Detterman, Mark, Env. Health

From: Sami Malaeb [s.malaeb@comcast.net]
Sent: Sunday, January 18, 2015 11:42 AM
To: Detterman, Mark, Env. Health
Subject: RE: 2145 35th Ave, Oakland (Chevron 9-8861; RO2945)
Attachments: Summary of Soil Gas Sampling Results (SG1, SG2, and SG3).pdf; Figure 2 Locations of Drilled and Proposed Soil Gas Sampling Locations (Jan 15).pdf; TO 3 1501029B_d.pdf; TO 17 1501007_d.pdf; TO-15 GC MS 1501029A_d.pdf; ASTM 1946 1501029C_d.pdf

Hi Mark:

I obtained the soil gas lab results for the subject site late Friday. I summarized the results In the attached table. Also, I attached a copy of the lab results and a figure. Based on these analytical findings, we conclude the following:

1. Naphthalene was not detected and confirmed by TO-17 to be well below the risk level of 93 $\mu g/m^3$ in all three locations.
2. Both Benzene and Ethylbenzene exceeded the risk levels of 85 $\mu g/m^3$ and 1,100 $\mu g/m^3$ respectively in SG-3 near the south corner of the site.
3. No exceedances in SG-1 and SG-2, except, I need to talk to the lab to see if they can find out whether the detection of benzene could be proved to be <85 $\mu g/m^3$.
4. No 2-propanol (Trace compound) was detected so the manifold and probes were tight.

At this point I suggest collecting one more soil gas sample near the wall of the Apartment building (SG-4). Please see the attached figure. I plan to analyze the sample only for:

Benzene and Ethylbenzene, and Isobutyl Alcohol (the trace compound) by TO-15 and for the atmospheric compounds by ASTM Method D-1946 (Oxygen, Nitrogen, Methane, and Carbon Dioxide).

I will call you on Monday to discuss this email.

Thanks,

Sami Malaeb, P.E., QSP/QSD
TEL: (925) 858-9608
Email: s.malaeb@comcast.net

From: Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]
Sent: Wednesday, January 14, 2015 11:14 AM
To: 'Sami Malaeb'
Subject: RE: 2145 35th Ave, Oakland (Chevron 9-8861; RO2945)

Sami,
Thanks for the update on the site. The extension request appears appropriate. Please use this email to document ACEH concurrence; however, to minimize costs, I have kept the two reports as originally requested as a single report submittal with a March 16 date. If you think it warranted, please keep me advised as to the vapor results prior to report submittal.
Best,

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Sami Malaeb [mailto:s.malaeb@comcast.net]
Sent: Wednesday, January 14, 2015 10:59 AM
To: Detterman, Mark, Env. Health
Subject: RE: 2145 35th Ave, Oakland (Chevron 9-8861; RO2945)

Hi Mark:

I am writing this email to request further extension of time to submit the soil gas sampling and interim remedial action reports for the subject site. Due to the rainy weather in December 2014 and encountering wet soil, we were not able to conduct the soil gas survey until first week of January 2015. We expect the lab results for the soil gas sampling by no later than 21st of this month. We expect to complete the interim remedial action (shallow soil excavation and disposal for lead impacted areas) by mid February or earlier.

We request to extend the time for the report submittal as follows:

Soil gas sampling report by February 27, 2015.

Interim Remedial Action Report by March 17, 2015.

Your help and cooperation are greatly appreciated.

Thanks,

Sami Malaeb, P.E., QSP/QSD
TEL: (925) 858-9608
Email: s.malaeb@comcast.net

From: Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]
Sent: Wednesday, November 05, 2014 9:43 AM
To: 'Sami Malaeb'
Subject: RE: 2145 35th Ave, Oakland (Chevron 9-8861; RO2945)

Hi Sami,
I have been wondering about the status of this site; thanks for confirming my suspicion. Please use this email to document ACEH concurrence with the requested submittal extension. I have updated Geotracker with a January 23, 2015 submittal date.

Mark Detterman

Table: Summary of Soil Gas Sampling Results for Samples Collected on January 02, 2015

Sample ID	Benzene ($\mu g/m^3$)	Ethylbenzene ($\mu g/m^3$)	Naphthalene ($\mu g/m^3$)	Oxygen %
SG-1	ND<390	ND<520	<5.0 *	1.8
SG-2	ND<3.9	ND<5.2	<5.0 *	12
SG-3	5,700	11,000	<5.0 *	1.9
Low Threat UST Closure Risk Levels**	<85	<1,100	<93	<4%

