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"Your Environmental Specialists"

REPORT FOR THE SUB-SLAB SOIL GAS

AND

CRAWL SPACE AIR SAMPLING

For the Site Located at:

2145 35TH AVENUE

OAKLAND, CALIFORNIA 94601

Prepared for:

Salisbury Avenue Associates LLC

Prepared by:

Eagle Environmental Construction (EEC)

1485 Bayshore Boulevard, Suite 374

San Francisco, CA 94124

October 21, 2016

Certification of this report and Perjury Statement

All engineering information, conclusions, and recommendations contained in this report have been prepared by a California Professional Engineer.

Report Prepared by:

Sami Malaeb, P.E., QSD/QSP

Project Manager

I declare under penalty of perjury, that the information and/or recommendations contained in this report are true and correct to the best of my knowledge.

Salisbury Avenue Associates LLC

Charles Thomas Shurstad

Property Owner

Managing Partner

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1.0 INTRODUCTION

This report for the sub-slab soil gas and crawl space air sampling and analysis is prepared for the former gasoline service station located at 2145 35th Avenue, Oakland, California (Figure 1). The report is prepared to describe the activities in the workplan dated March 22, 2016. The workplan for this job was approved by Alameda County Environmental Health (ACEH), in a letter dated May 13, 2016. The additional sub-slab soil gas and crawl space air sampling and analyses were requested due to past exceedances of the Low Threat Underground Storage Tank Case Closure Policy (LTCP) soil gas concentrations. In particular the LTCP concentrations were exceeded in soil gas SG3 and SG5, near the neighboring apartment building (Figure 2).

2.0 BACKGROUND AND PURPOSE

The onsite soil and groundwater investigation performed through 2012 was documented in a report titled "Phase II Environmental Investigation Report and Supplemental Investigation Workplan" dated August 2012. The 2012 report documented the following:

- Removal of the car maintenance pit;
- Removal of the hydraulic lift;
- Removal of the dispenser island and associated piping;
- Drilling of fifteen soil borings onsite with soil and groundwater sampling and analysis;
- Installation and closing of 4 temporary piezometers; and
- Drilling and sampling of four monitoring wells

The offsite soil and groundwater investigation performed in 2013 was documented in a report titled "Soil and Groundwater Investigation Report", dated November 12, 2013. The 2013 report documented the drilling and sampling of additional 10 offsite borings.

The latest groundwater monitoring report for the four monitoring wells onsite was dated August 25, 2016.

In early 2015, a total of six shallow soil locations, impacted with lead (Pb) above the residential ESL level of 80 mg/kg, were excavated. The soil was profiled and disposed of offsite at a regulated landfill. The excavation locations were backfilled with clean quarry soil and compacted to grade. The report summarizing the soil excavation activities and the first round of soil gas sampling was titled "Report for Data Gap Investigation, Interim Remedial Action, and Focused Conceptual Model Update for the Site Located at 2145 35th Avenue, Oakland, California", dated July 2015.

Between January and September 2015, soil gas sampling and analysis was performed at six locations (SG1 through SG-6, Figure 2). Latest report summarizing the soil gas sampling is titled "Report for supplemental Data Gap Investigation and Focused Conceptual Site Model Update for the site located at 2145 35th Avenue, Oakland, California", dated November 2015".

To date, the site has been fully characterized, except two areas requiring further investigation. These two areas were identified in ACEH letter dated January 5, 2016, as follows:

1. To excavate and dispose of the soil exceeding combined concentration of 100 mg/kg for Total Petroleum Hydrocarbons as Gasoline (TPH-G) and Total Petroleum Hydrocarbons as Diesel (TPH-D) in the area of the former gasoline UST (area of boring BH5) to a depth of 5 feet below bottom of foundation (7.5 feet below surface grade (bsg). For more details regarding the latest investigation onsite, please refer to the latest report titled "Supplemental Data Gap Investigation and Focused Conceptual Site Model Update for the Site Located at 2145 35th Avenue, Oakland, California, dated November 2015". EEC has submitted the workplan for the soil excavation dated September 2016. EEC is waiting for approval of the soil excavation workplan by ACEH.

2. To conduct additional sub-slab soil gas and crawl space air sampling for evaluating the impact of the soil vapor on the neighboring apartment building. This document details the report for the soil gas and crawl space air sampling.

3.0 REPORT FOR SUB-SLAB SOIL GAS AND CRAWL SPACE AIR SAMPLING AND ANALYSES

3.1 Sampling Locations

The sub-slab soil gas sampling was completed at two locations, SS1 and SS2. Also, one crawl space air sample (CS1) and one background air sample (BS1) were collected (Figure 2). The rational and locations of these samples were as follows:

- Sub-slab sample SS1 was placed near the wall of the neighboring apartment building and near the corner. This sample was located in the area shown in the past to have the soil gas concentrations exceeding the LTCP levels for benzene, Naphthalene, and Ethylbenzene in SG5. Due to the difficulty of drilling and sampling in the crawl space, sub-slab sample SS1 was drilled near the wall of the building (within 1 foot from the wall) to represent the condition in the sub-slab, below the apartment building.

- Sub-slab sample SS2 was placed near the wall of the neighboring apartment building further northwest. The purpose of the second sub-slab sample SS2 was to obtain further

data of the sub-slab condition under the apartment building. Again, Sub-slab sample SS2 was drilled near the wall of the building (within 1 foot from the wall) to represent the condition in the sub-slab, below the apartment building.

- Crawl space air sample CS1 was located under the apartment building, in the crawl space. A telescoped expandable rod was used to extend the tubing tip to approximately 12 to 15 feet inside the crawl space (Figure 2).

- Background sample BS1 was located on the fence of the site to evaluate the background outside air (Figure 2).

3.2 Study Purpose and Data Quality Objectives

The data quality objective in this case is to determine whether any of the concentrations in the soil gas samples of benzene, ethyl benzene, and naphthalene, exceeds the corresponding ESL limits. The ESL limits are listed in the San Francisco Bay Region, Water Quality Control Board (SFWQCB) ESL Summary Tables, updated in February 2016 (Summary of vapor ESLs).

For sub-slab soil vapor (residential), the limits are: benzene 48 $\mu g/m^3$; ethyl benzene 560 $\mu g/m^3$; and naphthalene 41 $\mu g/m^3$.

For indoor air quality in residential setting, the limits are: benzene 0.097 $\mu g/m^3$; ethyl benzene 1.1 $\mu g/m^3$; and naphthalene 0.083 $\mu g/m^3$.

Another objective is to evaluate the methane concentration in the sub-slab and crawl space to determine its concentration and whether methane is between its lower explosion limit (LEL) of 5% and upper explosion limit (UEL) of 15 %.

For TPH-G, the ESL of 50,000 $\mu g/m^3$ will be used for sub-slab and 590 $\mu g/m^3$ for crawl space air results.

3.3 Sampling and Analysis

3.3.1 Drilling and Sampling of the Sub-Slab Locations

The two sub-slab soil gas sampling followed Appendix G of DTSC Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air. The steps taken are as follows:

Sampling Probe Preparation

A small-diameter 1.0 inch hole was drilled through the concrete. A hand drill was used to drill the hole. Sub-slab hole was advanced three to four inches into the engineering fill below the slab. All drill cuttings was removed from the borehole.

The sampling probe was constructed with the following specifications (see the probe diagram in Figure 3):

- The vapor probe was constructed of 1/4 inch diameter Teflon™ tubing, with a permeable stainless steel probe tip set on and encased within #3 Monterey sand brought up to the bottom of the concrete slab.
- Dry bentonite was used to fill the borehole annular space above the sand to approximately 2.5-inches below the top of the slab. Hydrated granular bentonite was then placed above the dry granular bentonite to fill the borehole and mound above. Prior to the introduction of this material, the concrete surface in the borehole was cleaned with a damp towel to increase the potential of a good seal.
- Each probe was constructed with a gas-tight shut-off valve in the closed position.
- Prior to sampling, at least two hours of time elapsed following installation of the probe to allow the construction materials to set and allow for the subsurface to equilibrate. Field notes are included in Appendix A.

The collection of sub-slab samples followed the procedures in Cal/EPA's Active Soil Gas Investigation Advisory (updated July 2015), which recommended purge volume testing, leak testing, and shut-in testing. Purging and sampling rates did not exceed 200 milliliters per minute. Passivated metal canisters, cleaned and prepared by the certified laboratory were used for sampling.

3.3.2 Leak Testing, Purging, and Sampling

- To allow for the subsurface to equilibrate back to representative conditions, allowed at least two hours of time for equilibrium to be established.
- Used a shroud container to contain the tracer in a closed atmosphere.
- Performed a leak test - A leak test was performed of the manifold and fittings prior to sampling by observing the digital vacuum gauge over a period of at minimum 5-minutes to ensure vacuum tightness. Isopropyl alcohol was used for leak test under the shroud and on the fittings during sampling.

- Purge Volume Test - The purpose of a purge volume test is to ensure that stagnant air is removed from the sampling system and to ensure that samples are representative of subsurface conditions. A graduated syringe was connected to the manifold through a quick-connect valve to evacuate three volumes before collection of the soil gas samples. Flow rates between 100 to 200 milliliters per minute (ml/min) and vacuums less than 100 inches of water was maintained during purging and sampling.

- Passivated 1-liter stainless steel canisters with a flow regulator and vacuum gauge were used. One canister was used as a replicate sample, and other canisters were used for sampling. At least five days of dry weather was allowed before any soil gas sampling is conducted.

- Once the system was purged as described above, the sampling summa canister was opened and the entire sampling train encased within the shroud. Flow rates between 100 to 200 milliliters per minute (ml/min) and vacuums less than 100 inches of water was maintained during sampling.

- Sampling for naphthalene via the EPA Method TO-17 was performed utilizing a graduated vacuum syringe as follows: the Teflon tubing emanating from the closed vapor-tight valve of the probe was connected to the laboratory provided sampling sorbent tube then to the graduated syringe hosting a 3-way valve. To exceed the most stringent (residential) soil vapor ESL for naphthalene of 41 µg/m^3, a sample size volume of approximately 200 milliliters (mL) was drawn through the sorbent tube by four consecutive aliquots of 50 mL (200 mL total) over a period of approximately 3 minutes. The process was repeated at the other sub-slab sampling location.

- A chain of custody form was completed in the field. The starting and ending pressures for passivated stainless steel canisters were recorded on the chain of custody form. See Appendix A for the field notes.

3.3.3 Crawl Space and Background Sampling

- Collected a total of two air samples (one crawl space sample (CS1) and one outdoor, background air sample, (BS1) over an approximate time period of 24-hours:

    - One crawl space sample was located as close as possible to the central location of the building. Crawlspace sampling was recommended in lieu of indoor air sampling within the residences since crawl space air data may be less affected by consumer products and potentially less challenging to interpret, than indoor air.

    - One outdoor air sample on the upwind side of the building, on the fence of the site was collected, to provide background air quality data during the event.

Sampling was performed at locations shown on Figure 2. The crawl space sample was collected beneath the floor of the residence, in the crawl space. The outdoor air sample was

collected from the outdoor area on the fence of the subject property, at 5 to 6 feet from the ground. The air samples were collected in 6-liter Summa canisters equipped with 24-hour flow controllers. The canisters were field-checked for vacuum with a laboratory-supplied pressure gauge, prior to use. The canister initial vacuums was noted (target between 28 and 30 inches of mercury); and sampling began by opening the Summa canister valve and leaving open for approximately 24 hours (final vacuum target of between 3 and 6 inches of mercury). Following sample collection, the Summa canister valves were closed, flow controller removed and Summa sealed with a laboratory-supplied brass Swagelok cap. Beginning and ending times and canister initial and final vacuums were recorded on chain-of-custody forms and sample labels.

