# DRAFT
# INDOOR AIR SAMPLING REPORT

## MARYLAND SQUARE PCE Site
## 3661 SOUTH MARYLAND PARKWAY
## LAS VEGAS, NEVADA

**SUBMITTED TO**
NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
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November 16, 2012

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# 1.0 INTRODUCTION

The Maryland Square Tetrachloroethene (PCE) Site (is located east of the Strip in downtown Las Vegas, Nevada. The Site contains a PCE plume that extends from the location of the former Al Phillips the Cleaners (APTC), in the former Maryland Square Shopping Center at 3661 South Maryland Parkway, to more than 4,000 feet east (downgradient), just east of Eastern Avenue. The central area of the plume is beneath the Paradise Palms residential neighborhood.

In 2007, an investigation evaluated the potential for PCE to volatilize from the shallow groundwater water and migrate into homes that overlie groundwater containing PCE (URS 2007). The maximum PCE soil vapor concentration detected at the top of the groundwater table was 170,000 micrograms per cubic meter (µg/$m^3$). In response, the Nevada Division of Environmental Protection (NDEP) sampled indoor air in 97 homes and two schools between fall 2007 and winter 2007-2008.

Indoor air in 15 of the 97 homes sampled had PCE concentrations greater than the NDEP interim-action level of 32 µg/$m^3$ (Broadbent 2010). Sub-slab depressurization (SSD) systems were installed at 14 of these homes. After SSD system installation, indoor air in the homes was retested to ensure that the PCE vapor concentrations were below the interim action level. If PCE concentrations in indoor air remained above the interim action level, performance testing was conducted and the SSD systems were modified. Subsequent sampling confirmed that all homes with SSD systems exhibited PCE concentrations less than 32 µg/$m^3$ in indoor air (Broadbent 2010).

On December 27, 2010, the U.S. District Court, District of Nevada, issued a Permanent Injunction that mandates that homeowners with property that is on or within the 100 microgram per liter (µg/L) groundwater PCE concentration contour be offered annual indoor air sampling (U.S. District Court 2010). Homes that are found to have PCE in indoor at concentrations exceeding the NDEP interim action level of 32 µg/$m^3$ are to be offered mitigation systems to decrease PCE concentrations in indoor air below the interim action level.

In compliance with the Permanent Injunction, the Herman Kishner Trust contracted with Tetra Tech EM, Inc. (Tetra Tech) to conduct the indoor air sampling. Tetra Tech prepared the *Work Plan for Mitigation of Indoor Air and Well Water* (Tetra Tech 2011a) and the *Addendum to the Work Plan for Mitigation of Indoor Air and Well Water* (Tetra Tech 2011b), which were approved by NDEP on August 23, 2011. Indoor air sampling was conducted in February and April 2012. This report documents these indoor air sampling activities and results.

# 2.0 SELECTION OF HOMES

Homes were selected for indoor air sampling by overlaying the most recent groundwater contour map (January 2012) on the Assessor's Parcel Number (APN) maps for the Paradise Palms neighborhood and identifying parcels that lay within the 100 µg/L contour. Figure 2-1 presents the 100 µg/L groundwater PCE contour on a merged map with the parcels. Indoor air sampling was offered to any homeowner whose property lay partially or wholly within the 100 µg/L contour.

# 3.0 RESIDENT NOTIFICATION

Tetra Tech teamed with NDEP to develop an acceptable protocol for offering eligible residents indoor air sampling.

## 3.1 Mailing

On February 2, 2012, Tetra Tech mailed notification packages to 103 homeowners. The notification packages consisted of a letter and an access agreement that had been approved by NDEP. The letter provided information about the upcoming indoor air sampling event that would be offered to homeowners whose property may be affected by the PCE groundwater plume. The letter explained that the work would consist of three phases including: (1) in-home surveys; (2) indoor air grab sampling; and (3) indoor air SUMMA canister sampling (Appendix A). However, due to limited homeowner response, the work was later optimized to only include in-home surveys and SUMMA canister sampling. The homeowners were asked to sign the access agreement and return it to Tetra Tech if they chose to participate in the indoor air sampling. The access agreement allowed Tetra Tech staff to enter the home to conduct the in-home survey and conduct the air sampling. NDEP separately sent each of the 103 homeowners an NDEP issued access agreement to allow NDEP staff to enter the home.

## 3.2 Response and Subsequent Contact

Of the 103 homeowners sent a notification package, a total of 41 responded either to Tetra Tech, to NDEP, or to both (Table 3-1). After receiving the signed access agreements, Tetra Tech called homeowners to schedule appointments to complete the in-home surveys and indoor air sampling. Because of the limited interest in participating in the sampling program, the indoor air grab sampling phase of the program was eliminated and all homes were sampled using SUMMA canisters. The final schedule included two separate rounds of sampling, both consisting of in-home surveys and SUMMA canister sampling.