*Confirmed by TO-17

**Appendix 4 (Page 1of 2)

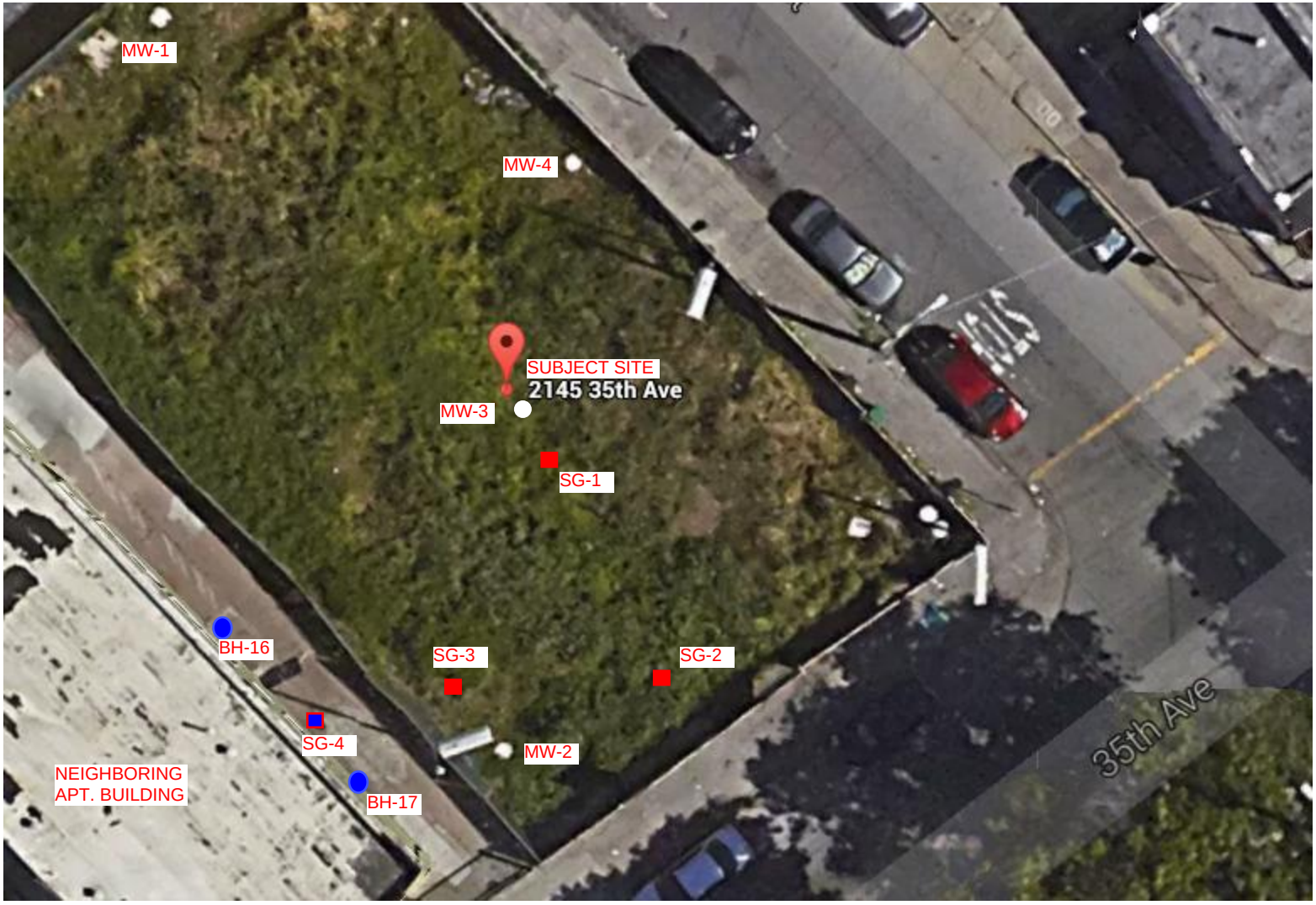

Figure 3 – Approximate Locations of Drilled and Proposed Soil Gas Sampling Locations

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1/16/2015
Mr. Ross Tinline
SVC Environmental, Inc.
11 Kenton Ave

San Carlos CA 94070

Project Name: Salisbury
Project #:
Workorder #: 1501029B

Dear Mr. Ross Tinline

The following report includes the data for the above referenced project for sample(s) received on 1/5/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 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

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WORK ORDER #: 1501029B

Work Order Summary

CLIENT:	Mr. Ross Tinline SVC Environmental, Inc. 11 Kenton Ave San Carlos, CA 94070	**BILL TO:**	Mr. Ross Tinline SVC Environmental, Inc. 11 Kenton Ave San Carlos, CA 94070
PHONE:	650-218-3766	**P.O. #**	2145 35th Avenue Oakland
FAX:		**PROJECT #**	Salisbury
DATE RECEIVED:	01/05/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	01/16/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SG-3	Modified TO-3	5.0 "Hg	15 psi
02A	SG-2	Modified TO-3	4.5 "Hg	15.5 psi
03A	SG-1	Modified TO-3	5.0 "Hg	15 psi
04A	SG-1R	Modified TO-3	5.0 "Hg	15 psi
05A	Lab Blank	Modified TO-3	NA	NA
06A	LCS	Modified TO-3	NA	NA
06AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 01/16/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

LABORATORY NARRATIVE
Modified TO-3
SVC Environmental, Inc.
Workorder# 1501029B

Four 1 Liter Summa Canister samples were received on January 05, 2015. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

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

Requirement	***TO-3***	***ATL Modifications***
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

According to the Chain of Custody (COC), samples SG-3, SG-2, SG-1 and SG-1R were collected on 1/2/14. However, the date on the sample tags for SG-3 and SG-2 reflects a collection date of 1/2/15. Therefore the date on the sample tags was used to calculate the sample holding time.

Analytical Notes

The recovery of surrogate Fluorobenzene in samples SG-3, SG-1 and SG-1R was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: SG-3

Lab ID#: 1501029B-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	24	99	14000	55000

Client Sample ID: SG-2

Lab ID#: 1501029B-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.060	0.25	1.1	4.6

Client Sample ID: SG-1

Lab ID#: 1501029B-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.48	2.0	330	1300

Client Sample ID: SG-1R

Lab ID#: 1501029B-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.48	2.0	360	1500

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Client Sample ID: SG-3

Lab ID#: 1501029B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d011316**	**Date of Collection: 1/2/15 11:23:00 AM**	
Dil. Factor:	**968**	**Date of Analysis: 1/13/15 07:53 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	24	99	14000	55000

Q = Exceeds Quality Control limits, due to matrix effects. Matrix effects confirmed by re-analysis.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	155 Q	75-150

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Client Sample ID: SG-2

Lab ID#: 1501029B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d011312**	**Date of Collection: 1/2/15 12:09:00 PM**	
Dil. Factor:	**2.42**	**Date of Analysis: 1/13/15 04:18 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.060	0.25	1.1	4.6

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	98	75-150

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Client Sample ID: SG-1

Lab ID#: 1501029B-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d011313**	**Date of Collection: 1/2/15 1:05:00 PM**	
Dil. Factor:	**19.4**	**Date of Analysis: 1/13/15 05:09 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.48	2.0	330	1300

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	159 Q	75-150

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Client Sample ID: SG-1R

Lab ID#: 1501029B-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d011314**	**Date of Collection: 1/2/15 1:18:00 PM**	
Dil. Factor:	**19.4**	**Date of Analysis: 1/13/15 05:55 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.48	2.0	360	1500

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	174 Q	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1501029B-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d011303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/13/15 09:24 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	95	75-150

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Client Sample ID: LCS

Lab ID#: 1501029B-06A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d011302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/13/15 08:28 AM**	

Compound	%Recovery	Method Limits
TPH (Gasoline Range)	82	75-125

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	112	75-150

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Client Sample ID: LCSD

Lab ID#: 1501029B-06AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d011317**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/13/15 08:58 PM**	

Compound	%Recovery	Method Limits
TPH (Gasoline Range)	94	75-125

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	92	75-150

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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

Project Manager Ross Tyline
Collected by: (Print and Sign) Ross Tyline
Company SVC Environmental Email rosst@svcenv.com
Address 11 Kenton Ave City San Carlos State CA Zip 94070
Phone 650 210 3766 Fax

Project Info:
2145 35th Avenue
P.O. # Oakland
Project # ____
Project Name Salisbury

Turn Around Time:
☑ Normal
☐ Rush
_____ specify

Lab Use Only
Pressurized by
Date
Pressurization Gas: N2 He

FC-15

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Dup	
01A	SG-3	36518	1-2-14	1115-1123	TO15 for VOCs including naphthalene	-29.99	-9.77			399
02A	SG-2	33735	1-2-14	1203-1209		-27.91	-4.90			763
03A	SG-1	36383	1-2-14	1258-1305	TO3 for TPHg	-29.71	-5.88			657
04A	SG-1R	37317	1-2-14	1311-1318	ASTM D1946 for Oxygen, Nitrogen, CO_2 and Methane	-28.75	-5.05			657

Relinquished by: (signature) Date/Time 1630 1-2-14
Relinquished by: (signature) Date/Time
Relinquished by: (signature) Date/Time

Received by: (signature) Date/Time 1630
FedEx 1-2-14
Received by: (signature) Date/Time
Received by: (signature) Date/Time

Notes:
Global ID
T0619778840

Lab Use Only: Shipper Name FedEx | Air Bill # | Temp (°C) NA | Condition Good | Custody Seals Intact? Yes No (None) | Work Order # 15 1023

Form 1253 rev.11

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1/14/2015
Mr. Ross Tinline
SVC Environmental, Inc.
11 Kenton Ave

San Carlos CA 94070

Project Name: Salisbury
Project #:
Workorder #: 1501029A

Dear Mr. Ross Tinline

The following report includes the data for the above referenced project for sample(s) received on 1/5/2015 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 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