Additionally at each location, to confirm naphthalene concentrations, a low-flow personal air pump was pre- and post-calibrated to between approximately 18 and 26 milliliters per minute (mL/min). GilAir sampling pumps were utilized with low flow adapter on the lowest flow setting of 20 mL/min and calibrated utilizing a BIOS DC Lite primary standard. The pumps continuously withdrew ambient air through a laboratory provided sorbent tube to be analyzed for naphthalene by TO-17. Beginning and ending times, pre- and post-flow rates and calculated total flow through the sorbent tubes during the event was recorded on the field notes (Appendix A) with total flow provided on the chain-of-custody documentation submitted to the laboratory.

3.3.4 Analysis of Soil Gas Samples

Once the samples were collected, they were shipped to certified laboratory for analysis (Eurofins, Air Toxics), accompanied by a completed chain of custody. The samples were analyzed for the following:

- Using method TO-15SIM for volatile organics. In particular LTCP Appendix 4 compounds benzene, Ethyl benzene, and naphthalene were included. Also, Isopropyl alcohol (2-propanol), the tracer compound was included in method TO-15 for the sub-slab sample. Naphthalene was verified by using TO-17 Method;

- Method TO-3 was used for analyzing for the TPH-G range; and

- Method ASTM D1946 was used for Oxygen, Nitrogen, Carbon Dioxide, and Methane to evaluate methane concentrations and atmospheric gases.

The reporting limits were low enough to satisfy the DQOs for this project. That is, to be able to detect and compare the compound concentrations to the risk levels for indoor vapor intrusion.

3.4 Sub-Slab Probe Decommissioning

Once the sub slab soil gas sampling was completed, the temporary soil gas sampling holes were closed in place according to the Advisory for Active Soil Gas Investigations, Prepared by DTSC in April 2012 (DTSC 2012). The following decommissioning steps were followed:

1) Removed tubing from the hole;
2) Filled the open hole with hydrated bentonite. Finish the existing surface with concrete to match existing surface.

4.0 ANALYTICAL FINDINGS

The laboratory reports are included in Appendix B and the results are summarized in Tables 1 and 2.

4.1 Sub-Slab Soil Gas Samples Findings

Table 1 summarizes the results for the sub-slab sampling. All the analyzed contaminants in the sub-slab sample SS1, replicate sample SS1R, and SS2 were either non-detected or below the indicated ESLs. The 2-propanol was not detected in the sub-slab slab sample. 2-propanol was detected under the shroud at 98,000 µg/m^3 during sampling SS1; indicating no intrusion of the trace gas to the subsurface and no-short circuiting to the under the slab area.

4.2 Crawl Space and Background Air Samples Findings

Table 2 summarizes the results for the crawl space and background air samples.

Benzene: Benzene was detected in the crawl space sample CS1 at 1.1 µg/m^3 and in the outside air background sample BS1 at 0.33 µg/m^3, exceeding the ESL for indoor air of 0.097 µg/m^3.

Ethylbenzene: Ethylbenzene was detected in the crawl space sample CS1 at 0.15 µg/m^3 and in the outside air background sample BS1 at 0.23 µg/m^3, below the ESL for indoor air of 1.1 µg/m^3.

Naphthalene: Naphthalene was detected in the crawl space sample CS1 at 0.24 µg/m^3 and in the outside air background sample BS1 at 0.058 µg/m^3. Naphthalene exceeded its ESL for indoor ESL of 0.083 µg/m^3 in the crawl space.

TPH-G: TPH-G was not detected in the crawl space sample CS1 (ND<180 µg/m^3) and in the outside air background sample BS1 at (ND<180 µg/m^3), below the ESL for indoor air of 590 µg/m^3.

Methane: Methane was well below its explosive limit value in both samples CS1 and BS1. Methane was detected at 0.00030% in the crawl space sample CS1 and 0.00020% in the outside air background sample BS1.

5.0 CONCLUSIONS

Based on the analytical findings of the crawl space and sub-slab samples collected, we present the following conclusions:

- All the analyzed contaminants in the sub-slab sample SS1, replicate sample SS1R, and SS2 were either non-detected or below the indicated ESLs (Table 1). Therefore, there is no risk from the subsurface soil gas beneath the apartment building to the crawl space or indoor air quality.
- Benzene in the background air sample BS1 (0.33 µg/m^3) exceeded the ESL for indoor air of 0.097 µg/m^3. This would indicate existence of benzene in the outside air near the apartment building, already above the ESL for indoor air (Table 2).
- The sub-slab soil gas sample results of benzene were less than 1/10 the benzene ESL and the naphthalene sub-slab soil gas sample results were less than 1/8 the naphthalene ESL (sub-slab ESLs) (Table 1). Please note that drilling of SG5 during past soil gas sampling near the apartment building indicated the existence of clay soil, shielding the soil gas intrusion into the surface. Also, a six-inch intact slab of concrete exists in the bottom of the crawl space, further shielding any soil gas intrusion to the surface air. This would indicate the exceedances of benzene and naphthalene in the crawl space samples are likely to be attributed to the existence of the natural gas meters in the crawl space and not resulting from the subsurface gas (see the attached photos).

6.0 RECOMMENDATIONS

Based on the above conclusions, EEC recommends no further sub-slab soil gas or air sampling with regards to the nearby apartment building.

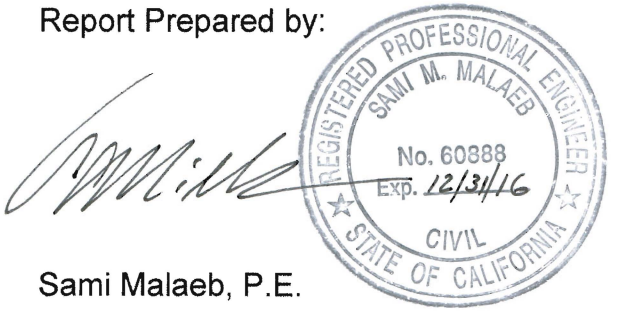
7.0 UPCOMING ACTIVITIES

The next activity to be conducted onsite is the to excavate and dispose of the soil exceeding combined concentration of 100 mg/kg for TPH-G and TPH-D in the area of the former gasoline UST (area of boring BH5) to a depth of 5 feet below bottom of foundation (7.5 feet below surface grade (bsg). EEC has submitted the workplan for the soil excavation dated September 2016. EEC is waiting for approval of the soil excavation workplan by ACEH. Once the soil excavation is completed, EEC will submit a report describing the field activities, its conclusions and recommendations, and the updated conceptual site model.

Thank you for your cooperation. If you have any questions, please call at (925) 858-9608 or email Sami Malaeb at s.malaeb@comcast.net.

All engineering information, conclusions, and recommendations contained in workplan have been prepared by a California Professional Engineer.

Report Prepared by:



Sami Malaeb, P.E.

Project Manager

I declare under penalty of perjury, that the information and/or recommendations contained in this report are true and correct to the best of my knowledge.

Salisbury Avenue Associates LLC

Charles Thomas Shurstad

Property Owner

Managing Partner

8.0 REFERENCES

Environmental Screening Levels, California Regional Water Quality Control Board, San Francisco Bay Region (SFCRWQCB), February 2016.

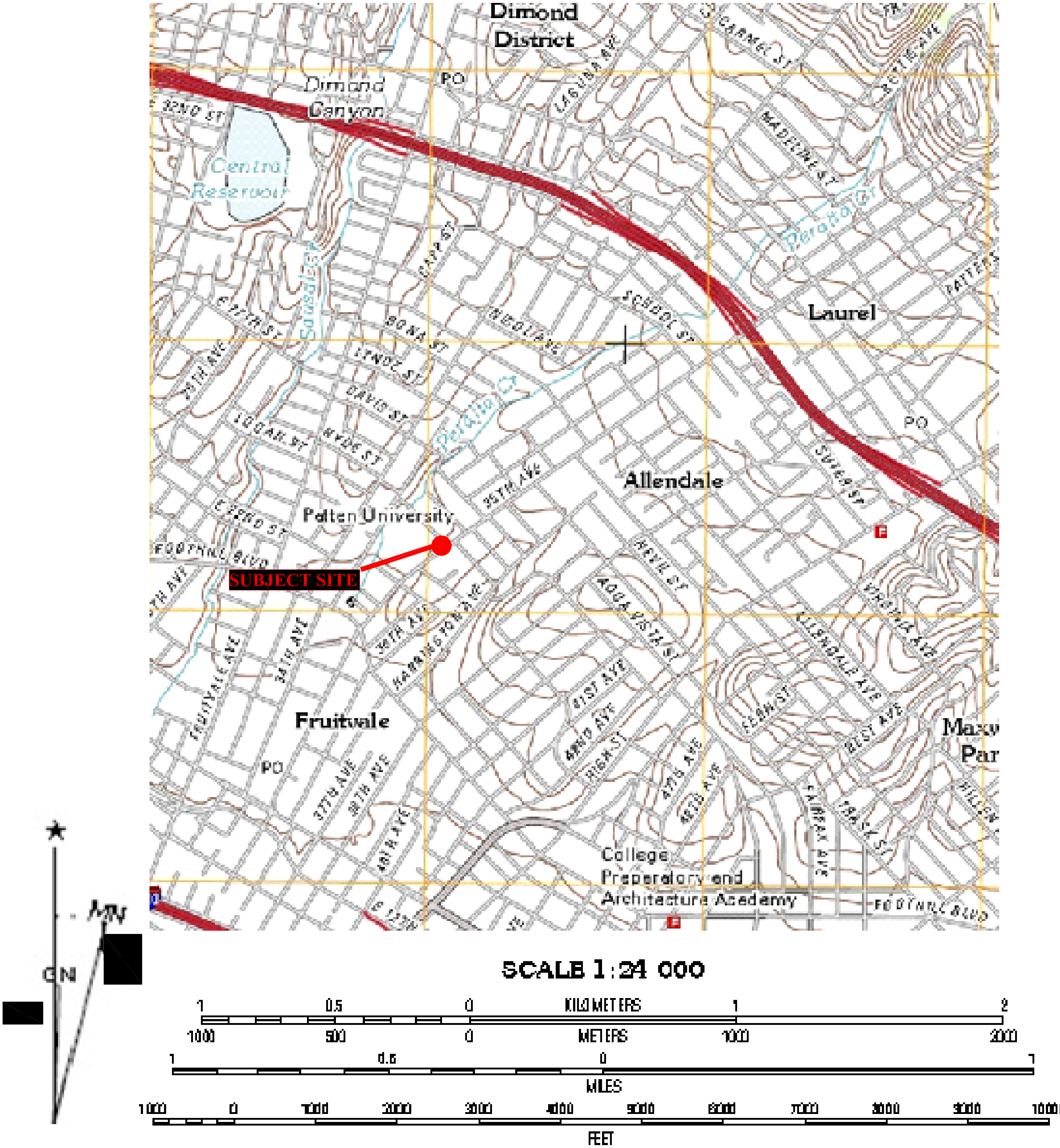
Guidance for the Evaluation and Mitigation of Subsurface vapor intrusion to Indoor Air (Vapor Intrusion Guidance), Department of Toxic Substances Control, California Environmental Protection Agency, October 2011.

Advisory, Active Soil Gas Investigations, Prepared by California Environmental Protection Agency (CAEPA); Department of Toxic Substances Control (DTSC); Los Angeles Regional Water Quality Control Board (LARWQCB); and San Francisco Regional Water Quality Control Board (SFRWQCB), April 2012.