While 40 homeowners responded by electing to participate in the indoor air sampling, only 34 homes were successfully scheduled to complete both the in-home surveys and sampling. The other six homes were unreachable in all attempts to contact the homeowner, and therefore, were not included in this year's sampling program. Two of the 34 homes were not sampled: one due to the presence of indoor sources of volatile organic compounds (VOCs) and the other due to a missed appointment. In some circumstances multiple follow-up contacts was required with each homeowner who elected to participate in order to coordinate scheduling for the indoor air sampling.

**Table 3-1**
**Resident Notification and Response Summary**

| | |
|---|---|
| Homes mailed notification package | 103 |
| Residents who responded to notification package | 41 |
| Number of residents electing to participate in sampling | 40 |
| Residents who scheduled appointments | 34 |
| Homes sampled during 2012 annual sampling program[1] | 32 |

**Note:**
1 – The number of homes sampled does not match number of homes scheduled because one home contained potential volatile organic compound sources and another was not home at the time of their appointment.

## 3.3 Final List of Residents

In order to ensure confidentiality, each homeowner that was contacted was assigned a random four-digit identification number, which was used for sample identification. Table 3-2 lists the 41 residences that responded and summarizes the outcome.

- Table 3-2 Final List of Residents Contacted for Sampling

-

| Identification # | Contacted Tt/NDEP/Both | Requested Sampling (Y/N) | Outcome | Sampling Round |
|---|---|---|---|---|
| 4691 | Both | Y | Sampled | 1 |
| 2498 | Both | Y | Sampled | 1 |
| 3787 | Both | Y | Sampled | 1 |
| 4263 | Both | Y | Sampled | 1 |
| 1278 | NDEP | Y | Sampled | 1 |
| 3029 | NDEP | Y | Sampled | 1 |
| 2838 | NDEP | Y | Sampled | 1 |
| 4638 | Both | Y | Sampled | 1 |
| 2301 | NDEP | Y | Sampled | 1 |
| 4721 | Both | Y | Sampled | 1 |
| 4523 | NDEP | Y | Sampled | 1 |
| 3987 | NDEP | Y | Sampled | 1 |
| 4129 | NDEP | Y | Sampled | 1 |
| 2093 | NDEP | Y | Sampled | 1 |
| 3330 | NDEP | Y | Sampled | 1 |
| 3882 | Both | Y | Sampled | 1 |
| 1553 | Both | Y | Sampled | 1 |
| 1643 | Both | Y | Sampled | 1 |
| 4774 | NDEP | Y | Sampled | 1 |
| 1106 | NDEP | Y | Sampled | 1 |
| 3253 | NDEP | Y | Sampled | 1 |
| 1501 | NDEP | Y | Sampled | 1 |
| 4728 | Both | Y | Sampled | 1 |
| 2124 | NDEP | Y | Sampled | 2 |
| 3313 | Tt | Y | Sampled | 2 |
| 2759 | Tt | Y | Sampled | 2 |
| 3939 | NDEP | Y | Sampled | 2 |
| 2681 | NDEP | Y | Sampled | 2 |
| 3770 | NDEP | Y | Sampled | 2 |
| 4878 | Both | Y | Sampled | 2 |
| 1028 | Tt | Y | Sampled | 2 |
| 1567 | Both | Y | Sampled | 2 |
| 4363 | Tt | Y | Not Sampled[1] | NA |
| 3551 | NDEP | Y | Not Sampled[2] | NA |
| 4488 | NDEP | Y | Not Sampled[3] | NA |

| Identification # | Contacted Tt/NDEP/Both | Requested Sampling (Y/N) | Outcome | Sampling Round |
|---|---|---|---|---|
| 1557 | Both | Y | Not Sampled[3] | NA |
| 3791 | NDEP | Y | Not Sampled[3] | NA |
| 4324 | NDEP | Y | Not Sampled[3] | NA |
| 1716 | NDEP | Y | Not Sampled[3] | NA |
| 4851 | NDEP | Y | Not Sampled[3] | NA |
| 1121 | NDEP | N | Not Sampled[3] | NA |

**Notes:**

1 – Homeowner could not remove all potential sources of VOCs prior to sampling, and opted out of this year's annual indoor air sampling.

2 – Homeowner did not show up to meet Tetra Tech and NDEP staff at the schedule date and time to conduct indoor air sampling.

3 – Homeowner could not be reached by Tetra Tech or NDEP in order to schedule a date and time to collect indoor air .samples.

# 4.0 SAMPLING AND ANALYSIS

Tetra Tech conducted the indoor air sampling in accordance with the *Work Plan for Mitigation of Indoor Air and Well Water* dated June 28, 2011 and the *Addendum to the Work Plan for Mitigation of Indoor Air and Well Water* dated August 15, 2011. NDEP provided oversight of the in-home surveys and indoor air sampling with SUMMA canisters.