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WORK ORDER #: 1501029A

Work Order Summary

CLIENT:	Mr. Ross Tinline SVC Environmental, Inc. 11 Kenton Ave San Carlos, CA 94070	**BILL TO:**	Mr. Ross Tinline SVC Environmental, Inc. 11 Kenton Ave San Carlos, CA 94070
PHONE:	650-218-3766	**P.O. #**	2145 35th Avenue Oakland
FAX:		**PROJECT #**	Salisbury
DATE RECEIVED:	01/05/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	01/14/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SG-3	TO-15	5.0 "Hgn	15 psi
02A	SG-2	TO-15	4.5 "Hg	15.5psi
03A	SG-1	TO-15	5.0 "Hg	15 psi
04A	SG-1R	TO-15	5.0 "Hg	15 psi
05A	Lab Blank	TO-15	NA	NA
05B	Lab Blank	TO-15	NA	NA
06A	CCV	TO-15	NA	NA
06B	CCV	TO-15	NA	NA
07A	LCS	TO-15	NA	NA
07AA	LCSD	TO-15	NA	NA
07B	LCS	TO-15	NA	NA
07BB	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Rayos DATE: 01/14/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 956
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
SVC Environmental, Inc.
Workorder# 1501029A

Four 1 Liter Summa Canister samples were received on January 05, 2015. 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

According to the Chain of Custody (COC), samples SG-3, SG-2, SG-1 and SG-1R were collected on 1/2/14. However, the date on the sample tags for SG-3 and SG-2 reflects a collection date of 1/2/15. Therefore the date on the sample tags was used to calculate the sample holding time.

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.

Dilution was performed on samples SG-3, SG-1, and SG-1R due to the presence of high level target species.

Due to the linear calibration range of the instrument, the reporting limit for 1,2,4-Trichlorobenzene and Hexachlorobutadiene on instrument MSD-14 was raised from 20 ppbv to 50 ppbv.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

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, LOD, or MDL value. See data page for project specific U-flag definition.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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

Client Sample ID: SG-3

Lab ID#: 1501029A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1200	18000	4300	63000
Cyclohexane	1200	12000	4200	43000
2,2,4-Trimethylpentane	1200	2300000 E	5600	11000000 E
Benzene	1200	1800	3900	5700
Heptane	1200	25000	5000	100000
Ethyl Benzene	1200	2500	5200	11000
TPH ref. to Gasoline (MW=100)	48000	7800000	200000	32000000

Client Sample ID: SG-2

Lab ID#: 1501029A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1.2	1.5	4.3	5.1
2,2,4-Trimethylpentane	1.2	190	5.6	880
Heptane	1.2	2.2	5.0	8.8
TPH ref. to Gasoline (MW=100)	120	940	490	3800

Client Sample ID: SG-1

Lab ID#: 1501029A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	120	1000	430	3600
Cyclohexane	120	650	420	2200
2,2,4-Trimethylpentane	120	50000	560	230000
Heptane	120	1100	500	4500
TPH ref. to Gasoline (MW=100)	4800	170000	20000	690000

Client Sample ID: SG-1R

Lab ID#: 1501029A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	120	1100	430	4000

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

Client Sample ID: SG-1R

Lab ID#: 1501029A-04A

Cyclohexane	120	740	420	2500
2,2,4-Trimethylpentane	120	57000	560	270000
Heptane	120	1400	500	5900
TPH ref. to Gasoline (MW=100)	4800	200000	20000	810000

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Client Sample ID: SG-3

Lab ID#: 1501029A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14010822**	**Date of Collection:**	**1/2/15 11:23:00 AM**
Dil. Factor:	**242**	**Date of Analysis:**	**1/8/15 08:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1200	Not Detected	6000	Not Detected
Freon 114	1200	Not Detected	8400	Not Detected
Chloromethane	4800	Not Detected	10000	Not Detected
Vinyl Chloride	1200	Not Detected	3100	Not Detected
1,3-Butadiene	1200	Not Detected	2700	Not Detected
Bromomethane	1200	Not Detected	4700	Not Detected
Chloroethane	4800	Not Detected	13000	Not Detected
Freon 11	1200	Not Detected	6800	Not Detected
Ethanol	4800	Not Detected	9100	Not Detected
Freon 113	1200	Not Detected	9300	Not Detected
1,1-Dichloroethene	1200	Not Detected	4800	Not Detected
Acetone	4800	Not Detected	11000	Not Detected
2-Propanol	4800	Not Detected	12000	Not Detected
Carbon Disulfide	1200	Not Detected	3800	Not Detected
3-Chloropropene	4800	Not Detected	15000	Not Detected
Methylene Chloride	1200	Not Detected	4200	Not Detected
Methyl tert-butyl ether	1200	Not Detected	4400	Not Detected
trans-1,2-Dichloroethene	1200	Not Detected	4800	Not Detected
Hexane	1200	18000	4300	63000
1,1-Dichloroethane	1200	Not Detected	4900	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4800	Not Detected	14000	Not Detected
cis-1,2-Dichloroethene	1200	Not Detected	4800	Not Detected
Tetrahydrofuran	1200	Not Detected	3600	Not Detected
Chloroform	1200	Not Detected	5900	Not Detected
1,1,1-Trichloroethane	1200	Not Detected	6600	Not Detected
Cyclohexane	1200	12000	4200	43000
Carbon Tetrachloride	1200	Not Detected	7600	Not Detected
2,2,4-Trimethylpentane	1200	2300000 E	5600	11000000 E
Benzene	1200	1800	3900	5700
1,2-Dichloroethane	1200	Not Detected	4900	Not Detected
Heptane	1200	25000	5000	100000
Trichloroethene	1200	Not Detected	6500	Not Detected
1,2-Dichloropropane	1200	Not Detected	5600	Not Detected
1,4-Dioxane	4800	Not Detected	17000	Not Detected
Bromodichloromethane	1200	Not Detected	8100	Not Detected
cis-1,3-Dichloropropene	1200	Not Detected	5500	Not Detected
4-Methyl-2-pentanone	1200	Not Detected	5000	Not Detected
Toluene	1200	Not Detected	4600	Not Detected
trans-1,3-Dichloropropene	1200	Not Detected	5500	Not Detected
1,1,2-Trichloroethane	1200	Not Detected	6600	Not Detected
Tetrachloroethene	1200	Not Detected	8200	Not Detected
2-Hexanone	4800	Not Detected	20000	Not Detected