FIGURES

OAKLAND EAST QUADRANGLE
CALIFORNIA
7.5-MINUTE SERIES

OAKLAND EAST, CA
2012



1485 BAYSHORE BOULEVARD, SUITE 374
SAN FRANCISCO, CA 94124

SITE LOCATION
2145 35TH AVENUE
OAKLAND, CA 94601

FIGURE 1

OCTOBER 2013

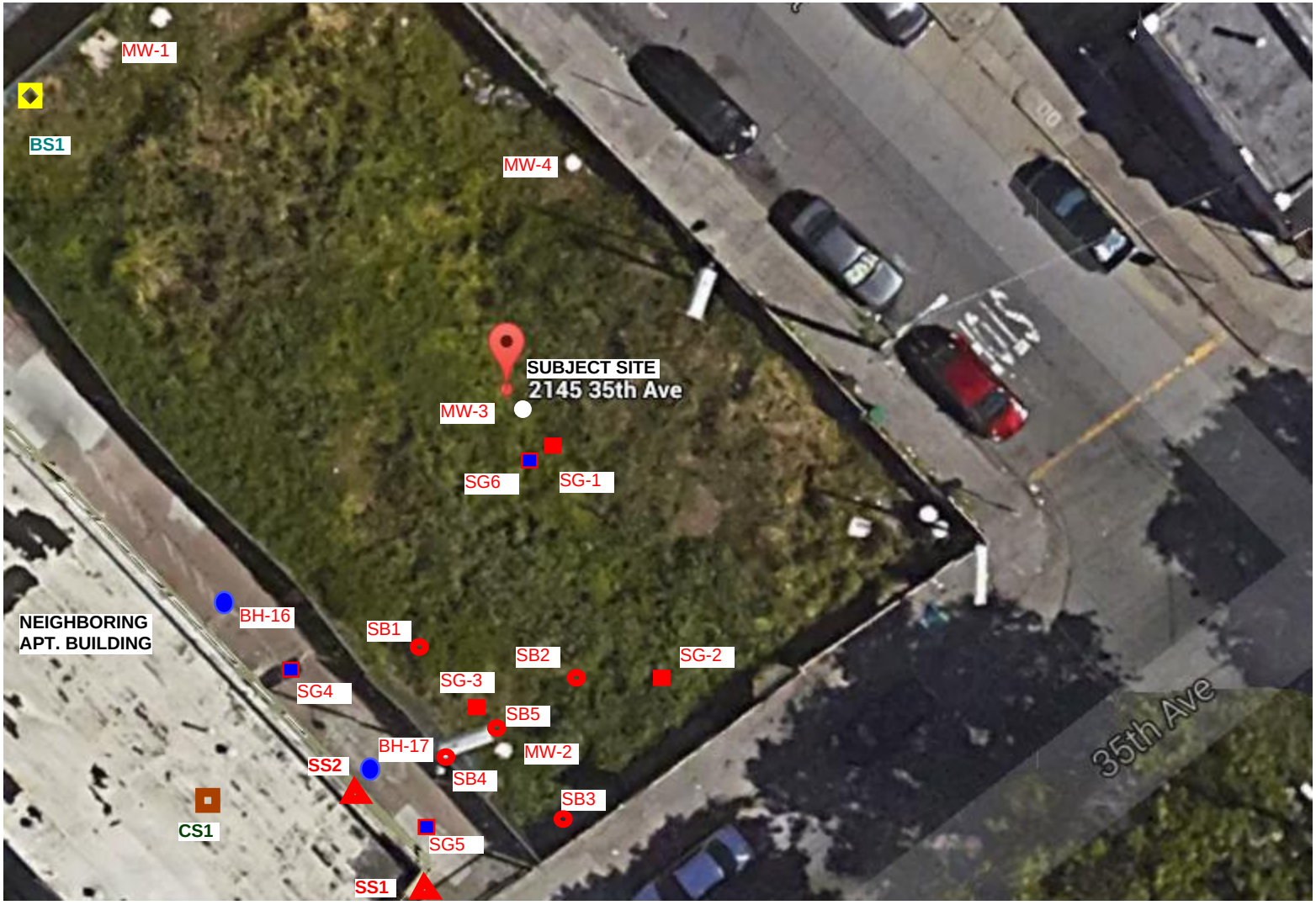
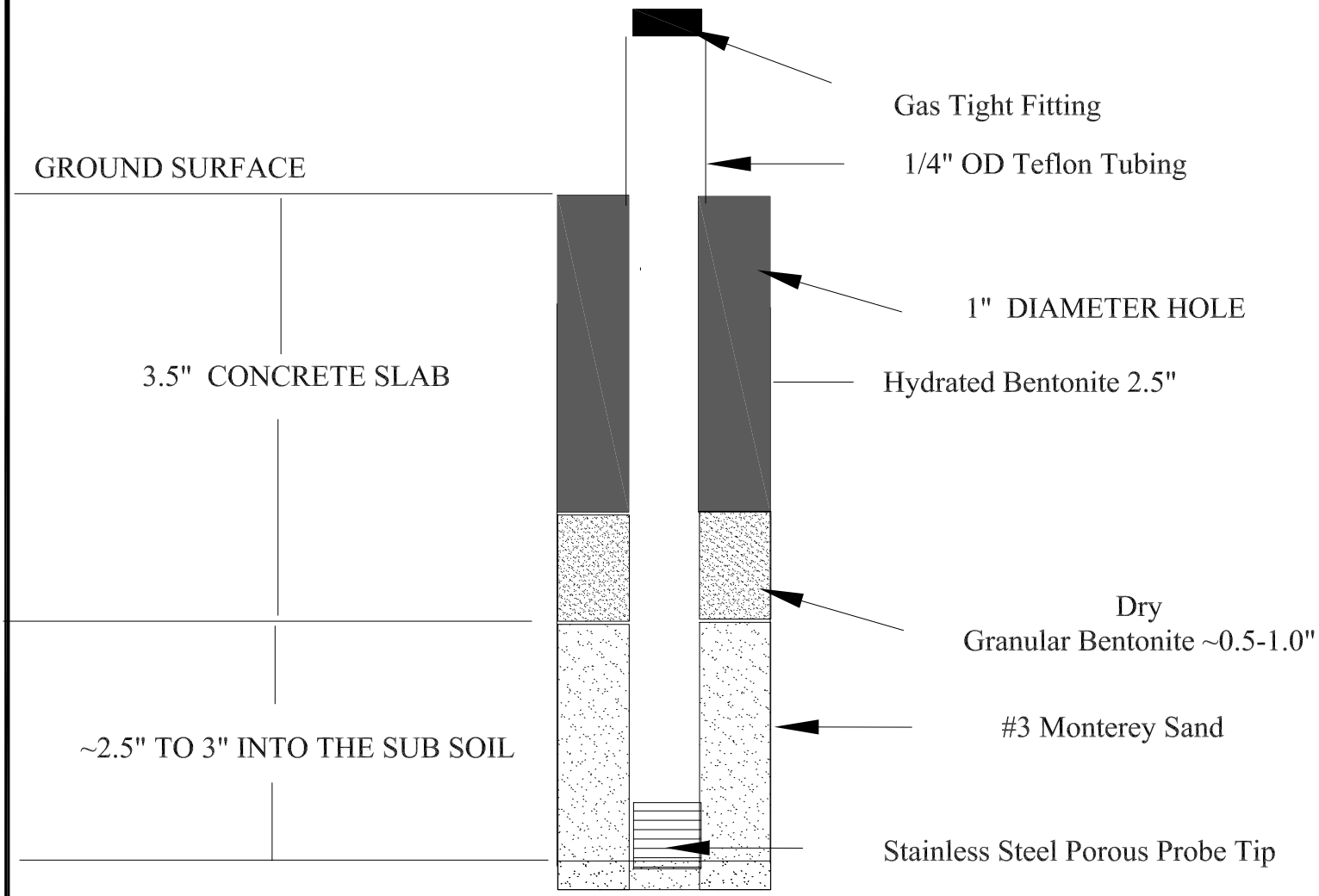


Figure 2- Locations of the Sub-Slab Soil Gas and Crawl Space Air Sampling



NOT TO SCALE

.

1485 BAYSHORE BOULEVARD SUITE 374 SAN FRANCISCO, CA 94124	2145 35th AVENUE OAKLAND, CALIFORNIA (10/07/2015) BY SM NOT TO SCALE	FIGURE 3 SUB-SLAB SAMPLING CONSTRUCTION DIAGRAM

PHOTOS

Photo 1 – Entrance to the crawl Space on the southwest side of the neighboring apartment building to the subject site is completely blocked with PG&E smart meters and boarded on each side. Clearance is approximately 16’ inches.

Photo 2 – Similar situation on the northwest crawl space entrance of the neighboring apartment building to the subject site.

Photo 3 –Closer look at the northwest crawl space entrance

TABLES

Table 1: Summary of Sub-Slab Soil Gas Sampling Results
2145 35th Avenue, Oakland, CA

Sample ID	Sample Description	Sampling Date	Benzene (µg/m^3)	Ethylbenzene (µg/m^3)	Naphthalene (µg/m^3)	TPH-G (µg/m^3)	Oxygen %	Methane %	Trace Gas 2-Propanol (µg/m^3)
SS1	First Sub-Slab Sample	09/08/2016	4.0	ND<5.0	ND<5.0 [a]	320	20	ND<0.00023	ND<11 [b]
SS-1R	First Sub-Slab Sample Replicate	09/08/2016	2.9 J[c]	ND<5.1	ND<5.0 [a]	260	20	ND<0.00024	ND<12 [b]
SS2	Second Sub-Slab Sample	09/08/2016	3.8	ND<4.9	ND<5.0 [a]	470	20	ND<0.00022	ND<11
SFWQCB ESLs [d]			48	560	41	50,000		Between 5% and 15%[e]	

[a]Confirmed by TO-17

[b]2-Propanol was introduced into the atmosphere under the shroud as a tracer gas. It was analyzed by TO-15 GC/MS and it was detected at 98,000 µg/m^3. However, 2-propanol was not detected in the sub-slab samples. No release from the atmosphere to the sub-slab occurred.

[c]Estimated Value

[d] California Regional Water Quality Control Board, San Francisco Bay Region (SFRWQCB), 2016, Summary of Soil ESLs, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater Prepared by: February 2016 (REV. 3)

[e]www.mathesonrigas.com

Table 2: Summary of the Neighboring Apartment Building Crawl Space and Background, Air Sampling Results
2145 35th Avenue, Oakland, CA

Sample ID	Sample Description	Sampling Date	Benzene (µg/m^3)	Ethylbenzene (µg/m^3)	Naphthalene (µg/m^3)	TPH-G (µg/m^3)	Oxygen %	Methane %
CS1	Crawl Space Air Sample	09/09/2016 And 10/01/2016 [a]	1.1	0.15	0.24[b]	ND <180	21	0.00030
BS1	Outside Background Air Sample	09/09/2016 And 10/01/2016 [a]	0.33	0.23	0.058[b]	ND <180	21	0.00020
SFWQCB ESLs [c]			0.097	1.1	0.083	590[d]		Between 5% and 15%[e]

[a] Conducted crawl space and background air sampling on two occasions. First time on 09/09/2016 when the lab analyzed the samples and missed analyzing for atmospheric gases and for TPH (Gasoline Range). Returned to the site and re-sampled on 10/01/2016 and analyzed for the missing analyses the first time.

[b] Confirmed by TO-17

[c] California Regional Water Quality Control Board, San Francisco Bay Region (SFRWQCB), 2016, Summary of Soil ESLs, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater Prepared by: February 2016 (REV. 3)

[d] ESL for Direct Exposure Human Health Risk Level

[e] www.mathesonrigas.com

APPENDIX A *FIELD NOTES*

Soil Vapor/Sub-Slab Sampling Data Sheet

Project Number: ~~SSS~~-EEC-01
Client:
Facility: Salisbury
Address: 2145 35th Ave, Oakland
Date: 9-8-16
Sampler: Ross Tinline
Weather: Sunny Warm

Location: SS2
Note: All vacuum (Vac) readings in "Hg

Purge Calculation & Target Volume: 5' of 1/4" tubing including manifold vol = 5' x 6mL/Ft = 30mL.
77mL sand added @ 37% porosity = 28.6mL
51mL dry bentonite added @ 50% porosity = 25.6mL.
So 3 pore volumes = 253mL to be purged prior to sampling

	Start Time	Initial Vac	End Time	Final Vac	Back Vac	Notes: (Passed / completed / purge volume removed)
Vac Test	15:15	24.12	15:25	24.13		Tight
Purge	15:30	~	15:35	~		Completed purge with graduated syringe
Sampling	1537	29.55	15:44	4.50	See below	

Measurements during sampling - Drops IPA in Shroud = 18

Time	1538	1539	1540	1541	1542	1543	1544	END
Vac	26.1 / 23.1	21.2 / 19.2	16.6 / 14.5	12.9 / 11.2	9 / 7.8	5.9 / 5.1	4.50	
PID ppmv	3.9 / 7.4	5.1 / 8.9	10.6 / 12.5	13.5 / 13.9	18.9 / 16.4	16.9 / 19.7	17.2	
Back Vac	<1		<1	<1	<1	<1		

Notes: or additional measurements
Leak checked 60mL syringe on TO17 tube
Pulled 200mL; 1549 → 1552.