The indoor air sampling started with an in-home survey followed by SUMMA canister sampling. The in-home surveys involved completing a questionnaire with the homeowners and conducting a walkthrough of the home to assess any potential sources of VOCs prior to sampling. If a potential source was identified the homeowner was asked to remove it from the house 24 hours prior to sampling. Assuming no issues were observed during the in-home surveys, Tetra Tech used SUMMA canisters to collect a time-integrated sample of indoor air over a 24-hour sampling period. In addition, during each 24-hour sampling period, a SUMMA canister was placed outside and upwind of the general area to collect a background sample used to monitor for any possible VOCs present in the atmosphere. The samples were analyzed for PCE, trichloroethene (TCE), *cis*-1,2-dichloroethene (DCE), *trans*-1,2-DCE, and vinyl chloride using Environmental Protection Agency (EPA) method TO-15 in single ion monitoring (SIM) mode. The sample analyses were performed by Air Toxics LTD, located in Folsom, California. For quality control purposes, duplicate samples were collected at a rate over 10 percent.

The first round of in-home surveys was conducted between February 16 and 20, 2012, and the first round of SUMMA canister sampling was conducted between February 25 and 29, 2012. The second round of in-home surveys and SUMMA canister sampling took place between April 24 and 26, 2012.

## 4.1 Sampling Round 1

Twenty-four homes were scheduled to participate in the first round of indoor air sampling. Between February 16 and 20, 2012, 17 of the 24 homes completed the in-home surveys. The remainder of the in-home surveys was completed between February 25 and 29, 2012.

Following the completion of the in-home surveys, Tetra Tech conducted SUMMA canister sampling to collect time-integrated 24-hour indoor air samples from each of the homes. Twenty-three of the originally 24 scheduled homes were sampled for indoor air between February 25 and 29, 2012. At all but one of the homes, samples were collected from a single location. One home had multiple level slab foundations on

the ground floor and required two sampling points. Four background samples and three duplicate samples were collected during this sampling event.

Two homes that were scheduled for sampling during Round 1 were not sampled during this round. One homeowner who completed an in-home survey between February 16 and 20, 2012, did not meet for the scheduled date and time to conduct the SUMMA canister sampling. All subsequent efforts to reach the homeowner were unsuccessful. Another home was originally scheduled for SUMMA canister sampling during Round 1 but during the in-home surveys it was discovered that the homeowner had removed a section of the concrete slab foundation for repairs. The homeowner was requested to inform Tetra Tech and/or NDEP when the repairs were completed so sampling could be completed. After the repairs were finished the homeowner contacted Tetra Tech, and the home was scheduled for Round 2.

## 4.2 Sampling Round 2

The second round of in-home surveys and indoor air sampling was completed in one mobilization between April 24 and 26, 2012, with in-home surveys taking place prior to SUMMA canister sampling. Ten homes were included. Incorporated in these ten homes was the one home from the previous indoor air sampling round that required repairs to the concrete slab foundation.

As done during the first round of sampling, following the completion of the in-home survey, Tetra Tech completed SUMMA canister sampling to collect time-integrated 24-hour indoor air samples from nine of the 10 homes originally scheduled. One background sample and two duplicate samples were collected during the second round of indoor air sampling.

Only nine of the original ten scheduled homes were sampled because during the in-home survey one the homes was undergoing renovations and contained cleaning and construction equipment that could have been a source of VOCs in indoor air. The homeowner decided it would not be practical to remove all potential VOC sources prior to the sampling. Tetra Tech and NDEP made it clear to the homeowner that sampling would be offered annually, and therefore, the homeowner opted out of the 2012 indoor air sampling.

One household was vacant and the homeowner resides out of State; therefore, an in-home survey was not completed. Upon arrival at this home to conduct the SUMMA canister sampling, a 55-gallon drum labeled as "140 Solvent" was discovered inside the home. The "140 Solvent" was determined to be a petroleum-based solvent, and therefore an indoor air sample was collected despite the presence of the drum.

**Table 4-1**
**SUMMA Canister Sampling Schedule**

| Sampling Event | Dates of Sampling | Sample Collection Summary | |
|---|---|---|---|
| | | # of Homes Scheduled for Sampling | # of Homes Actually Sampled |
| Round 1 | February 25-29, 2012 | 24 | 23 |
| Round 2 | April 24-26, 2012 | 10 | 9 |

## 5.0 INDOOR AIR SAMPLING RESULTS

A total of 43 SUMMA canister samples (31 from Round 1 and 12 from Round 2) were collected and all were analyzed using TO-15 SIM by Air Toxics LTD. The results are shown in Table 5-1. Of the 32 homes sampled, PCE was:

- not detected in one home,
- detected at concentrations below the interim-action level in samples from 28 of the homes, and
- detected at concentrations above the interim action level in three homes .