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Client Sample ID: SG-3

Lab ID#: 1501029A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14010822**	**Date of Collection: 1/2/15 11:23:00 AM**	
Dil. Factor:	**242**	**Date of Analysis: 1/8/15 08:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1200	Not Detected	10000	Not Detected
1,2-Dibromoethane (EDB)	1200	Not Detected	9300	Not Detected
Chlorobenzene	1200	Not Detected	5600	Not Detected
Ethyl Benzene	1200	2500	5200	11000
m,p-Xylene	1200	Not Detected	5200	Not Detected
o-Xylene	1200	Not Detected	5200	Not Detected
Styrene	1200	Not Detected	5200	Not Detected
Bromoform	1200	Not Detected	12000	Not Detected
Cumene	1200	Not Detected	5900	Not Detected
1,1,2,2-Tetrachloroethane	1200	Not Detected	8300	Not Detected
Propylbenzene	1200	Not Detected	5900	Not Detected
4-Ethyltoluene	1200	Not Detected	5900	Not Detected
1,3,5-Trimethylbenzene	1200	Not Detected	5900	Not Detected
1,2,4-Trimethylbenzene	1200	Not Detected	5900	Not Detected
1,3-Dichlorobenzene	1200	Not Detected	7300	Not Detected
1,4-Dichlorobenzene	1200	Not Detected	7300	Not Detected
alpha-Chlorotoluene	1200	Not Detected	6300	Not Detected
1,2-Dichlorobenzene	1200	Not Detected	7300	Not Detected
1,2,4-Trichlorobenzene	12000	Not Detected	90000	Not Detected
Hexachlorobutadiene	12000	Not Detected	130000	Not Detected
Naphthalene	4800	Not Detected	25000	Not Detected
TPH ref. to Gasoline (MW=100)	48000	7800000	200000	32000000

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

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Client Sample ID: SG-2

Lab ID#: 1501029A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j010816**	**Date of Collection: 1/2/15 12:09:00 PM**	
Dil. Factor:	**2.42**	**Date of Analysis: 1/8/15 07:35 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Ethanol	4.8	Not Detected	9.1	Not Detected
Freon 113	1.2	Not Detected	9.3	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	1.5	4.3	5.1
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	190	5.6	880
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Heptane	1.2	2.2	5.0	8.8
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
2-Hexanone	4.8	Not Detected	20	Not Detected

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Client Sample ID: SG-2

Lab ID#: 1501029A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j010816**	**Date of Collection: 1/2/15 12:09:00 PM**	
Dil. Factor:	**2.42**	**Date of Analysis: 1/8/15 07:35 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected
Naphthalene	4.8	Not Detected	25	Not Detected
TPH ref. to Gasoline (MW=100)	120	940	490	3800

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SG-1

Lab ID#: 1501029A-03A

EPA METHOD TO-15 GC/MS

File Name:	**14010823**	**Date of Collection: 1/2/15 1:05:00 PM**	
Dil. Factor:	**24.2**	**Date of Analysis: 1/8/15 08:41 PM**	

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	480	Not Detected	1300	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	1000	430	3600
1,1-Dichloroethane	120	Not Detected	490	Not Detected
2-Butanone (Methyl Ethyl Ketone)	480	Not Detected	1400	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	650	420	2200
Carbon Tetrachloride	120	Not Detected	760	Not Detected
2,2,4-Trimethylpentane	120	50000	560	230000
Benzene	120	Not Detected	390	Not Detected
1,2-Dichloroethane	120	Not Detected	490	Not Detected
Heptane	120	1100	500	4500
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
1,1,2-Trichloroethane	120	Not Detected	660	Not Detected
Tetrachloroethene	120	Not Detected	820	Not Detected
2-Hexanone	480	Not Detected	2000	Not Detected

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Client Sample ID: SG-1

Lab ID#: 1501029A-03A

EPA METHOD TO-15 GC/MS

File Name:	**14010823**	**Date of Collection: 1/2/15 1:05:00 PM**	
Dil. Factor:	**24.2**	**Date of Analysis: 1/8/15 08:41 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
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	1200	Not Detected	9000	Not Detected
Hexachlorobutadiene	1200	Not Detected	13000	Not Detected
Naphthalene	480	Not Detected	2500	Not Detected
TPH ref. to Gasoline (MW=100)	4800	170000	20000	690000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	88	70-130

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Client Sample ID: SG-1R

Lab ID#: 1501029A-04A

EPA METHOD TO-15 GC/MS

File Name:	**14010824**	**Date of Collection: 1/2/15 1:18:00 PM**	
Dil. Factor:	**24.2**	**Date of Analysis: 1/8/15 09:06 PM**	

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	480	Not Detected	1300	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	1100	430	4000
1,1-Dichloroethane	120	Not Detected	490	Not Detected
2-Butanone (Methyl Ethyl Ketone)	480	Not Detected	1400	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	740	420	2500
Carbon Tetrachloride	120	Not Detected	760	Not Detected
2,2,4-Trimethylpentane	120	57000	560	270000
Benzene	120	Not Detected	390	Not Detected
1,2-Dichloroethane	120	Not Detected	490	Not Detected
Heptane	120	1400	500	5900
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
1,1,2-Trichloroethane	120	Not Detected	660	Not Detected
Tetrachloroethene	120	Not Detected	820	Not Detected
2-Hexanone	480	Not Detected	2000	Not Detected

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Client Sample ID: SG-1R

Lab ID#: 1501029A-04A

EPA METHOD TO-15 GC/MS

File Name:	**14010824**	**Date of Collection: 1/2/15 1:18:00 PM**	
Dil. Factor:	**24.2**	**Date of Analysis: 1/8/15 09:06 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
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	1200	Not Detected	9000	Not Detected
Hexachlorobutadiene	1200	Not Detected	13000	Not Detected
Naphthalene	480	Not Detected	2500	Not Detected
TPH ref. to Gasoline (MW=100)	4800	200000	20000	810000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	88	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1501029A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j010808**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 02:15 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
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	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
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	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	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)	2.0	Not Detected	5.9	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
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

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Client Sample ID: Lab Blank

Lab ID#: 1501029A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j010808**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 02:15 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
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
Naphthalene	2.0	Not Detected	10	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1501029A-05B

EPA METHOD TO-15 GC/MS

File Name:	**14010809**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 01:06 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1501029A-05B

EPA METHOD TO-15 GC/MS

File Name:	**14010809**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 01:06 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	50	Not Detected	370	Not Detected
Hexachlorobutadiene	50	Not Detected	530	Not Detected
Naphthalene	20	Not Detected	100	Not Detected
TPH ref. to Gasoline (MW=100)	200	Not Detected	820	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	90	70-130

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Client Sample ID: CCV

Lab ID#: 1501029A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j010802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 10:40 AM**	

Compound	%Recovery
Freon 12	95
Freon 114	97
Chloromethane	96
Vinyl Chloride	110
1,3-Butadiene	106
Bromomethane	99
Chloroethane	107
Freon 11	101
Ethanol	106
Freon 113	93
1,1-Dichloroethene	105
Acetone	101
2-Propanol	108
Carbon Disulfide	104
3-Chloropropene	108
Methylene Chloride	105
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	93
Hexane	101
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	89
Tetrahydrofuran	109
Chloroform	100
1,1,1-Trichloroethane	97
Cyclohexane	100
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	100
Benzene	92
1,2-Dichloroethane	92
Heptane	90
Trichloroethene	114
1,2-Dichloropropane	87
1,4-Dioxane	104
Bromodichloromethane	87
cis-1,3-Dichloropropene	85
4-Methyl-2-pentanone	88
Toluene	80
trans-1,3-Dichloropropene	86
1,1,2-Trichloroethane	88
Tetrachloroethene	88
2-Hexanone	108

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Client Sample ID: CCV

Lab ID#: 1501029A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j010802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 10:40 AM**	