Location: SS1

Purge Calculation & Target Volume: Purge as above; 3 pore volumes or 253mL

	Start Time	Initial Vac	End Time	Final Vac	Back Vac	Notes: (Passed / completed / purge volume removed)
Vac Test	16:05	23.84	16:10	23.86		tight
Purge	16:10	—	16:15	—	—	Purged 253mL with graduated syringe.
Sampling	16:18	29.53	16:25	4.14	See below	

Measurements during sampling - Drops IPA in Shroud = 18

Time	1619	1620	1621	1622	1623	1624	1625	End
Vac	23.2	18.7	14.9	13.2 / 11.6	9.9 / 8.5	7.3 / 6.1	5.3 / 4.14	
PID ppmv	0.4	4.7	6.6	8.2 / 8.0	8.0 / 8.4	8.5 / 8.7	6.9 / 7.2	
Back Vac				<1	<1	<1	<1	

Notes: or additional measurements
Shroud atmosphere sample (1L with blue flow controller)
Leak checked 60mL syringe on TO17 tube
Pulled 200mL from 1653 to 1656

Soil Vapor/Sub-Slab Sampling Data Sheet

Project Number:

Client:

Facility: Salisbury

Address: 2145 35th Ave Oakland

Date: 9-8-16

Sampler: Ross Tinline

Weather:

Location: SS1R

Note: All vacuum (Vac) readings in "Hg

Purge Calculation & Target Volume: Sample Replicate.

	Start Time	Initial Vac	End Time	Final Vac	Back Vac	Notes: (Passed / completed / purge volume removed)
Vac Test	16:31	21.87	16:36	21.89		Tight.
Purge	16:35	—	16:39	—		Purged 1 manifold volume ~18mL.
Sampling	16:36	29.51	16:43	4.60	See below	

Measurements during sampling - Drops IPA in Shroud = 18

Time	1637	1638	1639	1640	1641	1642	1643				
Vac	27.1 25.1	22.4 19.8	17.6 15.2	13.3 11.8	9.9 8.5	7.3 6.2	5.3 4.60				
PID ppmv	3.1 4.3	4.9 5.6	6.4 7.0	6.9 7.6	6.6 8.4	7.2 8.8	8.9 9.4				
Back Vac	<1	<1	<1	<1		<1		<1			

Notes: or additional measurements

Location:

Purge Calculation & Target Volume:

	Start Time	Initial Vac	End Time	Final Vac	Back Vac	Notes: (Passed / completed / purge volume removed)
Vac Test	:		:			
Purge	:		:			
Sampling	:		:		See below	

Measurements during sampling - Drops IPA in Shroud = ____

Time																		
Vac																		
PID ppmv																		
Back Vac																		

Notes: or additional measurements

SVC Environmental, Inc.
rosst@svcenv.com

SVC Environmental, Inc. — Field Notes

Client:
Facility: Salisbury
Address: 2145 35th Ave, Oakland
Weather:

Project Number: EEC-01
Date: 9-8-16

Time	Notes and Description of Activities	Personel: Ross Tinline

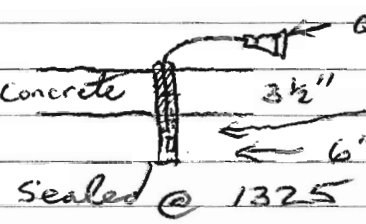
1135 Leak checked flow controllers of SIM certified 6L canisters

Serial #	Time 1145	1150	Tight
N0444	28.9	28.9	✓
N0617	30 Replaced Cap	24.9 24.9	✓

SUB-SLABS in DRIVEWAY.

1300 Drilled 1" ∅ bores through ~ 3½" Concrete

SS1



(77mL added).

Sealed @ 1325

SS2 Completed identical to SS1 and set @ 1335.

Upon sample completion; removed and sealed with quick set concrete.

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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 Sami Malaeb / Ross Tinline

Collected by: (Print and Sign) Ross Tinline

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. #
Project # Salisbury
Project Name 2145 35th Ave Oakland

Turn Around Time:
☒ Normal
☐ Rush
specify

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

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)	
	CS1	N0444	9-8-16 to 9-9-16	1228-1254	TO15 SIM (including	-28.5				20547
	BS1	N0617	9-8-16 to 9-9-16	1232-1253	benzene, ethylbenzene	-28.5				40176
					naphthalene)					
	SS2 *	IL2792	9-8-16	1537-1544	TO3 for TPHg	29.55	4.50			449
	SS1 *	36463	9-8-16	1619-1625	ASTM D1946 for	29.53	4.14			349
	SS1R *	IL2750	9-8-16	1636-1643	O_2, Nitrogen, CO_2	29.51	4.60			349
					& Methane					
	SS1 (IPA)	5526	9-8-16	1620-1625	TO15 5920 for 2propanol only	-27	-7			449

FC

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
for [illegible]	9-9-16 1520	Andrea Augusti EATL	9/9/16 1520
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
* also perform isopropyl alcohol on soil vapor samples (which are not SIM).
Global ID T0619778840
Detection limits below ESL's as possible.

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

Form 1293 rev.11

TO-17 SAMPLE COLLECTION

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

Project Manager Somi Malaeb/Ross Tipline

Collected by: (Print and Sign) Ross Tipline

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. #
Project # Salisbury
Project Name 2145 35th Ave Oakland

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)	Date of Retrieval (mm/dd/yy)	End Time (hr:min)	Pre-Test Flow Rate	Post-Test Flow Rate	Volume	Indoor Air	Outdoor Air	Soil Vapor	Other (Crawl Space/Leach)
	CS1	G0149967	9-8-16 to 9-9-16	1223	9-9-16	0604	—	— 24	192 mL	☐	☐	☐	☒
	BS1	G0149828	9-8-16	1232	9-9-16	0600	—	— 21	778 mL	☐	☐	☐	☒
										☐	☐	☐	☐
										☐	☐	☐	☐
										☐	☐	☐	☐
	SS1	G0153661	9-8-16	1653	9-8-16	1656			200mL	☐	☐	☒	☐
	SS2	G0152290	9-8-16	1549-1552	9-8-16	1552			200mL	☐	☐	☒	☐
	SS1R	G0147081	9-8-16	1702	9-8-16	1705			200mL	☐	☐	☒	☐
	TRIP BLANK	G0150544	9-9-16	0815	9-9-16	0816	—	—	0	☐	☐	☐	☒
										☐	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
for TL	9-9-16 1520	Andrea Augustin FATE	9/9/16 1520
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: TO17 for Naphthalene.
Global ID T0619778840
Hold all TO17 tubes pending TO15 results.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	HD		-0.6°C	Good	Yes No (None)	

Air Monitoring Field Notes

Client:
Facility: Salisbury
Address: 2145 35th Ave Oakland
Weather:

Project Number: EEC
Date: 9-8 to 9-9-16
Time Arrived:
Time Departed:

Sample Designation	Pump Number	Time On (H:M)	Time Off (H:M)	Total Minutes *	Flow Rate Pre-	Flow Rate Post-	Average Flow Rate	Pump Volume	Total Sample Volume
23387	23387	Set to 20mL/min			~~26.5~~	~~26.5~~	~~26.5~~		
CS1		1228	1802	332 (332)	26.5	26.5	26.5	8798	
changed pump									
	R197608	1802	0604	716 (716)	22.15	20.85	21.5	15,394	
									24,192
		1.1" BP							
	R197609	Set to	20mL/min		~~23.3~~	~~24.5~~	~~23.9~~		
BS1		1232	1758	322 (322)	23.3	24.5	23.9	7,696	
changed out pump.									
	26386	1759	0600	717 (717)	20.66	18.62	19.64	14,082	
									21,778 mL
		1.1" Back pressure			13.				

Note: Flow rate in liters per minute and volume in liters unless units otherwise designated.

Bios DryCal utilized (model 510L S/N 112753) Defender.
GilAir Plus personal pumps utilized; minimum flow setting = 20mL/min.
Minutes utilized from pump display as the pumps periodically self calibrate with a slight pause.

APPENDIX B *LABORATORY REPORTS*

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9/22/2016
Mr. Ross Tinline
SVC Environmental, Inc.
11 Kenton Ave

San Carlos CA 94070

Project Name: 2145 35th Ave Oakland
Project #: salisbury
Workorder #: 1609232

Dear Mr. Ross Tinline

The following report includes the data for the above referenced project for sample(s) received on 9/9/2016 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 Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1609232

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. #**	
FAX:		**PROJECT #**	salisbury 2145 35th Ave Oakland
DATE RECEIVED:	09/09/2016	**CONTACT:**	Ausha Scott
DATE COMPLETED:	09/22/2016		

FRACTION #	NAME	TEST
01A	CS1	Modified TO-17 VI
02A	BS1	Modified TO-17 VI
03A	SS1	Modified TO-17 VI
04A	SS2	Modified TO-17 VI
05A	SS1R	Modified TO-17 VI
06A	TRIP BLANK	Modified TO-17 VI
07A	Lab Blank	Modified TO-17 VI
08A	CCV	Modified TO-17 VI
09A	LCS	Modified TO-17 VI
09AA	LCSD	Modified TO-17 VI

CERTIFIED BY:  DATE: 09/22/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
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 - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified EPA Method TO-17 (VI Tubes)
SVC Environmental, Inc.
Workorder# 1609232

Six TO-17 VI Tube samples were received on September 09, 2016. 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 site is well-characterized or performance previously verified, single tube sampling may be appropriate. Distributed pairs may be impractical for soil gas collection due to configuration and volume constraints.
Analytical Precision	</=20% RPD	<30% RPD for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Sampling volume was supplied by the client. A sampling volume of 24.2 L was used to convert ng to ug/m3 for sample TRIP BLANK and the associated Lab Blank.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

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: CS1

Lab ID#: 1609232-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	0.041	5.8	0.24

Client Sample ID: BS1

Lab ID#: 1609232-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	0.046	1.2	0.058

Client Sample ID: SS1

Lab ID#: 1609232-03A

No Detections Were Found.

Client Sample ID: SS2

Lab ID#: 1609232-04A

No Detections Were Found.

Client Sample ID: SS1R

Lab ID#: 1609232-05A

No Detections Were Found.

Client Sample ID: TRIP BLANK

Lab ID#: 1609232-06A

No Detections Were Found.