Trace concentrations of TCE were detected in two homes, and a trace concentration of vinyl chloride was detected in one home. *Cis*-1,2-DCE and *trans*-1,2-DCE were not detected in any of the indoor air samples.

Result packages were sent via mail to all of the homes sampled. The packages consisted of:

- a letter summarizing the sampling results for the home (Appendix B),
- the full laboratory report for that home (Appendix C),
- the chain of custody (COC) for that home (Appendix D),
- the original Tetra Tech access agreement (Appendix A), and
- an acknowledgment form offering the sub-slab depressurization system for the three homes that exceeded the interim-action level (Appendix E).

## 6.0 SUMMARY

Indoor air sampling was offered to 103 homes in the Paradise Palms neighborhood. Upon completion of the 2012 annual indoor air sampling program, a total of 32 homes completed an in-home survey and were sampled for PCE TCE, *Cis*-1,2-DCE, *trans*-1,2-DCE, and vinyl chloride with a SUMMA canister.

Indoor air samples from three homes contained PCE at concentrations exceeding the interim-action level of 32 µg/$m^3$. The owners of these three homes were offered SSD systems to mitigate vapor intrusion at no installation cost to the homeowner. Two of the three homeowners have accepted the offer of an SSD system (Appendix E). As of November 2012, one owner has not returned an acknowledgment form.

## 7.0 REFERENCES


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URS Corporation (URS). 2007. *Report of Off-Site Soil Vapor Assessment, Former Al Phillips Facility, Maryland Square Shopping Center, 3661 Maryland Parkway, Las Vegas, Nevada*. April.

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# TABLES

**Table 5-1**
**Sampling Results**
**EPA Method TO-15 SIM (µg/m$^3$)**
**Maryland Square PCE Site**
**Las Vegas, Nevada**

| Sample ID | IA-2838 | | IA-4263 | | IA-2498 | | IA-4691 | | IA-3029 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Collection Date | 26-Feb-12 | | 26-Feb-12 | | 26-Feb-12 | | 26-Feb-12 | | 26-Feb-12 | |
| **Analyte** | **RL** | **Result** | **RL** | **Result** | **RL** | **Result** | **RL** | **Result** | **RL** | **Result** |
| PCE | 0.26 | 0.63 | 0.25 | 0.36 | 0.26 | 1.2 | 0.26 | 29 | 0.25 | 8.3 |
| TCE | 0.21 | 0.21 U | 0.2 | 0.2 U | 0.21 | 0.21 U | 0.2 | 0.2 U | 0.2 | 0.2 U |
| *cis* -1,2-DCE | 0.16 | 0.16 U | 0.15 | 0.15 U | 0.16 | 0.16 U | 0.15 | 0.15 U | 0.15 | 0.15 U |
| *trans* -1,2-DCE | 0.78 | 0.78 U | 0.74 | 0.74 U | 0.78 | 0.78 U | 0.76 | 0.76 U | 0.74 | 0.74 U |
| Vinyl chloride | 0.05 | 0.05 U | 0.048 | 0.048 U | 0.05 | 0.05 U | 0.049 | 0.049 U | 0.048 | 0.048 U |

| Sample ID | IA-4638 | | IA-1278 | | IA-3787-1 | | IA-DUP1 (IA-3787-1D) | | IA-3787-2 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Collection Date | 26-Feb-12 | | 26-Feb-12 | | 26-Feb-12 | | 26-Feb-12 | | 26-Feb-12 | |
| **Analyte** | **RL** | **Result** | **RL** | **Result** | **RL** | **Result** | **RL** | **Result** | **RL** | **Result** |
| PCE | 0.27 | 0.27 U | 0.25 | 13 | 0.28 | 1.8 | 0.27 | 1.8 | 0.27 | 1.9 |
| TCE | 0.22 | 0.22 U | 0.2 | 0.2 U | 0.22 | 0.22 U | 0.22 | 0.22 U | 0.22 | 0.22 U |
| *cis* -1,2-DCE | 0.16 | 0.16 U | 0.15 | 0.15 U | 0.16 | 0.16 U | 0.16 | 0.16 U | 0.16 | 0.16 U |
| *trans* -1,2-DCE | 0.8 | 0.8 U | 0.74 | 0.74 U | 0.82 | 0.82 U | 0.8 | 0.8 U | 0.8 | 0.8 U |
| Vinyl chloride | 0.051 | 0.051 U | 0.048 | 0.048 U | 0.053 | 0.053 U | 0.051 | 0.051 U | 0.051 | 0.051 U |