Compound	%Recovery
Dibromochloromethane	87
1,2-Dibromoethane (EDB)	92
Chlorobenzene	93
Ethyl Benzene	101
m,p-Xylene	100
o-Xylene	103
Styrene	110
Bromoform	97
Cumene	105
1,1,2,2-Tetrachloroethane	78
Propylbenzene	108
4-Ethyltoluene	112
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	117
1,3-Dichlorobenzene	113
1,4-Dichlorobenzene	114
alpha-Chlorotoluene	94
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	124
Naphthalene	118
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: CCV

Lab ID#: 1501029A-06B

EPA METHOD TO-15 GC/MS

File Name:	**14010805**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 11:12 AM**

Compound	%Recovery
Freon 12	103
Freon 114	93
Chloromethane	102
Vinyl Chloride	94
1,3-Butadiene	94
Bromomethane	81
Chloroethane	70
Freon 11	94
Ethanol	80
Freon 113	89
1,1-Dichloroethene	85
Acetone	82
2-Propanol	77
Carbon Disulfide	89
3-Chloropropene	94
Methylene Chloride	75
Methyl tert-butyl ether	71
trans-1,2-Dichloroethene	88
Hexane	86
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	89
Tetrahydrofuran	76
Chloroform	89
1,1,1-Trichloroethane	91
Cyclohexane	92
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	90
Benzene	86
1,2-Dichloroethane	94
Heptane	96
Trichloroethene	92
1,2-Dichloropropane	86
1,4-Dioxane	98
Bromodichloromethane	92
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	90
Toluene	94
trans-1,3-Dichloropropene	85
1,1,2-Trichloroethane	87
Tetrachloroethene	90
2-Hexanone	82

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Client Sample ID: CCV

Lab ID#: 1501029A-06B

EPA METHOD TO-15 GC/MS

File Name:	**14010805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 11:12 AM**	

Compound	%Recovery
Dibromochloromethane	93
1,2-Dibromoethane (EDB)	92
Chlorobenzene	93
Ethyl Benzene	96
m,p-Xylene	100
o-Xylene	95
Styrene	95
Bromoform	84
Cumene	100
1,1,2,2-Tetrachloroethane	93
Propylbenzene	101
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	90
Hexachlorobutadiene	103
Naphthalene	99
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: LCS

Lab ID#: 1501029A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j010803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 11:07 AM**	

Compound	%Recovery	Method Limits
Freon 12	90	70-130
Freon 114	88	70-130
Chloromethane	87	70-130
Vinyl Chloride	101	70-130
1,3-Butadiene	92	70-130
Bromomethane	90	70-130
Chloroethane	95	70-130
Freon 11	90	70-130
Ethanol	107	70-130
Freon 113	88	70-130
1,1-Dichloroethene	97	70-130
Acetone	88	70-130
2-Propanol	105	70-130
Carbon Disulfide	87	70-130
3-Chloropropene	95	70-130
Methylene Chloride	98	70-130
Methyl tert-butyl ether	90	70-130
trans-1,2-Dichloroethene	81	70-130
Hexane	90	70-130
1,1-Dichloroethane	89	70-130
2-Butanone (Methyl Ethyl Ketone)	91	70-130
cis-1,2-Dichloroethene	85	70-130
Tetrahydrofuran	100	70-130
Chloroform	92	70-130
1,1,1-Trichloroethane	88	70-130
Cyclohexane	90	70-130
Carbon Tetrachloride	92	70-130
2,2,4-Trimethylpentane	87	70-130
Benzene	90	70-130
1,2-Dichloroethane	96	70-130
Heptane	84	70-130
Trichloroethene	88	70-130
1,2-Dichloropropane	86	70-130
1,4-Dioxane	104	70-130
Bromodichloromethane	87	70-130
cis-1,3-Dichloropropene	90	70-130
4-Methyl-2-pentanone	86	70-130
Toluene	82	70-130
trans-1,3-Dichloropropene	81	70-130
1,1,2-Trichloroethane	82	70-130
Tetrachloroethene	84	70-130
2-Hexanone	104	70-130

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Client Sample ID: LCS

Lab ID#: 1501029A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j010803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 11:07 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	85	70-130
1,2-Dibromoethane (EDB)	90	70-130
Chlorobenzene	89	70-130
Ethyl Benzene	96	70-130
m,p-Xylene	98	70-130
o-Xylene	99	70-130
Styrene	111	70-130
Bromoform	96	70-130
Cumene	102	70-130
1,1,2,2-Tetrachloroethane	103	70-130
Propylbenzene	108	70-130
4-Ethyltoluene	108	70-130
1,3,5-Trimethylbenzene	115	70-130
1,2,4-Trimethylbenzene	120	70-130
1,3-Dichlorobenzene	110	70-130
1,4-Dichlorobenzene	109	70-130
alpha-Chlorotoluene	171 Q	70-130
1,2-Dichlorobenzene	110	70-130
1,2,4-Trichlorobenzene	137 Q	70-130
Hexachlorobutadiene	134 Q	70-130
Naphthalene	88	60-140
TPH ref. to Gasoline (MW=100)	Not Spiked	

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: LCSD

Lab ID#: 1501029A-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j010804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 11:34 AM**	

Compound	%Recovery	Method Limits
Freon 12	92	70-130
Freon 114	90	70-130
Chloromethane	88	70-130
Vinyl Chloride	103	70-130
1,3-Butadiene	96	70-130
Bromomethane	93	70-130
Chloroethane	91	70-130
Freon 11	92	70-130
Ethanol	109	70-130
Freon 113	90	70-130
1,1-Dichloroethene	102	70-130
Acetone	92	70-130
2-Propanol	105	70-130
Carbon Disulfide	91	70-130
3-Chloropropene	100	70-130
Methylene Chloride	97	70-130
Methyl tert-butyl ether	91	70-130
trans-1,2-Dichloroethene	83	70-130
Hexane	92	70-130
1,1-Dichloroethane	92	70-130
2-Butanone (Methyl Ethyl Ketone)	92	70-130
cis-1,2-Dichloroethene	88	70-130
Tetrahydrofuran	101	70-130
Chloroform	93	70-130
1,1,1-Trichloroethane	90	70-130
Cyclohexane	93	70-130
Carbon Tetrachloride	94	70-130
2,2,4-Trimethylpentane	90	70-130
Benzene	92	70-130
1,2-Dichloroethane	94	70-130
Heptane	84	70-130
Trichloroethene	89	70-130
1,2-Dichloropropane	90	70-130
1,4-Dioxane	107	70-130
Bromodichloromethane	88	70-130
cis-1,3-Dichloropropene	91	70-130
4-Methyl-2-pentanone	87	70-130
Toluene	80	70-130
trans-1,3-Dichloropropene	82	70-130
1,1,2-Trichloroethane	84	70-130
Tetrachloroethene	85	70-130
2-Hexanone	105	70-130