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Client Sample ID: CS1
Lab ID#: 1609232-01A
EPA METHOD TO-17

File Name:	**6092029**	**Date of Extraction: NA**	**Date of Collection: 9/9/16 6:04:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 9/21/16 01:18 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	0.041	5.8	0.24

Air Sample Volume(L): 24.2
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	103	50-150

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Client Sample ID: BS1
Lab ID#: 1609232-02A
EPA METHOD TO-17

File Name:	**6092028**	**Date of Extraction: NA**	**Date of Collection: 9/8/16 6:00:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 9/21/16 12:38 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	0.046	1.2	0.058

Air Sample Volume(L): 21.8
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	60	50-150

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Client Sample ID: SS1
Lab ID#: 1609232-03A
EPA METHOD TO-17

File Name:	**6092025**	**Date of Extraction: NA**	**Date of Collection: 9/8/16 4:56:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 9/20/16 10:37 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	113	50-150

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Client Sample ID: SS2
Lab ID#: 1609232-04A
EPA METHOD TO-17

File Name:	**6092026**	**Date of Extraction: NA**	**Date of Collection: 9/8/16 3:52:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 9/20/16 11:17 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	91	50-150

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Client Sample ID: SS1R
Lab ID#: 1609232-05A
EPA METHOD TO-17

File Name:	**6092027**	**Date of Extraction: NA**	**Date of Collection: 9/8/16 5:05:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 9/20/16 11:58 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	102	50-150

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Client Sample ID: TRIP BLANK

Lab ID#: 1609232-06A

EPA METHOD TO-17

File Name:	**6092024**	**Date of Extraction: NA**	**Date of Collection: 9/9/16 8:16:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 9/20/16 09:57 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	0.041	Not Detected	Not Detected

Air Sample Volume(L): 24.2
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	110	50-150

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Client Sample ID: Lab Blank

Lab ID#: 1609232-07A

EPA METHOD TO-17

File Name:	**6092008d**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 9/20/16 10:39 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	0.041	Not Detected	Not Detected

Air Sample Volume(L): 24.2

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	96	50-150

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Client Sample ID: CCV
Lab ID#: 1609232-08A
EPA METHOD TO-17

File Name:	**6092003**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 9/20/16 07:17 AM**

Compound	%Recovery
Naphthalene	108

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

Surrogates	%Recovery	Method Limits
Naphthalene-d8	101	50-150

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Client Sample ID: LCS
Lab ID#: 1609232-09A
EPA METHOD TO-17

File Name:	**6092004**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 9/20/16 07:57 AM**

Compound	%Recovery	Method Limits
Naphthalene	109	70-130

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

Surrogates	%Recovery	Method Limits
Naphthalene-d8	97	50-150

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Client Sample ID: LCSD
Lab ID#: 1609232-09AA
EPA METHOD TO-17

File Name:	**6092005**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 9/20/16 08:38 AM**

Compound	%Recovery	Method Limits
Naphthalene	108	70-130

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

Surrogates	%Recovery	Method Limits
Naphthalene-d8	97	50-150

TO-17 SAMPLE COLLECTION

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CHAIN-OF-CUSTODY RECORD

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

Project Manager: Somi Malaeb / Ross Tinline

Collected by: (Print and Sign) Ross Tinline

Company: SVC Environmental Inc Email: ross@svcenv.com

Address: 11 Kenton Ave City: San Carlos State: CA Zip: 94070

Phone: 650 218 3766 Fax:

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

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)	Date of Retrieval (mm/dd/yy)	End Time (hr:min)	Pre-Test Flow Rate	Post-Test Flow Rate	Volume	Indoor Air	Outdoor Air	Soil Vapor	Other (Crawl Space/backyard)
01A	CS1	G0149967	9-8-16 to 9-9-16	1228	9-9-16	0604	—	— 24	192 mL	☐	☐	☐	☒
02A	BS1	G0149828	9-8-16	1232	9-9-16	0600	—	— 21	778mL	☐	☐	☐	☒
										☐	☐	☐	☐
										☐	☐	☐	☐
										☐	☐	☐	☐
03A	SS1	G0153661	9-8-16	1653	9-8-16	1656			200mL	☐	☐	☒	☐
04A	SS2	G0152290	9-8-16	1549-1552	9-8-16	1552			200mL	☐	☐	☒	☐
05A	SS1R	G0147081	9-8-16	1702	9-8-16	1705			200mL	☐	☐	☒	☐
06A	TRIP BLANK	G0150544	9-8-16	0815	9-9-16	0816	—	—	0	☐	☐	☐	☒
										☐	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	9-9-16 1520	Andrea Augustin EATL	9/9/16 1520
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: TO17 for Naphthalene.
Global ID T0619778840
Hold all TO17 tubes pending TO15 results.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	HD		-0.6 °C	Good	Yes No (None)	1609232

eurofins | Air Toxics

9/22/2016

Mr. Ross Tinline
SVC Environmental, Inc.
11 Kenton Ave

San Carlos CA 94070

Project Name: 2145 35th Ave, Oakland
Project #: salisbury
Workorder #: 1609286C

Dear Mr. Ross Tinline

The following report includes the data for the above referenced project for sample(s) received on 9/9/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-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 Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

eurofins | Air Toxics

WORK ORDER #: 1609286C

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. #**	
FAX:		**PROJECT #**	salisbury 2145 35th Ave, Oakland
DATE RECEIVED:	09/09/2016	**CONTACT:**	Ausha Scott
DATE COMPLETED:	09/22/2016		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
06A	SS1 (IPA)	Modified TO-15 (5&20 ppbv	6.3 "Hg	15 psi
07A	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
08A	CCV	Modified TO-15 (5&20 ppbv	NA	NA
09A	LCS	Modified TO-15 (5&20 ppbv	NA	NA
09AA	LCSD	Modified TO-15 (5&20 ppbv	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 09/22/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
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 - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15 Soil Gas
SVC Environmental, Inc.
Workorder# 1609286C

One 1 Liter Summa Canister sample was received on September 09, 2016. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample SS1 (IPA) due to the presence of high level target species.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, 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: SS1 (IPA)

Lab ID#: 1609286C-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	5100	40000	12000	98000

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Client Sample ID: SS1 (IPA)

Lab ID#: 1609286C-06A

EPA METHOD TO-15 GC/MS

File Name:	**14091623**	**Date of Collection:**	**9/8/16 4:25:00 PM**
Dil. Factor:	**256**	**Date of Analysis:**	**9/16/16 07:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	5100	40000	12000	98000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1609286C-07A

EPA METHOD TO-15 GC/MS

File Name:	**14091606**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/16/16 11:16 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	20	Not Detected	49	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 1609286C-08A

EPA METHOD TO-15 GC/MS

File Name:	**14091602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/16/16 09:06 AM**	

Compound	%Recovery
2-Propanol	110

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCS

Lab ID#: 1609286C-09A

EPA METHOD TO-15 GC/MS

File Name:	**14091603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/16/16 09:53 AM**	

Compound	%Recovery	Method Limits
2-Propanol	122	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCSD

Lab ID#: 1609286C-09AA

EPA METHOD TO-15 GC/MS

File Name:	**14091604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/16/16 10:19 AM**	

Compound	%Recovery	Method Limits
2-Propanol	122	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	106	70-130

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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 Sami Malaeb / Ross Tinline
Collected by: (Print and Sign) Ross Tinline
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. #
Project # Salisbury
Project Name 2145 35th Ave, Oakland

Turn Around Time:
☒ Normal
☐ Rush
specify

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

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)	FC #
01A	CS1	N0444	9-8-16 to 9-9-16	1228–1254	TO15 SIM (including	-28.5				20547
02A	BS1	N0617	9-8-16 to 9-9-16	1232–1253	benzene, ethylbenzene,	28.5				40176
					naphthalene)					
03A	SS2 *	IL2792	9-8-16	1537–1544	TO3 for TPHg	29.55	4.50			449
04A	SS1 *	36463	9-8-16	1619–1625	ASTM D1946 for	29.53	4.14			349
05A	SS1R *	IL2750	9-8-16	1636–1643	O_2, Nitrogen, CO_2	29.51	4.60			349
					& methane					
	[redacted]									
06A	SS1 (IPA)	5526	9-8-16	1620–1625	TO15 5420 for 2propanol	27	-7			449

V.V 9/14/16

Relinquished by: (signature) Date/Time: 9-9-16 1520
Received by: (signature) Date/Time: Andrea Augusti EATL 9/9/16 1520

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

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

Notes:
* also perform isopropyl alcohol on soil vapor samples (which are not SIM).
Global ID T0619778840
Detection limits below ESL's as possible.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	HD		NA	Good	Yes No None	1609286

Form 1293 rev.11

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9/22/2016

Mr. Ross Tinline
SVC Environmental, Inc.
11 Kenton Ave

San Carlos CA 94070

Project Name: 2145 35th Ave, Oakland
Project #: salisbury
Workorder #: 1609286A

Dear Mr. Ross Tinline

The following report includes the data for the above referenced project for sample(s) received on 9/9/2016 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 Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1609286A

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. #**	
FAX:		**PROJECT #**	salisbury 2145 35th Ave, Oakland
DATE RECEIVED:	09/09/2016	**CONTACT:**	Ausha Scott
DATE COMPLETED:	09/22/2016		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
03A	SS2	TO-15	3.5 "Hg	14.6 psi
04A	SS1	TO-15	3.9 "Hg	14.7 psi
05A	SS1R	TO-15	4.5 "Hg	14.7 psi
06A	Lab Blank	TO-15	NA	NA
07A	CCV	TO-15	NA	NA
08A	LCS	TO-15	NA	NA
08AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 09/22/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
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 - 95630
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LABORATORY NARRATIVE
EPA Method TO-15
SVC Environmental, Inc.
Workorder# 1609286A

Three 1 Liter Summa Canister samples were received on September 09, 2016. 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

As per client project requirements, the laboratory has reported estimated values for Benzene and Naphthalene hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified (0.2 ppbv for compounds reported at 0.5 ppbv and 0.8 ppbv for compounds reported at 2.0 ppbv) may be false positives.

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 FULL SCAN

Client Sample ID: SS2

Lab ID#: 1609286A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.5	13	8.5	25
Acetone	11	130	27	300
2-Butanone (Methyl Ethyl Ketone)	4.5	6.9	13	20
Tetrahydrofuran	1.1	1.6	3.3	4.8
Benzene	1.1	1.2	3.6	3.8
Toluene	1.1	3.9	4.2	14
m,p-Xylene	1.1	2.8	4.9	12

Client Sample ID: SS1

Lab ID#: 1609286A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.6	4.8	8.7	9.0
Acetone	12	50	27	120
2-Butanone (Methyl Ethyl Ketone)	4.6	4.8	14	14
Benzene	1.2	1.2	3.7	4.0
Toluene	1.2	1.5	4.3	5.8
m,p-Xylene	1.2	1.5	5.0	6.6

Client Sample ID: SS1R

Lab ID#: 1609286A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.7	5.3	8.8	10
Acetone	12	52	28	120
Benzene	1.2	0.90 J	3.8	2.9 J

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Client Sample ID: SS2

Lab ID#: 1609286A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3091612**	**Date of Collection:**	**9/8/16 3:44:00 PM**
Dil. Factor:	**2.26**	**Date of Analysis:**	**9/16/16 05:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.6	Not Detected
Freon 114	1.1	Not Detected	7.9	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	13	8.5	25
Freon 113	1.1	Not Detected	8.7	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	130	27	300
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	4.5	Not Detected	14	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Methyl tert-butyl ether	4.5	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.5	6.9	13	20
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	1.6	3.3	4.8
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.1	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	1.2	3.6	3.8
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.1	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.6	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	3.9	4.2	14
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.7	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected

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Client Sample ID: SS2

Lab ID#: 1609286A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3091612**	**Date of Collection:**	**9/8/16 3:44:00 PM**
Dil. Factor:	**2.26**	**Date of Analysis:**	**9/16/16 05:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.6	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.7	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	2.8	4.9	12
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.8	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	34	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Naphthalene	2.3	Not Detected	12	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: SS1

Lab ID#: 1609286A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3091613**	**Date of Collection:**	**9/8/16 4:25:00 PM**
Dil. Factor:	**2.30**	**Date of Analysis:**	**9/16/16 06:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.7	Not Detected
Freon 114	1.2	Not Detected	8.0	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	2.9	Not Detected
1,3-Butadiene	1.2	Not Detected	2.5	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.6	4.8	8.7	9.0
Freon 113	1.2	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	50	27	120
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.6	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	4.8	14	14
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Benzene	1.2	1.2	3.7	4.0
1,2-Dichloroethane	1.2	Not Detected	4.6	Not Detected
Heptane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.2	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.7	Not Detected
Toluene	1.2	1.5	4.3	5.8
trans-1,3-Dichloropropene	1.2	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Tetrachloroethene	1.2	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected

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Client Sample ID: SS1

Lab ID#: 1609286A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3091613**	**Date of Collection:**	**9/8/16 4:25:00 PM**
Dil. Factor:	**2.30**	**Date of Analysis:**	**9/16/16 06:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	8.8	Not Detected
Chlorobenzene	1.2	Not Detected	5.3	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	1.5	5.0	6.6
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	4.9	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	7.9	Not Detected
Propylbenzene	1.2	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Naphthalene	2.3	Not Detected	12	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SS1R

Lab ID#: 1609286A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3091614**	**Date of Collection:**	**9/8/16 4:43:00 PM**
Dil. Factor:	**2.35**	**Date of Analysis:**	**9/16/16 06:43 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.2	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.6	Not Detected
Ethanol	4.7	5.3	8.8	10
Freon 113	1.2	Not Detected	9.0	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	52	28	120
2-Propanol	4.7	Not Detected	12	Not Detected
Carbon Disulfide	4.7	Not Detected	15	Not Detected
3-Chloropropene	4.7	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.5	Not Detected
Benzene	1.2	0.90 J	3.8	2.9 J
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.9	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	8.0	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected

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Client Sample ID: SS1R

Lab ID#: 1609286A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3091614**	**Date of Collection: 9/8/16 4:43:00 PM**	
Dil. Factor:	**2.35**	**Date of Analysis: 9/16/16 06:43 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	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.1	Not Detected
m,p-Xylene	1.2	Not Detected	5.1	Not Detected
o-Xylene	1.2	Not Detected	5.1	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.1	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.1	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.1	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.1	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.1	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	35	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
Naphthalene	2.4	Not Detected	12	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

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Client Sample ID: Lab Blank

Lab ID#: 1609286A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3091606e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/16/16 01:11 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	2.0	Not Detected	7.2	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#: 1609286A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3091606e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/16/16 01:11 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	1.0	Not Detected	5.2	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: CCV

Lab ID#: 1609286A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3091602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/16/16 10:47 AM**	

Compound	%Recovery
Freon 12	95
Freon 114	97
Chloromethane	93
Vinyl Chloride	93
1,3-Butadiene	89
Bromomethane	101
Chloroethane	90
Freon 11	95
Ethanol	84
Freon 113	96
1,1-Dichloroethene	92
Acetone	85
2-Propanol	87
Carbon Disulfide	88
3-Chloropropene	90
Methylene Chloride	92
Methyl tert-butyl ether	87
trans-1,2-Dichloroethene	96
Hexane	84
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	91
Tetrahydrofuran	87
Chloroform	92
1,1,1-Trichloroethane	91
Cyclohexane	88
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	90
Benzene	99
1,2-Dichloroethane	97
Heptane	94
Trichloroethene	108
1,2-Dichloropropane	93
1,4-Dioxane	96
Bromodichloromethane	98
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	78
Toluene	91
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	101
Tetrachloroethene	102
2-Hexanone	92

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Client Sample ID: CCV

Lab ID#: 1609286A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3091602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/16/16 10:47 AM**	

Compound	%Recovery
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	100
Chlorobenzene	97
Ethyl Benzene	97
m,p-Xylene	97
o-Xylene	97
Styrene	104
Bromoform	103
Cumene	97
1,1,2,2-Tetrachloroethane	100
Propylbenzene	98
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	107
Hexachlorobutadiene	100
Naphthalene	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCS

Lab ID#: 1609286A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3091603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/16/16 11:13 AM**	

Compound	%Recovery	Method Limits
Freon 12	104	70-130
Freon 114	111	70-130
Chloromethane	97	70-130
Vinyl Chloride	103	70-130
1,3-Butadiene	94	70-130
Bromomethane	110	70-130
Chloroethane	100	70-130
Freon 11	106	70-130
Ethanol	91	70-130
Freon 113	100	70-130
1,1-Dichloroethene	100	70-130
Acetone	92	70-130
2-Propanol	97	70-130
Carbon Disulfide	84	70-130
3-Chloropropene	90	70-130
Methylene Chloride	101	70-130
Methyl tert-butyl ether	88	70-130
trans-1,2-Dichloroethene	105	70-130
Hexane	91	70-130
1,1-Dichloroethane	101	70-130
2-Butanone (Methyl Ethyl Ketone)	99	70-130
cis-1,2-Dichloroethene	97	70-130
Tetrahydrofuran	92	70-130
Chloroform	99	70-130
1,1,1-Trichloroethane	94	70-130
Cyclohexane	93	70-130
Carbon Tetrachloride	95	70-130
2,2,4-Trimethylpentane	94	70-130
Benzene	102	70-130
1,2-Dichloroethane	100	70-130
Heptane	96	70-130
Trichloroethene	115	70-130
1,2-Dichloropropane	97	70-130
1,4-Dioxane	95	70-130
Bromodichloromethane	105	70-130
cis-1,3-Dichloropropene	93	70-130
4-Methyl-2-pentanone	78	70-130
Toluene	94	70-130
trans-1,3-Dichloropropene	100	70-130
1,1,2-Trichloroethane	103	70-130
Tetrachloroethene	104	70-130
2-Hexanone	94	70-130

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Client Sample ID: LCS

Lab ID#: 1609286A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3091603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/16/16 11:13 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	105	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	95	70-130
m,p-Xylene	96	70-130
o-Xylene	98	70-130
Styrene	103	70-130
Bromoform	104	70-130
Cumene	96	70-130
1,1,2,2-Tetrachloroethane	98	70-130
Propylbenzene	97	70-130
4-Ethyltoluene	94	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	95	70-130
1,3-Dichlorobenzene	98	70-130
1,4-Dichlorobenzene	98	70-130
alpha-Chlorotoluene	99	70-130
1,2-Dichlorobenzene	97	70-130
1,2,4-Trichlorobenzene	111	70-130
Hexachlorobutadiene	113	70-130
Naphthalene	94	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCSD

Lab ID#: 1609286A-08AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3091604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/16/16 11:40 AM**	

Compound	%Recovery	Method Limits
Freon 12	106	70-130
Freon 114	113	70-130
Chloromethane	100	70-130
Vinyl Chloride	106	70-130
1,3-Butadiene	96	70-130
Bromomethane	111	70-130
Chloroethane	101	70-130
Freon 11	107	70-130
Ethanol	95	70-130
Freon 113	101	70-130
1,1-Dichloroethene	102	70-130
Acetone	92	70-130
2-Propanol	99	70-130
Carbon Disulfide	84	70-130
3-Chloropropene	92	70-130
Methylene Chloride	102	70-130
Methyl tert-butyl ether	91	70-130
trans-1,2-Dichloroethene	107	70-130
Hexane	93	70-130
1,1-Dichloroethane	102	70-130
2-Butanone (Methyl Ethyl Ketone)	98	70-130
cis-1,2-Dichloroethene	97	70-130
Tetrahydrofuran	94	70-130
Chloroform	102	70-130
1,1,1-Trichloroethane	97	70-130
Cyclohexane	94	70-130
Carbon Tetrachloride	98	70-130
2,2,4-Trimethylpentane	96	70-130
Benzene	102	70-130
1,2-Dichloroethane	100	70-130
Heptane	94	70-130
Trichloroethene	114	70-130
1,2-Dichloropropane	96	70-130
1,4-Dioxane	93	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	92	70-130
4-Methyl-2-pentanone	79	70-130
Toluene	94	70-130
trans-1,3-Dichloropropene	100	70-130
1,1,2-Trichloroethane	103	70-130
Tetrachloroethene	104	70-130
2-Hexanone	95	70-130

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Client Sample ID: LCSD

Lab ID#: 1609286A-08AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3091604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/16/16 11:40 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	105	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	98	70-130
Ethyl Benzene	97	70-130
m,p-Xylene	95	70-130
o-Xylene	98	70-130
Styrene	104	70-130
Bromoform	104	70-130
Cumene	96	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Propylbenzene	98	70-130
4-Ethyltoluene	97	70-130
1,3,5-Trimethylbenzene	98	70-130
1,2,4-Trimethylbenzene	96	70-130
1,3-Dichlorobenzene	98	70-130
1,4-Dichlorobenzene	98	70-130
alpha-Chlorotoluene	101	70-130
1,2-Dichlorobenzene	97	70-130
1,2,4-Trichlorobenzene	106	70-130
Hexachlorobutadiene	108	70-130
Naphthalene	88	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	99	70-130

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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 Sami Malaeb / Ross Timline
Collected by: (Print and Sign) Ross Timline
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. #
Project # Salisbury
Project Name 2145 35th Ave, Oakland

Turn Around Time:
[X] 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	CS1	N0444	9-8-16 to 9-9-16	1228–1254	TO15 SIM (including	-28.5				20547
02A	BS1	N0617	9-8-16 to 9-9-16	1232–1253	benzene, ethylbenzene, naphthalene)	28.5				40176
03A	SS2 *	IL2792	9-8-16	1537–1544	TO3 for TPHg	29.55	4.50			449
04A	SS1 *	36463	9-8-16	1619–1625	ASTM D1946 for	29.53	4.14			349
05A	SS1R *	IL2750	9-8-16	1636–1643	O_2, Nitrogen, CO_2 & methane	29.51	4.60			349
	[redacted]									
06A	SS1 (IPA)	5526	9-8-16	1620–1625	TO15 5920 for 2propanol	27	-7			449

V-V 9/14/16
V-V 9/14/16

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
for RL	9-9-16 1520	Audrey Augusti EATL	9/9/16 1520
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
* also perform isopropyl alcohol only on soil vapor samples (which are not SIM).
Global ID T0619778840
Detection limits below ESL's as possible.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	HD		NA	Good	Yes No None	1609286

Form 1293 rev.11

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9/22/2016

Mr. Ross Tinline
SVC Environmental, Inc.
11 Kenton Ave

San Carlos CA 94070

Project Name: 2145 35th Ave, Oakland
Project #: salisbury
Workorder #: 1609286D

Dear Mr. Ross Tinline

The following report includes the data for the above referenced project for sample(s) received on 9/9/2016 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 Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1609286D

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. #**	
FAX:		**PROJECT #**	salisbury 2145 35th Ave, Oakland
DATE RECEIVED:	09/09/2016	**CONTACT:**	Ausha Scott
DATE COMPLETED:	09/22/2016		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
03A	SS2	Modified TO-3	3.5 "Hg	14.6 psi
04A	SS1	Modified TO-3	3.9 "Hg	14.7 psi
05A	SS1R	Modified TO-3	4.5 "Hg	14.7 psi
06A	Lab Blank	Modified TO-3	NA	NA
07A	LCS	Modified TO-3	NA	NA
07AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 09/22/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
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 - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
SVC Environmental, Inc.
Workorder# 1609286D

Three 1 Liter Summa Canister samples were received on September 09, 2016. 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 EATL 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

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

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

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

Client Sample ID: SS2

Lab ID#: 1609286D-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.056	0.23	0.11	0.47

Client Sample ID: SS1

Lab ID#: 1609286D-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.058	0.24	0.077	0.32

Client Sample ID: SS1R

Lab ID#: 1609286D-05A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.059	0.24	0.064	0.26

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Client Sample ID: SS2

Lab ID#: 1609286D-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d092004**	**Date of Collection: 9/8/16 3:44:00 PM**	
Dil. Factor:	**2.25**	**Date of Analysis: 9/20/16 10:06 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.056	0.23	0.11	0.47

Container Type: 1 Liter Summa Canister

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

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Client Sample ID: SS1

Lab ID#: 1609286D-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d092005**	**Date of Collection: 9/8/16 4:25:00 PM**	
Dil. Factor:	**2.30**	**Date of Analysis: 9/20/16 10:38 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.058	0.24	0.077	0.32

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	93	75-150

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Client Sample ID: SS1R

Lab ID#: 1609286D-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d092006**	**Date of Collection: 9/8/16 4:43:00 PM**	
Dil. Factor:	**2.35**	**Date of Analysis: 9/20/16 11:12 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.059	0.24	0.064	0.26