| Sample ID | IA-4721 | | IA-DUP2 (IA-4721D) | | IA-4728 | | IA-2301 | |
|---|---|---|---|---|---|---|---|---|
| Collection Date | 27-Feb-12 | | 27-Feb-12 | | 27-Feb-12 | | 27-Feb-12 | |
| **Analyte** | **RL** | **Result** | **RL** | **Result** | **RL** | **Result** | **RL** | **Result** |
| PCE | 0.25 | 5.9 | 0.25 | 5.9 | 0.26 | 2.1 | 0.25 | 2.6 |
| TCE | 0.2 | 0.2 U | 0.2 | 0.2 U | 0.2 | 0.2 U | 0.2 | 0.2 U |
| *cis* -1,2-DCE | 0.15 | 0.15 U | 0.15 | 0.15 U | 0.15 | 0.15 U | 0.14 | 0.14 U |
| *trans* -1,2-DCE | 0.74 | 0.74 U | 0.74 | 0.74 U | 0.76 | 0.76 U | 0.72 | 0.72 U |
| Vinyl chloride | 0.048 | 0.048 U | 0.048 | 0.048 U | 0.049 | 0.049 U | 0.047 | 0.047 U |

**Table 5-1**
**Sampling Results**
**EPA Method TO-15 SIM (µg/m$^3$)**
**Maryland Square PCE Site**
**Las Vegas, Nevada**

| Sample ID | IA-3987 | | | IA-4129 | | | IA-4523 | | | IA-2093 | | | IA-3882 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Collection Date | 28-Feb-12 | | | 28-Feb-12 | | | 28-Feb-12 | | | 28-Feb-12 | | | 28-Feb-12 | | |
| **Analyte** | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | |
| PCE | 0.25 | 5.3 | | 0.23 | 2.4 | | 0.25 | 1.7 | | 0.26 | 4.1 | | 0.26 | 39 | |
| TCE | 0.2 | 0.2 | U | 0.18 | 0.18 | U | 0.2 | 0.2 | U | 0.21 | 0.21 | U | 0.21 | 0.21 | U |
| *cis* -1,2-DCE | 0.15 | 0.15 | U | 0.14 | 0.14 | U | 0.15 | 0.15 | U | 0.16 | 0.16 | U | 0.16 | 0.16 | U |
| *trans* -1,2-DCE | 0.74 | 0.74 | U | 0.68 | 0.68 | U | 0.74 | 0.74 | U | 0.78 | 0.78 | U | 0.78 | 0.78 | U |
| Vinyl chloride | 0.048 | 0.048 | U | 0.044 | 0.044 | U | 0.048 | 0.048 | U | 0.05 | 0.05 | U | 0.05 | 0.05 | U |

| Sample ID | IA-1553 | | | IA-3330 | | | IA-1643 | | | IA-4774 | | | IA-1106 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Collection Date | 28-Feb-12 | | | 28-Feb-12 | | | 29-Feb-12 | | | 29-Feb-12 | | | 29-Feb-12 | | |
| **Analyte** | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | |
| PCE | 0.26 | 7.0 | | 0.21 | 3.4 | | 0.24 | 8.3 | | 0.26 | 11 | | 0.26 | 3.7 | |
| TCE | 0.2 | 0.2 | U | 0.17 | 0.17 | U | 0.19 | 0.19 | U | 0.21 | 0.31 | | 0.21 | 0.21 | U |
| *cis* -1,2-DCE | 0.15 | 0.15 | U | 0.12 | 0.12 | U | 0.14 | 0.14 | U | 0.16 | 0.16 | U | 0.16 | 0.16 | U |
| *trans* -1,2-DCE | 0.76 | 0.76 | U | 0.63 | 0.63 | U | 0.71 | 0.71 | U | 0.78 | 0.78 | U | 0.78 | 0.78 | U |
| Vinyl chloride | 0.049 | 0.049 | U | 0.04 | 0.04 | U | 0.046 | 0.046 | U | 0.05 | 0.05 | U | 0.05 | 0.05 | U |

| Sample ID | IA-3253 | | | IA-1501 | | | IA-DUP3 (IA-1501D) | | |
|---|---|---|---|---|---|---|---|---|---|
| Collection Date | 29-Feb-12 | | | 29-Feb-12 | | | 29-Feb-12 | | |
| **Analyte** | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | |
| PCE | 0.25 | 2.5 | | 0.25 | 5.5 | | 0.29 | 7.0 | |
| TCE | 0.2 | 0.2 | U | 0.2 | 0.2 | U | 0.23 | 0.23 | U |
| *cis* -1,2-DCE | 0.14 | 0.14 | U | 0.14 | 0.14 | U | 0.17 | 0.17 | U |
| *trans* -1,2-DCE | 0.72 | 0.72 | U | 0.72 | 0.72 | U | 0.84 | 0.84 | U |
| Vinyl chloride | 0.047 | 0.047 | U | 0.047 | 0.047 | U | 0.054 | 0.054 | U |