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Client Sample ID: LCSD

Lab ID#: 1501029A-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j010804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 11:34 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	84	70-130
1,2-Dibromoethane (EDB)	90	70-130
Chlorobenzene	90	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	102	70-130
o-Xylene	102	70-130
Styrene	112	70-130
Bromoform	96	70-130
Cumene	104	70-130
1,1,2,2-Tetrachloroethane	104	70-130
Propylbenzene	109	70-130
4-Ethyltoluene	109	70-130
1,3,5-Trimethylbenzene	124	70-130
1,2,4-Trimethylbenzene	121	70-130
1,3-Dichlorobenzene	111	70-130
1,4-Dichlorobenzene	112	70-130
alpha-Chlorotoluene	174 Q	70-130
1,2-Dichlorobenzene	110	70-130
1,2,4-Trichlorobenzene	134 Q	70-130
Hexachlorobutadiene	133 Q	70-130
Naphthalene	90	60-140
TPH ref. to Gasoline (MW=100)	Not Spiked	

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCS

Lab ID#: 1501029A-07B

EPA METHOD TO-15 GC/MS

File Name:	**14010806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 11:35 AM**	

Compound	%Recovery	Method Limits
Freon 12	113	70-130
Freon 114	102	70-130
Chloromethane	99	70-130
Vinyl Chloride	107	70-130
1,3-Butadiene	99	70-130
Bromomethane	98	70-130
Chloroethane	76	70-130
Freon 11	102	70-130
Ethanol	105	70-130
Freon 113	101	70-130
1,1-Dichloroethene	99	70-130
Acetone	94	70-130
2-Propanol	88	70-130
Carbon Disulfide	88	70-130
3-Chloropropene	102	70-130
Methylene Chloride	90	70-130
Methyl tert-butyl ether	80	70-130
trans-1,2-Dichloroethene	94	70-130
Hexane	92	70-130
1,1-Dichloroethane	92	70-130
2-Butanone (Methyl Ethyl Ketone)	100	70-130
cis-1,2-Dichloroethene	95	70-130
Tetrahydrofuran	85	70-130
Chloroform	98	70-130
1,1,1-Trichloroethane	98	70-130
Cyclohexane	98	70-130
Carbon Tetrachloride	105	70-130
2,2,4-Trimethylpentane	97	70-130
Benzene	93	70-130
1,2-Dichloroethane	97	70-130
Heptane	97	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	91	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	99	70-130
cis-1,3-Dichloropropene	96	70-130
4-Methyl-2-pentanone	96	70-130
Toluene	98	70-130
trans-1,3-Dichloropropene	89	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	94	70-130
2-Hexanone	92	70-130

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Client Sample ID: LCS

Lab ID#: 1501029A-07B

EPA METHOD TO-15 GC/MS

File Name:	**14010806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 11:35 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	99	70-130
1,2-Dibromoethane (EDB)	99	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	108	70-130
o-Xylene	101	70-130
Styrene	109	70-130
Bromoform	93	70-130
Cumene	108	70-130
1,1,2,2-Tetrachloroethane	97	70-130
Propylbenzene	107	70-130
4-Ethyltoluene	114	70-130
1,3,5-Trimethylbenzene	119	70-130
1,2,4-Trimethylbenzene	118	70-130
1,3-Dichlorobenzene	107	70-130
1,4-Dichlorobenzene	108	70-130
alpha-Chlorotoluene	170 Q	70-130
1,2-Dichlorobenzene	108	70-130
1,2,4-Trichlorobenzene	118	70-130
Hexachlorobutadiene	132 Q	70-130
Naphthalene	58 Q	60-140
TPH ref. to Gasoline (MW=100)	Not Spiked	

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: LCSD

Lab ID#: 1501029A-07BB

EPA METHOD TO-15 GC/MS

File Name:	**14010807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 12:14 PM**	

Compound	%Recovery	Method Limits
Freon 12	104	70-130
Freon 114	93	70-130
Chloromethane	91	70-130
Vinyl Chloride	97	70-130
1,3-Butadiene	92	70-130
Bromomethane	86	70-130
Chloroethane	69 Q	70-130
Freon 11	97	70-130
Ethanol	96	70-130
Freon 113	95	70-130
1,1-Dichloroethene	92	70-130
Acetone	86	70-130
2-Propanol	82	70-130
Carbon Disulfide	84	70-130
3-Chloropropene	99	70-130
Methylene Chloride	82	70-130
Methyl tert-butyl ether	77	70-130
trans-1,2-Dichloroethene	92	70-130
Hexane	82	70-130
1,1-Dichloroethane	91	70-130
2-Butanone (Methyl Ethyl Ketone)	92	70-130
cis-1,2-Dichloroethene	89	70-130
Tetrahydrofuran	79	70-130
Chloroform	92	70-130
1,1,1-Trichloroethane	92	70-130
Cyclohexane	92	70-130
Carbon Tetrachloride	102	70-130
2,2,4-Trimethylpentane	92	70-130
Benzene	91	70-130
1,2-Dichloroethane	100	70-130
Heptane	100	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	94	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	96	70-130
4-Methyl-2-pentanone	93	70-130
Toluene	98	70-130
trans-1,3-Dichloropropene	86	70-130
1,1,2-Trichloroethane	93	70-130
Tetrachloroethene	92	70-130
2-Hexanone	91	70-130

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Client Sample ID: LCSD

Lab ID#: 1501029A-07BB

EPA METHOD TO-15 GC/MS

File Name:	**14010807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/15 12:14 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	99	70-130
1,2-Dibromoethane (EDB)	98	70-130
Chlorobenzene	95	70-130
Ethyl Benzene	101	70-130
m,p-Xylene	106	70-130
o-Xylene	101	70-130
Styrene	110	70-130
Bromoform	92	70-130
Cumene	105	70-130
1,1,2,2-Tetrachloroethane	92	70-130
Propylbenzene	106	70-130
4-Ethyltoluene	112	70-130
1,3,5-Trimethylbenzene	119	70-130
1,2,4-Trimethylbenzene	116	70-130
1,3-Dichlorobenzene	104	70-130
1,4-Dichlorobenzene	106	70-130
alpha-Chlorotoluene	167 Q	70-130
1,2-Dichlorobenzene	108	70-130
1,2,4-Trichlorobenzene	108	70-130
Hexachlorobutadiene	121	70-130
Naphthalene	57 Q	60-140
TPH ref. to Gasoline (MW=100)	Not Spiked	

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	96	70-130

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

Project Manager Ross Tyline
Collected by: (Print and Sign) Ross Tyline
Company SVC Environmental Email rosst@svcenv.com
Address 11 Kenton Ave City San Carlos State CA Zip 94070
Phone 650 210 3766 Fax

Project Info:
2145 35th Avenue
P.O. # Oakland
Project # ____
Project Name Salisbury

Turn Around Time:
☑ Normal
☐ Rush
_____ specify

Lab Use Only
Pressurized by
Date
Pressurization Gas: N2 He

FC-15

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Dup	
01A	SG-3	36518	1-2-14	1115-1123	TO15 for VOCs including naphthalene	-29.99	-9.77			399
02A	SG-2	33735	1-2-14	1203-1209		-27.91	-4.90			763
03A	SG-1	36383	1-2-14	1258-1305	TO3 for TPHg	-29.71	-5.88			657
04A	SG-1R	37317	1-2-14	1311-1318	ASTM D1946 for Oxygen, Nitrogen, CO_2 and Methane	-28.75	-5.05			657