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	93	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1609286D-06A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d092003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/20/16 09:33 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)	92	75-150

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Client Sample ID: LCS

Lab ID#: 1609286D-07A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d092002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/20/16 08:59 AM**	

Compound	%Recovery	Method Limits
TPH (Gasoline Range)	89	75-125

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	100	75-150

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Client Sample ID: LCSD

Lab ID#: 1609286D-07AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d092015**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/20/16 05:01 PM**	

Compound	%Recovery	Method Limits
TPH (Gasoline Range)	87	75-125

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	100	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 Sami Maleeb / Ross Tinline
Collected by: (Print and Sign) Ross Tinline
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. #
Project # Salisbury
Project Name 2145 35th Ave Oakland

Turn Around Time:
☒ Normal
☐ Rush
specify

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

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)	FC #
01A	CS1	N0444	9-8-16 to 9-9-16	1228 – 1254	TO15 SIM (including	-28.5				20547
02A	BS1	N0617	9-8-16 to 9-9-16	1232 – 1253	benzene, ethylbenzene, naphthalene)	28.5				40176
03A	SS2 *	1L2792	9-8-16	1537 – 1544	TO3 for TPHg	29.55	4.50			449
04A	SS1 *	36463	9-8-16	1619 – 1625	ASTM D1946 for	29.53	4.14			349
05A	SS1R *	1L2750	9-8-16	1636 – 1643	O_2, Nitrogen, CO_2 & methane	29.51	4.60			349
	[redacted]									
06A	SS1 (IPA)	5526	9-8-16	1620 – 1625	TO15 5420 for 2propanol	27	-7			449

V.V 9/14/16

9/14/16

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
for CL	9-9-16 1520	Andrea Augusti EATL	9/9/16 1520
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
* also perform isopropyl alcohol on soil vapor samples (which are not SIM).
Global ID T0619778840
Detection limits below ESL's as possible.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	HD		NA	Good	Yes No None	1609286

Form 1293 rev.11

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9/22/2016

Mr. Ross Tinline
SVC Environmental, Inc.
11 Kenton Ave

San Carlos CA 94070

Project Name: 2145 35th Ave, Oakland
Project #: salisbury
Workorder #: 1609286B

Dear Mr. Ross Tinline

The following report includes the data for the above referenced project for sample(s) received on 9/9/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM 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 Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1609286B

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. #**	
FAX:		**PROJECT #**	salisbury 2145 35th Ave, Oakland
DATE RECEIVED:	09/09/2016	**CONTACT:**	Ausha Scott
DATE COMPLETED:	09/22/2016		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	CS1	Modified TO-15 SIM	4.1 "Hg	5.3 psi
02A	BS1	Modified TO-15 SIM	8.8 "Hg	5.2 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 09/22/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
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 TO-15 SIM
SVC Environmental, Inc.
Workorder# 1609286B

Two 6 Liter Summa Canister (SIM Certified) samples were received on September 09, 2016. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition 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.

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

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for Benzene and Naphthalene that are below the Reporting Limit but greater than the Method Detection Limit. Results are reported as qualified with high probability for false positive.

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
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: CS1

Lab ID#: 1609286B-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.031	0.42	0.16	2.0
Chloromethane	0.078	0.48	0.16	1.0
Vinyl Chloride	0.016	0.11	0.040	0.28
Chloroform	0.031	0.057	0.15	0.28
Carbon Tetrachloride	0.031	0.54	0.20	3.4
Benzene	0.078	0.34	0.25	1.1
Toluene	0.031	0.24	0.12	0.92
Ethyl Benzene	0.031	0.034	0.14	0.15
m,p-Xylene	0.063	0.11	0.27	0.48
o-Xylene	0.031	0.042	0.14	0.18
Naphthalene	0.078	0.020 J	0.41	0.11 J

Client Sample ID: BS1

Lab ID#: 1609286B-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.038	0.41	0.19	2.0
Chloromethane	0.096	0.43	0.20	0.88
Carbon Tetrachloride	0.038	0.081	0.24	0.51
Benzene	0.096	0.10	0.30	0.33
Toluene	0.038	0.30	0.14	1.1
Ethyl Benzene	0.038	0.054	0.16	0.23
m,p-Xylene	0.076	0.16	0.33	0.72
o-Xylene	0.038	0.063	0.16	0.27
Naphthalene	0.096	0.033 J	0.50	0.17 J

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Client Sample ID: CS1

Lab ID#: 1609286B-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**v091915sim**	**Date of Collection:**	**9/9/16 12:54:00 PM**
Dil. Factor:	**1.57**	**Date of Analysis:**	**9/19/16 04:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.031	0.42	0.16	2.0
Freon 114	0.031	Not Detected	0.22	Not Detected
Chloromethane	0.078	0.48	0.16	1.0
Vinyl Chloride	0.016	0.11	0.040	0.28
Chloroethane	0.078	Not Detected	0.21	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
Chloroform	0.031	0.057	0.15	0.28
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.031	0.54	0.20	3.4
Benzene	0.078	0.34	0.25	1.1
1,2-Dichloroethane	0.031	Not Detected	0.13	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.24	0.12	0.92
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.031	0.034	0.14	0.15
m,p-Xylene	0.063	0.11	0.27	0.48
o-Xylene	0.031	0.042	0.14	0.18
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.22	Not Detected
1,4-Dichlorobenzene	0.031	Not Detected	0.19	Not Detected
Naphthalene	0.078	0.020 J	0.41	0.11 J

J = Estimated value.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: BS1

Lab ID#: 1609286B-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**v091916sim**	**Date of Collection:**	**9/9/16 12:53:00 PM**
Dil. Factor:	**1.91**	**Date of Analysis:**	**9/19/16 05:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.038	0.41	0.19	2.0
Freon 114	0.038	Not Detected	0.27	Not Detected
Chloromethane	0.096	0.43	0.20	0.88
Vinyl Chloride	0.019	Not Detected	0.049	Not Detected
Chloroethane	0.096	Not Detected	0.25	Not Detected
1,1-Dichloroethene	0.019	Not Detected	0.076	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.76	Not Detected
Methyl tert-butyl ether	0.19	Not Detected	0.69	Not Detected
1,1-Dichloroethane	0.038	Not Detected	0.15	Not Detected
cis-1,2-Dichloroethene	0.038	Not Detected	0.15	Not Detected
Chloroform	0.038	Not Detected	0.19	Not Detected
1,1,1-Trichloroethane	0.038	Not Detected	0.21	Not Detected
Carbon Tetrachloride	0.038	0.081	0.24	0.51
Benzene	0.096	0.10	0.30	0.33
1,2-Dichloroethane	0.038	Not Detected	0.15	Not Detected
Trichloroethene	0.038	Not Detected	0.20	Not Detected
Toluene	0.038	0.30	0.14	1.1
1,1,2-Trichloroethane	0.038	Not Detected	0.21	Not Detected
Tetrachloroethene	0.038	Not Detected	0.26	Not Detected
1,2-Dibromoethane (EDB)	0.038	Not Detected	0.29	Not Detected
Ethyl Benzene	0.038	0.054	0.16	0.23
m,p-Xylene	0.076	0.16	0.33	0.72
o-Xylene	0.038	0.063	0.16	0.27
1,1,2,2-Tetrachloroethane	0.038	Not Detected	0.26	Not Detected
1,4-Dichlorobenzene	0.038	Not Detected	0.23	Not Detected
Naphthalene	0.096	0.033 J	0.50	0.17 J

J = Estimated value.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1609286B-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**v091906sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/19/16 10:16 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Freon 114	0.020	Not Detected	0.14	Not Detected
Chloromethane	0.050	Not Detected	0.10	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Chloroethane	0.050	Not Detected	0.13	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
Naphthalene	0.050	Not Detected	0.26	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: CCV

Lab ID#: 1609286B-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**v091902sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/19/16 07:55 AM**	

Compound	%Recovery
Freon 12	94
Freon 114	94
Chloromethane	90
Vinyl Chloride	91
Chloroethane	94
1,1-Dichloroethene	89
trans-1,2-Dichloroethene	93
Methyl tert-butyl ether	105
1,1-Dichloroethane	94
cis-1,2-Dichloroethene	94
Chloroform	88
1,1,1-Trichloroethane	98
Carbon Tetrachloride	109
Benzene	85
1,2-Dichloroethane	96
Trichloroethene	91
Toluene	95
1,1,2-Trichloroethane	94
Tetrachloroethene	88
1,2-Dibromoethane (EDB)	96
Ethyl Benzene	101
m,p-Xylene	96
o-Xylene	99
1,1,2,2-Tetrachloroethane	89
1,4-Dichlorobenzene	84
Naphthalene	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: LCS

Lab ID#: 1609286B-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**v091903sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/19/16 08:30 AM**	

Compound	%Recovery	Method Limits
Freon 12	93	70-130
Freon 114	95	70-130
Chloromethane	89	70-130
Vinyl Chloride	90	70-130
Chloroethane	99	70-130
1,1-Dichloroethene	85	70-130
trans-1,2-Dichloroethene	94	70-130
Methyl tert-butyl ether	101	70-130
1,1-Dichloroethane	93	70-130
cis-1,2-Dichloroethene	90	70-130
Chloroform	87	70-130
1,1,1-Trichloroethane	97	70-130
Carbon Tetrachloride	110	60-140
Benzene	83	70-130
1,2-Dichloroethane	94	70-130
Trichloroethene	89	70-130
Toluene	93	70-130
1,1,2-Trichloroethane	92	70-130
Tetrachloroethene	86	70-130
1,2-Dibromoethane (EDB)	95	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	95	70-130
o-Xylene	97	70-130
1,1,2,2-Tetrachloroethane	86	70-130
1,4-Dichlorobenzene	80	70-130
Naphthalene	111	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCSD

Lab ID#: 1609286B-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**v091904sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/19/16 09:05 AM**	

Compound	%Recovery	Method Limits
Freon 12	91	70-130
Freon 114	93	70-130
Chloromethane	88	70-130
Vinyl Chloride	88	70-130
Chloroethane	96	70-130
1,1-Dichloroethene	85	70-130
trans-1,2-Dichloroethene	92	70-130
Methyl tert-butyl ether	100	70-130
1,1-Dichloroethane	91	70-130
cis-1,2-Dichloroethene	88	70-130
Chloroform	85	70-130
1,1,1-Trichloroethane	95	70-130
Carbon Tetrachloride	107	60-140
Benzene	80	70-130
1,2-Dichloroethane	89	70-130
Trichloroethene	85	70-130
Toluene	90	70-130
1,1,2-Trichloroethane	90	70-130
Tetrachloroethene	83	70-130
1,2-Dibromoethane (EDB)	92	70-130
Ethyl Benzene	95	70-130
m,p-Xylene	87	70-130
o-Xylene	90	70-130
1,1,2,2-Tetrachloroethane	84	70-130
1,4-Dichlorobenzene	76	70-130
Naphthalene	108	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	93	70-130

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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 Sami Maloob / Ross Tinline

Collected by: (Print and Sign) Ross Tinline

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. #
Project # Salisbury
Project Name 2145 35th Ave, Oakland

Turn Around Time:
☒ Normal
☐ Rush
specify

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

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)	FC #
01A	CS1	N0444	9-8-16 to 9-9-16	1228–1254	TO15 SIM (including	-28.5				20547
02A	BS1	N0617	9-8-16 to 9-9-16	1232–1253	benzene, ethylbenzene, naphthalene)	28.5				40176
03A	SS2 *	IL2792	9-8-16	1537–1544	TO3 for TPHg	29.55	4.50			449
04A	SS1 *	36463	9-8-16	1619–1625	ASTM D1946 for	29.53	4.14			349
05A	SS1R *	IL2750	9-8-16	1636–1643	O_2, Nitrogen, CO_2 & methane	29.51	4.60			349
	[redacted]									
06A	SS1 (IPA)	5526	9-8-16	1620–1625	TO15 5220 for Isopropyl	27	-7			449