| Sample ID | Background-022512 | | | Background-022612 | | | Background-022712 | | | Background-022812 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Collection Date | 26-Feb-12 | | | 27-Feb-12 | | | 28-Feb-12 | | | 29-Feb-12 | | |
| **Analyte** | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | |
| PCE | 0.25 | 0.25 | U | 0.24 | 0.69 | | 0.21 | 0.21 | U | 0.23 | 0.23 | U |
| TCE | 0.2 | 0.2 | U | 0.19 | 0.19 | U | 0.17 | 0.17 | U | 0.18 | 0.18 | U |
| *cis* -1,2-DCE | 0.15 | 0.15 | U | 0.14 | 0.14 | U | 0.12 | 0.12 | U | 0.13 | 0.13 | U |
| *trans* -1,2-DCE | 0.74 | 0.74 | U | 0.69 | 0.69 | U | 0.63 | 0.63 | U | 0.67 | 0.67 | U |
| Vinyl chloride | 0.048 | 0.048 | U | 0.045 | 0.045 | U | 0.04 | 0.04 | U | 0.043 | 0.043 | U |

**Table 5-1**
**Sampling Results**
**EPA Method TO-15 SIM (µg/m$^3$)**
**Maryland Square PCE Site**
**Las Vegas, Nevada**

| Sample ID | IA-3939 | | | IA-1028 | | | IA-4878 | | | IA-DUP1 (IA-4878D) | | | IA-1567 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Collection Date | 26-Apr-12 | | | 26-Apr-12 | | | 26-Apr-12 | | | 26-Apr-12 | | | 26-Apr-12 | | |
| **Analyte** | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | |
| PCE | 0.25 | 5.7 | | 0.26 | 0.44 | | 0.28 | 14 | | 0.27 | 14 | | 0.28 | 49 | |
| TCE | 0.2 | 0.2 | U | 0.21 | 0.21 | U | 0.22 | 0.22 | U | 0.22 | 0.22 | U | 0.22 | 0.22 | U |
| *cis* -1,2-DCE | 0.14 | 0.14 | U | 0.16 | 0.16 | U | 0.16 | 0.16 | U | 0.16 | 0.16 | U | 0.16 | 0.16 | U |
| *trans* -1,2-DCE | 0.72 | 0.72 | U | 0.78 | 0.78 | U | 0.82 | 0.82 | U | 0.8 | 0.8 | U | 0.82 | 0.82 | U |
| Vinyl chloride | 0.047 | 0.047 | U | 0.05 | 0.05 | U | 0.053 | 0.053 | U | 0.051 | 0.051 | U | 0.053 | 0.053 | U |

| Sample ID | IA-3313 | | | IA-2759 | | | IA-2681 | | | IA-2124 | | | IA-3770 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Collection Date | 26-Apr-12 | | | 26-Apr-12 | | | 26-Apr-12 | | | 26-Apr-12 | | | 26-Apr-12 | | |
| **Analyte** | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | | **RL** | **Result** | |
| PCE | 0.29 | 11 | | 0.26 | 5.0 | | 0.25 | 2.4 | | 0.26 | 39 | | 0.26 | 4.7 | |
| TCE | 0.23 | 0.23 | U | 0.21 | 0.21 | U | 0.2 | 0.44 | | 0.21 | 0.21 | U | 0.2 | 0.2 | U |
| *cis* -1,2-DCE | 0.17 | 0.17 | U | 0.16 | 0.16 | U | 0.15 | 0.15 | U | 0.16 | 0.16 | U | 0.15 | 0.15 | U |
| *trans* -1,2-DCE | 0.86 | 0.86 | U | 0.78 | 0.78 | U | 0.74 | 0.74 | U | 0.78 | 0.78 | U | 0.76 | 0.76 | U |
| Vinyl chloride | 0.055 | 0.075 | | 0.05 | 0.05 | U | 0.048 | 0.048 | U | 0.05 | 0.05 | U | 0.049 | 0.049 | U |

| Sample ID | IA-DUP2 (IA-3770D) | | | Background-042512 | | |
|---|---|---|---|---|---|---|
| Collection Date | 26-Apr-12 | | | 26-Apr-12 | | |
| **Analyte** | **RL** | **Result** | | **RL** | **Result** | |
| PCE | 0.26 | 4.8 | | 0.26 | 0.27 | |
| TCE | 0.21 | 0.21 | U | 0.2 | 0.2 | U |
| *cis* -1,2-DCE | 0.16 | 0.16 | U | 0.15 | 0.15 | U |
| *trans* -1,2-DCE | 0.78 | 0.78 | U | 0.76 | 0.76 | U |
| Vinyl chloride | 0.05 | 0.05 | U | 0.049 | 0.049 | U |