Relinquished by: (signature) Date/Time 1630 1-2-14
Relinquished by: (signature) Date/Time
Relinquished by: (signature) Date/Time

Received by: (signature) Date/Time 1630
FedEx 1-2-14
Received by: (signature) Date/Time
Received by: (signature) Date/Time

Notes:
Global ID
T0619778840

Lab Use Only: Shipper Name FedEx | Air Bill # | Temp (°C) NA | Condition Good | Custody Seals Intact? Yes No (None) | Work Order # 15 1023

Form 1253 rev.11

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1/16/2015
Mr. Ross Tinline
SVC Environmental, Inc.
11 Kenton Ave

San Carlos CA 94070

Project Name: Salisbury
Project #:
Workorder #: 1501007

Dear Mr. Ross Tinline

The following report includes the data for the above referenced project for sample(s) received on 1/5/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-17 VI 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

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WORK ORDER #: 1501007

Work Order Summary

CLIENT:	Mr. Ross Tinline SVC Environmental, Inc. 11 Kenton Ave San Carlos, CA 94070	**BILL TO:**	Mr. Ross Tinline SVC Environmental, Inc. 11 Kenton Ave San Carlos, CA 94070
PHONE:	650-218-3766	**P.O. #**	2145 35th Ave Oakland CA
FAX:		**PROJECT #**	Salisbury
DATE RECEIVED:	01/05/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	01/16/2015		

FRACTION #	NAME	TEST
01A	SG-3	Modified TO-17 VI
02A	SG-2	Modified TO-17 VI
03A	SG-1	Modified TO-17 VI
04A	SG-1R	Modified TO-17 VI
05A	TRIP Blank	Modified TO-17 VI
06A	Lab Blank	Modified TO-17 VI
07A	CCV	Modified TO-17 VI
08A	LCS	Modified TO-17 VI
08AA	LCSD	Modified TO-17 VI

CERTIFIED BY: Heidi Mayo DATE: 01/16/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

LABORATORY NARRATIVE
Modified EPA Method TO-17 (VI Tubes)
SVC Environmental, Inc.
Workorder# 1501007

Five TO-17 VI Tube samples were received on January 05, 2015. The laboratory performed the analysis via modified EPA Method TO-17 using GC/MS in the full scan mode. TO-17 'VI' sorbent tubes are thermally desorbed onto a secondary trap. The trap is thermally desorbed to elute the components into the GC/MS system for compound separation and detection.

A modification that may be applied to EPA Method TO-17 at the client's discretion is the requirement to transport sorbent tubes at 4 deg C. Laboratory studies demonstrate a high level of stability for VOCs on the TO-17 'VI' tube at room temperature for periods of up to 14 days. Tubes can be shipped to and from the field site at ambient conditions as long as the 14-day sample hold time is upheld. Trip blanks and field surrogate spikes are used as additional control measures to monitor recovery and background contribution during tube transport.

Since the TO-17 VI application significantly extends the scope of target compounds addressed in EPA Method TO-15 and TO-17, the laboratory has implemented several method modifications outlined in the table below. Specific project requirements may over-ride the laboratory modifications.

Requirement	***TO-17***	***ATL Modifications***
Initial Calibration	%RSD</=30% with 2 allowed out up to 40%	VOC list: %RSD</=30% with 2 allowed out up to 40% SVOC list: %RSD</=30% with 2 allowed out up to 40%
Daily Calibration	%D for each target compound within +/-30%.	Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene within +/-40%D
Audit Accuracy	70-130%	Second source recovery limits for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene = 60-140%.
Distributed Volume Pairs	Collection of distributed volume pairs required for monitoring ambient air to insure high quality.	If the client is sampling well characterized air or has verified performance through previous sampling or distributed pairs, single tube sampling may be appropriate. Distributed volume pairs may not be practical or useful for soil vapor collection due to
Analytical Precision	</=20% RPD	<30% RPD for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene.

Receiving Notes

A Temperature Blank was included with the shipment. Temperature was measured and was not within 4±2 °C. Coolant in the form of blue ice was present. Analysis proceeded.

Analytical Notes

A sampling volume of 0.200 L was used to convert ng to ug/m3 for the associated TRIP Blank and Lab Blank.

Definition of Data Qualifying Flags

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

B - Compound present in blank (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, LOD, or MDL value. See data page for project specific U-flag definition.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-17

Client Sample ID: SG-3

Lab ID#: 1501007-01A

No Detections Were Found.

Client Sample ID: SG-2

Lab ID#: 1501007-02A

No Detections Were Found.

Client Sample ID: SG-1

Lab ID#: 1501007-03A

No Detections Were Found.

Client Sample ID: SG-1R

Lab ID#: 1501007-04A

No Detections Were Found.

Client Sample ID: TRIP Blank

Lab ID#: 1501007-05A

No Detections Were Found.

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Client Sample ID: SG-3
Lab ID#: 1501007-01A
EPA METHOD TO-17

File Name:	**6010923**	**Date of Extraction: NA**	**Date of Collection: 1/2/15 11:35:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 02:47 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	121	50-150

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Client Sample ID: SG-2
Lab ID#: 1501007-02A
EPA METHOD TO-17

File Name:	**6010924**	**Date of Extraction: NA**	**Date of Collection: 1/2/15 12:21:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 03:24 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	90	50-150

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Client Sample ID: SG-1
Lab ID#: 1501007-03A
EPA METHOD TO-17

File Name:	**6010925**	**Date of Extraction: NA**	**Date of Collection: 1/2/15 1:29:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 04:01 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	82	50-150

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Client Sample ID: SG-1R

Lab ID#: 1501007-04A

EPA METHOD TO-17

File Name:	**6010926**	**Date of Extraction: NA**	**Date of Collection: 1/2/15 1:37:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 04:38 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	120	50-150

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Client Sample ID: TRIP Blank

Lab ID#: 1501007-05A

EPA METHOD TO-17

File Name:	**6010922**	**Date of Extraction: NA**	**Date of Collection: 1/2/15 1:45:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 02:11 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	105	50-150

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Client Sample ID: Lab Blank

Lab ID#: 1501007-06A

EPA METHOD TO-17

File Name:	**6010921**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 12:09 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	121	50-150

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Client Sample ID: CCV
Lab ID#: 1501007-07A
EPA METHOD TO-17

File Name:	**6010920a**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 11:32 AM**

Compound	%Recovery
Naphthalene	86

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	131	50-150

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Client Sample ID: LCS
Lab ID#: 1501007-08A
EPA METHOD TO-17

File Name:	**6010915**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 02:06 AM**

Compound	%Recovery	Method Limits
Naphthalene	74	70-130

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	100	50-150

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Client Sample ID: LCSD
Lab ID#: 1501007-08AA
EPA METHOD TO-17

File Name:	**6010916**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 02:45 AM**

Compound	%Recovery	Method Limits
Naphthalene	74	70-130

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	102	50-150

TO-17 SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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FOLSOM, CA 95630
(916) 985-1000 FAX (916) 985-1020

