acetone	Chloroform	Freon 11	Freon 12	Freon 113	Source Lab Rpt #	
Unit of Measurement			(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)		
Low-Threat Soil Gas Criteria - Bioattenuation				93,000				85,000	1,100,000																									
CHHSLs, Commercial			NE	32	NE	NE	NE	36	140,000	420	320,000	4000	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	180	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	
ESLs, Lowest Residential ^A			10,000	72	NE	NE	10,000	84	63,000	980	21,000	9,400	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	5,200	NE	NE	NE	NE	660,000	460	NE	NE	NE	
NIOSH 1550	Alternative analytical method used for saturated sorbent tubes using chemical extraction (carbon disulfide) and analyzed using gas chromatography/ flame ionization																																	
ASTM D-1945	Sample analyzed using modified ASTM D-1945																																	
TPH-d	Total petroleum hydrocarbons detected within the diesel range of C10-C28																																	
TPH-g	Total petroleum hydrocarbons detected within the gasoline range of C6-C12																																	
B	Benzene																																	
T	Toluene																																	
E	Ethylbenzene																																	
X	Total Xylenes																																	
MTBE	Methyl-t-butyl ether																																	
ETBE	Ethyl-t-butyl ether																																	
TAME	Tert-amyl methyl ether																																	
DIPE	Diisopropyl ether																																	
TBA	tert-Butanol																																	
2-Propanol	2-Propanol is also known as Isopropyl alcohol (IPA)																																	
--	Not Analyzed																																	
<#	Contamination in the sample was below method reporting limits.																																	
bold	Contamination in the sample exceeded environmental screening limits.																																	
NE	Standard Not Established																																	
(ID)	Identification																																	
CHHSL	California Human Health Screening Level																																	
Footnote A	Environmental Screening Levels (ESLs), Lowest Residential, from <i>Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Revised by May 2008</i> . Table E-2 Shallow																																	
Footnote B	TPH-d, Naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene by Modified TO-17 VI; TPH-g, B, T, E, X, MTBE, TBA, ETBE, TAME, DIPE by Modified TO-15.																																	
Footnote C	BTEX, Naphthalene, Oxygenates and TPH-g by EPA method 8260B; TPH-d by EPA method 8015m																																	
Footnote D	Analyte is listed as isopropyl ether, not diisopropyl ether.																																	
Footnote E	Xylene is reported as the sum of m,p-Xylene and o-Xylene																																	
Footnote F	Laboratory notes: TPH gasoline was detected at a concentration less than 5 times the reporting limit. Because the preceding sample contained high concentration of TPH-g, the result for TPH-g in this sample may be biased high for possible carry-over. A re-analysis of this sample was not possible due to insufficient sample volume.																																	
Footnote G	Laboratory Notes: The TPH pattern did not resemble that of diesel fuel. The hydrocarbons were distributed in the lighter carbon range of diesel.																																	
Footnote H	Laboratory Notes: Dilution was performed on this sample due to the presence of high level target species.																																	
Footnote I	CHHSLs - <i>California Human Health Screening Levels, Revised September 2010</i> . Table 3 Soil Gas Screening Numbers for Volatile Chemicals Below Buildings Constructed Without Engineered Fill																																	
Footnote J	Bio-attenuation zone as defined by the Water Control Policy for the Low-Threat Underground Storage Tank Closure .																																	
V2.2 Summa	Vapor sample collected at 2 feet below ground surface using 6-liter Summa canister at a flow rate of 200 mL per minute for 30 minutes.																																	
V2.4 Summa	Vapor sample collected at 4 feet below ground surface using 6-liter Summa canister at a flow rate of 200 mL per minute for 30 minutes.																																	
V1.4 1L	Vapor sample collected at 4 feet below ground surface using TO-17 Carbotrap 300 tube at a flow rate of 66.7 mL per minute for 15 minutes. Sample was analyzed using modified EPA method TO-17.																																	
V1.4 4L	Vapor sample collected at 4 feet below ground surface using TO-17 Carbotrap 300 tube at a flow rate of 133.3 mL per minute for 30 minutes.																																	
> ## (S)	Sample results are flagged as greater than saturated peak for analyte.																																	
1L	Sample flow rate equal to 66.7 milliliters per minute for 15 minutes.																																	
4L	Sample flow rate equal to 133.3 milliliters per minute for 30 minutes.																																	