**Table 5-1**
**Sampling Results**
**EPA Method TO-15 SIM (µg/m$^3$)**
**Maryland Square PCE Site**
**Las Vegas, Nevada**

**Data Validity Qualifiers:**

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

**Definitions:**

D - duplicate sample
DCE - dichloroethene
µg/m$^3$ - micrograms per cubic meter
PCE - tetrachloroethene
RL - reporting limit
TCE - trichloroethene
VOC - volatile organic compound

**Notes:**

Sample analyses performed by Air Toxics Laboratories.
Grey type indicates non-detect results.
Highlighted results exceed the Interim-Action Level of 32 µg/m$^3$

# FIGURES

115.14° W | 115.135° W | 115.13° W | 115.125° W | 115.12° W

36.125° N

36.12° N

S MARYLAND PARKWAY

SOUTH EASTERN AVENUE

E TWAIN AVENUE

E KATIE AVENUE

FLAMINGO WASH

Ruby S. Thompson Elementary School

William E. Orr Middle School

Orr Park

Golf Course

Boulevard Mall

MW-17 350
MW-35 630
MW-12 0.95
MW-34 1000
MW-9 5.6
MW-8 2.7
MW-1 460
MW-4
MW-14 1700
MW-7 2.0
MW-15 3.5
MW-6 2900
MW-13 1700
MW-5 670
MW-2 680
MW-3 16
MW-10 ND
BM NA
MW-21 13
MW-20 850
MW-19 1100
MW-18 1300
MW-16 ND
MW-11 1.4
MW-22 0.55
MW-24 0.95
MW-23 1100
MW-25 740
MW-26 860
MW-27 470
MW-32 790
MW-33 ND
MW-36 150
BT-2
PW-2
MW-37 37
MW-31 64
MW-30 50
MW-28 0.62
MW-29 ND

## Legend

- Soil Boring Location
- Production Well Location
- Monitoring Well Location (Sampled 2011)
- Monitoring Well Location (Sampled January 2012)
- Monitoring Well Location (Not Sampled)

- 2500 ug/L PCE Contour
- 2000 ug/L PCE Contour
- 1500 ug/L PCE Contour
- 1000 ug/L PCE Contour
- 500 ug/L PCE Contour
- 100 ug/L PCE Contour
- 5 ug/L PCE Contour (Dashed Where Inferred)

| | |
|---|---|
| ug/L | Micrograms Per Liter |
| NA | Not Analyzed |
| ND | Not Detected |
| NS | Not Sampled |
| PCE | Tetrachloroethylene |
| PQL | Practical Quantitation Limit |
| URS | URS Corporation |

PCE PQL = 0.5 ug/L

N W E S

0 250 500 Feet

Approximate Scale in Feet

MARYLAND SQUARE PCE SITE
3661 South Maryland Parkway
Las Vegas, Nevada

**FIGURE 1-1**
**MARYLAND SQUARE PCE PLUME**

TETRA TECH

Path: S:\Projects Directory\Private Sector - Other Offices\Maryland Square\Work Plan\Jan2012\Figure 2 011712.mxd

ALGONQUIN

MARICOPA WAY

CHEROKEE LANE

SENECA LANE

SENECA CIRCLE

SPENCER STREET

OTTAWA CIRCLE

OTTAWA DRIVE

TWAIN AVENUE

COCHISE LANE

TIOGA WAY

GERONIMO WAY

## Legend

100 µg/L Groundwater PCE Contour
Based on January 2012 Sampling Data

Parcel

Parcel Selected for Indoor Air Sampling

N

W E

S

0 112.5 225 450 Feet

*Data sources: Clark County, Tetra Tech*
*ArcGIS Map No. 8940*

Maryland Square PCE Site
3661 South Maryland Parkway
Las Vegas, Nevada

**FIGURE 2-1**
**PARCELS SELECTED FOR INDOOR AIR SAMPLING**

TETRA TECH

# APPENDICES

# APPENDIX A - Resident Notification Materials

February 2, 2012

Dear Resident,

This letter provides information about upcoming indoor air sampling that will be offered to homeowners whose property may be affected by shallow groundwater containing the dry-cleaning solvent tetrachloroethene (PCE). The area of contaminated groundwater is known as the "Maryland Square PCE plume."

Tetra Tech, an international environmental consulting firm, has been contracted by the Herman Kishner Trust to conduct the indoor air sampling. **Please note that sampling at your home is completely voluntary and will be conducted at no cost to you.**

Tetra Tech will be conducting indoor air sampling, with regulatory oversight by the Nevada Division of Environmental Protection (NDEP) and in accordance with the *Work Plan for Mitigation of Indoor Air and Well Water* dated June 28, 2011 and the *Addendum to the Work Plan for Mitigation of Indoor Air and Well Water* dated August 15 2011. You may view and download these documents from the NDEP website at http://ndep.nv.gov/pce/foia.htm.