V.V 9/14/16

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
for [illegible]	9-9-16 1520	Andrea Augusti EATL	9/9/16 1520
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
* also perform isopropyl alcohol on soil vapor samples (which are not SIM).
Global ID T0619778840
Detection limits below ESL's as possible.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	HD		NA	Good	Yes No None	1609286

Form 1293 rev.11

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9/22/2016
Mr. Ross Tinline
SVC Environmental, Inc.
11 Kenton Ave

San Carlos CA 94070

Project Name: 2145 35th Ave, Oakland
Project #: salisbury
Workorder #: 1609286E

Dear Mr. Ross Tinline

The following report includes the data for the above referenced project for sample(s) received on 9/9/2016 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 Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1609286E

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. #**	
FAX:		**PROJECT #**	salisbury 2145 35th Ave, Oakland
DATE RECEIVED:	09/09/2016	**CONTACT:**	Ausha Scott
DATE COMPLETED:	09/22/2016		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
03A	SS2	Modified ASTM D-1946	3.5 "Hg	14.6 psi
04A	SS1	Modified ASTM D-1946	3.9 "Hg	14.7 psi
05A	SS1R	Modified ASTM D-1946	4.5 "Hg	14.7 psi
06A	Lab Blank	Modified ASTM D-1946	NA	NA
07A	LCS	Modified ASTM D-1946	NA	NA
07AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 09/22/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
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 - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
SVC Environmental, Inc.
Workorder# 1609286E

Three 1 Liter Summa Canister samples were received on September 09, 2016. 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 EATL 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

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

Client Sample ID: SS2

Lab ID#: 1609286E-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	20
Nitrogen	0.22	80
Carbon Dioxide	0.022	0.084

Client Sample ID: SS1

Lab ID#: 1609286E-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	20
Nitrogen	0.23	80
Carbon Dioxide	0.023	0.18

Client Sample ID: SS1R

Lab ID#: 1609286E-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	20
Nitrogen	0.24	80
Carbon Dioxide	0.024	0.18

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Client Sample ID: SS2

Lab ID#: 1609286E-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10091912**	**Date of Collection: 9/8/16 3:44:00 PM**	
Dil. Factor:	**2.25**	**Date of Analysis: 9/19/16 12:56 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	20
Nitrogen	0.22	80
Methane	0.00022	Not Detected
Carbon Dioxide	0.022	0.084

Container Type: 1 Liter Summa Canister

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Client Sample ID: SS1

Lab ID#: 1609286E-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10091913**	**Date of Collection: 9/8/16 4:25:00 PM**	
Dil. Factor:	**2.30**	**Date of Analysis: 9/19/16 01:44 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	20
Nitrogen	0.23	80
Methane	0.00023	Not Detected
Carbon Dioxide	0.023	0.18

Container Type: 1 Liter Summa Canister

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Client Sample ID: SS1R

Lab ID#: 1609286E-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10091914**	**Date of Collection: 9/8/16 4:43:00 PM**	
Dil. Factor:	**2.35**	**Date of Analysis: 9/19/16 02:13 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	20
Nitrogen	0.24	80
Methane	0.00024	Not Detected
Carbon Dioxide	0.024	0.18

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1609286E-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10091904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/19/16 09:27 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#: 1609286E-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10091902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/19/16 08:28 AM**	

Compound	%Recovery	Method Limits
Oxygen	97	85-115
Nitrogen	94	85-115
Methane	102	85-115
Carbon Dioxide	102	85-115

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1609286E-07AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10091926**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/19/16 07:41 PM**	

Compound	%Recovery	Method Limits
Oxygen	98	85-115
Nitrogen	94	85-115
Methane	101	85-115
Carbon Dioxide	102	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 Sami Malaeb / Ross Tinline
Collected by: (Print and Sign) Ross Tinline
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. #
Project # Salisbury
Project Name 2145 35th Ave, Oakland

Turn Around Time:
☒ Normal
☐ Rush
specify

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

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	CS1	N0444	9-8-16 to 9-9-16	1228 – 1254	TO15 SIM (including	-28.5				20547
02A	BS1	N0617	9-8-16 to 9-9-16	1232 – 1253	benzene, ethylbenzene,	-28.5				40176
					naphthalene)					
03A	SS2 *	IL2792	9-8-16	1537 – 1544	TO3 for TPHg	29.55	4.50			449
04A	SS1 *	36463	9-8-16	1619 – 1625	ASTM D1946 for	29.53	4.14			349
05A	SS1R *	IL2750	9-8-16	1636 – 1643	O_2, Nitrogen, CO_2	29.51	4.60			349
					& methane					
06A	SS1 (IPA)	5526	9-8-16	1620 – 1625	TO15 5420 for 2propanol	27	-7			449

FC #

V.V 9/14/16

V.V 9/16/16

Relinquished by: (signature) Date/Time
for 9-9-16 1520
Relinquished by: (signature) Date/Time
Relinquished by: (signature) Date/Time

Received by: (signature) Date/Time
Andrea Augusti EATL 9/9/16 1520
Received by: (signature) Date/Time
Received by: (signature) Date/Time

Notes:
* also perform isopropyl alcohol on soil vapor samples (which are not SIM).
Global ID T0619778840
Detection limits below ESL's as possible.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	HD		NA	Good	Yes No None	1609286

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10/11/2016
Mr. Ross Tinline
SVC Environmental, Inc.
11 Kenton Ave

San Carlos CA 94070

Project Name: 2145 35th Ave, Oakland
Project #: Salisbury
Workorder #: 1610051A

Dear Mr. Ross Tinline

The following report includes the data for the above referenced project for sample(s) received on 10/4/2016 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 Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1610051A

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. #**	
FAX:		**PROJECT #**	Salisbury 2145 35th Ave, Oakland
DATE RECEIVED:	10/04/2016	**CONTACT:**	Ausha Scott
DATE COMPLETED:	10/11/2016		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	CS1	Modified TO-3	8.2 "Hg	4.6 psi
02A	BS1	Modified TO-3	6.7 "Hg	5.1 psi
03A	Lab Blank	Modified TO-3	NA	NA
04A	LCS	Modified TO-3	NA	NA
04AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 10/11/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
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 - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
SVC Environmental, Inc.
Workorder# 1610051A

Two 6 Liter Summa Canister samples were received on October 04, 2016. 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 EATL 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

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

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

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

Client Sample ID: CS1

Lab ID#: 1610051A-01A

No Detections Were Found.

Client Sample ID: BS1

Lab ID#: 1610051A-02A

No Detections Were Found.

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Client Sample ID: CS1

Lab ID#: 1610051A-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d101004**	**Date of Collection: 10/1/16 1:12:00 PM**	
Dil. Factor:	**1.80**	**Date of Analysis: 10/10/16 12:26 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.045	0.18	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

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

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Client Sample ID: BS1

Lab ID#: 1610051A-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d101005**	**Date of Collection: 10/1/16 1:06:00 PM**	
Dil. Factor:	**1.74**	**Date of Analysis: 10/10/16 12:58 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.044	0.18	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	94	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1610051A-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d101003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/10/16 09:25 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)	94	75-150

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Client Sample ID: LCS

Lab ID#: 1610051A-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d101002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/10/16 08:42 AM**	

Compound	%Recovery	Method Limits
TPH (Gasoline Range)	92	75-125

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	103	75-150

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Client Sample ID: LCSD

Lab ID#: 1610051A-04AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d101006**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/10/16 02:30 PM**	

Compound	%Recovery	Method Limits
TPH (Gasoline Range)	91	75-125

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	101	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: Sami Malaeb/Ross Tinline
Collected by: (Print and Sign) Ross Tinline [signature]
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. #:
Project #: Salisbury
Project Name: 2145 35th Ave Oakland

Turn Around Time:
☐ Normal
☐ Rush
specify

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

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)	FC #
01A	CS1	N0852	9-30-16 to 10-1-16	1338 1312	TO3 for TPHg AND	29.8	-8.5			40072
02A	BS1	00138	9-30-16 to 10-1-16	1332-1306	ASTM D1946 for	-29.8	-6.7			4077
					O_2, Nitrogen, CO_2					
					& Methane					

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	10/3/16 1430	FedEx	10/3/16 1430
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		[signature] EATL	10/4/16 12:10
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
Global ID
T0619778840

1610051

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		N/A	good	Yes No (None)	~~161~~0051 VN 10/4/16

Form 1293 rev.11

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10/11/2016
Mr. Ross Tinline
SVC Environmental, Inc.
11 Kenton Ave

San Carlos CA 94070

Project Name: 2145 35th Ave, Oakland
Project #: Salisbury
Workorder #: 1610051B

Dear Mr. Ross Tinline

The following report includes the data for the above referenced project for sample(s) received on 10/4/2016 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 Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1610051B

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. #**	
FAX:		**PROJECT #**	Salisbury 2145 35th Ave, Oakland
DATE RECEIVED:	10/04/2016	**CONTACT:**	Ausha Scott
DATE COMPLETED:	10/11/2016		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	CS1	Modified ASTM D-1946	8.2 "Hg	4.6 psi
02A	BS1	Modified ASTM D-1946	6.7 "Hg	5.1 psi
03A	Lab Blank	Modified ASTM D-1946	NA	NA
04A	LCS	Modified ASTM D-1946	NA	NA
04AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 10/11/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
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 - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
SVC Environmental, Inc.
Workorder# 1610051B

Two 6 Liter Summa Canister samples were received on October 04, 2016. 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 EATL 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

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

Client Sample ID: CS1

Lab ID#: 1610051B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.18	21
Nitrogen	0.18	79
Methane	0.00018	0.00030
Carbon Dioxide	0.018	0.046

Client Sample ID: BS1

Lab ID#: 1610051B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.17	21
Nitrogen	0.17	79
Methane	0.00017	0.00020
Carbon Dioxide	0.017	0.046

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Client Sample ID: CS1

Lab ID#: 1610051B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101013**	**Date of Collection: 10/1/16 1:12:00 PM**	
Dil. Factor:	**1.80**	**Date of Analysis: 10/10/16 02:30 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.18	21
Nitrogen	0.18	79
Methane	0.00018	0.00030
Carbon Dioxide	0.018	0.046

Container Type: 6 Liter Summa Canister

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Client Sample ID: BS1

Lab ID#: 1610051B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101014**	**Date of Collection: 10/1/16 1:06:00 PM**	
Dil. Factor:	**1.74**	**Date of Analysis: 10/10/16 02:52 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.17	21
Nitrogen	0.17	79
Methane	0.00017	0.00020
Carbon Dioxide	0.017	0.046

Container Type: 6 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1610051B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/10/16 09:21 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#: 1610051B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/10/16 08:34 AM**	

Compound	%Recovery	Method Limits
Oxygen	98	85-115
Nitrogen	94	85-115
Methane	103	85-115
Carbon Dioxide	102	85-115

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1610051B-04AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101025**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/10/16 08:04 PM**	

Compound	%Recovery	Method Limits
Oxygen	98	85-115
Nitrogen	94	85-115
Methane	100	85-115
Carbon Dioxide	102	85-115

Container Type: NA - Not Applicable

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Sample Transportation Notice

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

Project Manager: Sami Malaeb / Ross Tinline
Collected by: (Print and Sign) Ross Tinline [signature]
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. #
Project #: Salisbury
Project Name: 2145 35th Ave Oakland

Turn Around Time:
☐ Normal
☐ Rush
specify

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

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)	FC #
01A	CS1	N0852	9-30-16 to 10-1-16	1338 to 1312	TO3 for TPHg AND	29.8	-8.5			40072
02A	BS1	00138	9-30-16 to 10-1-16	1332 - 1306	ASTM D1946 for	-29.8	-6.7			4077
					O_2, Nitrogen, CO_2					
					& Methane					

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	10/3/16 1430	FedEx	10/3/16 1430
		[signature] EATL	10/4/16 12:10

Notes:
Global ID
T0619778840

1610051

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		N/A	good	Yes No (None)	~~1610050~~ VN 10/4/16

Form 1293 rev.11