Project Manager Ross Tmlne

Collected by: (Print and Sign) Ross Tmline

Company SVC Environmental Inc Email rosst@svcenv.com

Address 11 Kenton Ave City San Carlos State CA Zip 94070

Phone 650 218 3766 Fax

Project Info:
P.O. # 2145 35th Ave Oakland CA
Project #
Project Name Salisbury

Turn Around Time: ☒ Normal ☐ Rush (specify)

Reporting Units: ☐ ppmv ☐ ppbv ☒ µg/m3 ☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Engraved or Stamped Tube #	Date of Collection (mm/dd/yy)	Start Time (hr : min)	End Time (hr : min)	Pre-Test Flow Rate	Post-Test Flow Rate	Volume	Indoor/Outdoor % RH	Indoor/Outdoor Temp	Indoor Air	Outdoor Air	Soil Vapor	Other
01A	SG-3	G0187352	1-2-15	11:32	11:35			200mL			☐	☐	☒	☐
02A	SG-2	G0154148	1-2-15	12:18	12:21			200mL			☐	☐	☒	☐
03A	SG-1	G0147389	1-2-15	13:26	13:29			200mL			☐	☐	☒	☐
04A	SG-1R	G0139919	1-2-15	13:34	13:37			200mL			☐	☐	☒	☐
05A	Trip Blank	G0153078	1-2-15	13:44	13:45						☐	☐	☐	☒
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐

Relinquished by: (signature) Ross Tmline Date/Time 1-2-14 1630
Received by: (signature) FedEx Date/Time 1-2-14 1630

Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time 1-5-15 1302

Notes: TO17 for Naphthalene only
Global ID
T0619778B4

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		~~NA~~ 9.6°C	~~Good~~ SDR	Yes No (None)	151007

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1/16/2015
Mr. Ross Tinline
SVC Environmental, Inc.
11 Kenton Ave

San Carlos CA 94070

Project Name: Salisbury
Project #:
Workorder #: 1501029C

Dear Mr. Ross Tinline

The following report includes the data for the above referenced project for sample(s) received on 1/5/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 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

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WORK ORDER #: 1501029C

Work Order Summary

CLIENT:	Mr. Ross Tinline SVC Environmental, Inc. 11 Kenton Ave San Carlos, CA 94070	**BILL TO:**	Mr. Ross Tinline SVC Environmental, Inc. 11 Kenton Ave San Carlos, CA 94070
PHONE:	650-218-3766	**P.O. #**	2145 35th Avenue Oakland
FAX:		**PROJECT #**	Salisbury
DATE RECEIVED:	01/05/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	01/16/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SG-3	Modified ASTM D-1946	5.0 "Hg	15 psi
02A	SG-2	Modified ASTM D-1946	4.5 "Hg	15.5 psi
03A	SG-1	Modified ASTM D-1946	5.0 "Hg	15 psi
04A	SG-1R	Modified ASTM D-1946	5.0 "Hg	15 psi
05A	Lab Blank	Modified ASTM D-1946	NA	NA
06A	LCS	Modified ASTM D-1946	NA	NA
06AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY:  DATE: 01/16/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified ASTM D-1946
SVC Environmental, Inc.
Workorder# 1501029C

Four 1 Liter Summa Canister samples were received on January 05, 2015. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

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

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

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

Requirement	***ASTM D-1946***	***ATL Modifications***
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

According to the Chain of Custody (COC), samples SG-3, SG-2, SG-1 and SG-1R were collected on 1/2/14. However, the date on the sample tags for SG-3 and SG-2 reflects a collection date of 1/2/15. Therefore the date on the sample tags was used to calculate the sample holding time.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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

Client Sample ID: SG-3

Lab ID#: 1501029C-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.9
Nitrogen	0.24	88
Methane	0.00024	0.43
Carbon Dioxide	0.024	9.0

Client Sample ID: SG-2

Lab ID#: 1501029C-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	12
Nitrogen	0.24	84
Carbon Dioxide	0.024	3.5

Client Sample ID: SG-1

Lab ID#: 1501029C-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.8
Nitrogen	0.24	95
Methane	0.00024	0.028
Carbon Dioxide	0.024	3.5

Client Sample ID: SG-1R

Lab ID#: 1501029C-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.6
Nitrogen	0.24	95
Methane	0.00024	0.032
Carbon Dioxide	0.024	3.7

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Client Sample ID: SG-3

Lab ID#: 1501029C-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011212**	**Date of Collection: 1/2/15 11:23:00 AM**	
Dil. Factor:	**2.42**	**Date of Analysis: 1/12/15 03:19 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.9
Nitrogen	0.24	88
Methane	0.00024	0.43
Carbon Dioxide	0.024	9.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-2

Lab ID#: 1501029C-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011217**	**Date of Collection: 1/2/15 12:09:00 PM**	
Dil. Factor:	**2.42**	**Date of Analysis: 1/12/15 07:17 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	12
Nitrogen	0.24	84
Methane	0.00024	Not Detected
Carbon Dioxide	0.024	3.5

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-1

Lab ID#: 1501029C-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011215**	**Date of Collection: 1/2/15 1:05:00 PM**	
Dil. Factor:	**2.42**	**Date of Analysis: 1/12/15 05:31 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.8
Nitrogen	0.24	95
Methane	0.00024	0.028
Carbon Dioxide	0.024	3.5

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-1R

Lab ID#: 1501029C-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011216**	**Date of Collection: 1/2/15 1:18:00 PM**	
Dil. Factor:	**2.42**	**Date of Analysis: 1/12/15 05:52 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.24	1.6
Nitrogen	0.24	95
Methane	0.00024	0.032
Carbon Dioxide	0.024	3.7

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1501029C-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011207**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/12/15 11:19 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1501029C-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/12/15 08:46 AM**	

Compound	%Recovery	Method Limits
Oxygen	90	85-115
Nitrogen	95	85-115
Methane	88	85-115
Carbon Dioxide	93	85-115

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1501029C-06AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/12/15 09:15 AM**	

Compound	%Recovery	Method Limits
Oxygen	90	85-115
Nitrogen	95	85-115
Methane	89	85-115
Carbon Dioxide	93	85-115

Container Type: NA - Not Applicable

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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

Project Manager Ross Tyrlone
Collected by: (Print and Sign) Ross Tyrlone
Company SVC Environmental Email rosst@svcenv.com
Address 11 Kenton Ave City San Carlos State CA Zip 94070
Phone 650 218 3766 Fax

Project Info:
P.O. # 2145 35th Avenue Oakland
Project #
Project Name Salisbury

Turn Around Time:
☑ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

FC #

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	SG-3	36518	1-2-14	1115-1123	TO15 for VOCs	-29.90	-4.77			399
02A	SG-2	33735	1-2-14	1203-1209	including naphthalene	-27.91	-4.90			763
03A	SG-1	36383	1-2-14	1258-1305	TO3 for TPHg	-29.74	-5.88			6572
04A	SG-1 R	37317	1-2-14	1311-1318	ASTM D1946 for Oxygen, Nitrogen, CO_2 and Methane	-29.75	-5.00			6572

Relinquished by: (signature) Date/Time 1630 1-2-14
Received by: (signature) Date/Time 1630 FedEx 1-2-14
Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time SATR 1-5-15 1300
Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Notes:
Global ID
T0619778840

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		NA	Good	Yes No (None)	1501029

Form 1293 rev.11