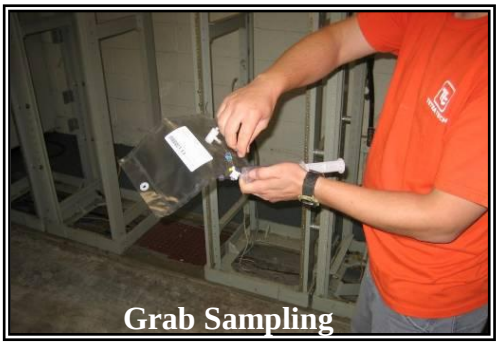
The Herman Kishner Trust will be providing annual sampling of indoor air for homes that overlie groundwater containing PCE at concentrations that exceed 100 parts per billion (ppb). If the air in your home is found to contain PCE at a concentration that exceeds the NDEP's interim-action level of 32 micrograms per cubic meter ($\mu g/m^3$), you will be offered a mitigation system for your home. The mitigation system will be installed at no cost to you.

**Indoor Air Sampling**

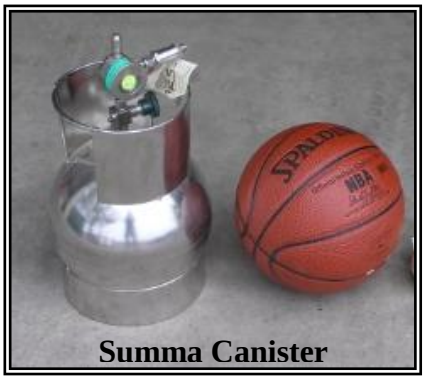
The air sampling in your neighborhood will be conducted in three phases:

- Phase 1 – In-Home Surveys. Before collecting samples of indoor air, Tetra Tech staff will meet with you at your home and complete a questionnaire to help assess whether your home may include consumer products that contain PCE. A visual inspection of your home will be conducted to look for products that may contain PCE or other volatile organic compounds (VOCs). The in-home survey is expected to take approximately 30 to 60 minutes.

- Phase 2 – Grab Sampling. Tetra Tech will collect one or more screening samples (also known as "grab" samples) of air from your home and analyze these samples in a mobile laboratory that will be located in the neighborhood. Grab sampling should not take more than 15 to 30 minutes, and the laboratory results will be known within a few hours. If the concentrations of PCE in the grab samples from your home are less than half of the interim-action level, then the sampling at your home will be considered complete for 2012. If grab samples from your home contain concentrations of PCE that exceed one-half the interim-action level, then 24-hour sampling will be offered (Phase 3).


Grab Sampling

- Phase 3 – Summa Canister Sampling. Tetra Tech will place summa canisters in your home, which will collect a time-integrated sample of indoor air over a 24-hour sampling period. Tetra Tech will then return 24 hours later to retrieve the canisters. After retrieving the summa canisters, they will be sent to a laboratory for analysis. The laboratory will require approximately 30 days to complete the analysis.



**Summa Canister**

The in-home surveys will be scheduled at your convenience from February 16 through 20, 2012. The grab sampling will be scheduled at your convenience from February 25 through 29, 2012; this time window is short because of limited availability of the mobile laboratory. If you are not available for an in-home survey during the 16th through the 20th, you will be offered another opportunity during the grab sampling. If you are not available for the grab sampling, then summa canister sampling (Phase 3) will be offered for your home; although we be believe you will find the grab sampling more convenient and therefore recommend scheduling the sampling for February 25 through 29 if possible. In an effort to accommodate your schedule, both the in-home survey and sampling will be offered on weekends and evenings, in addition to regular business hours. If you are not available for grab sampling between February 25 and February 29, 24-hour sampling with a summa canister will be scheduled for your home. Please contact us as described below to discuss options and details.

**Access Agreement and Confidentiality**

Enclosed in this letter is an access agreement that allows Tetra Tech staff to enter your home, at the specific times you agree to, in order to conduct the air sampling. Please review the access agreement, and sign and date it if you choose to have your home sampled. We will ask for the signed access agreement when we arrive for the in-home survey. Tetra Tech will not enter your home without a signed access agreement. Tetra Tech will conduct all phases of the sampling, but will be accompanied by a representative from the NDEP. In addition, if you are being represented by the law firm of Robertson & Vick, LLP or Greben & Associates, one of their representatives may also be present.

Tetra Tech and the NDEP will keep your sample results confidential to the extent possible. Previous data collected by the NDEP was released to parties on a need-to-know basis and then, only after a confidentiality agreement was signed.

**Scheduling Appointments**

To schedule appointments for in-home surveys and air sampling, please call our dedicated phone line at **(702) 290-5971**. If we do not answer, please leave a message with your name, address, phone number, and preferred time for a return call, and we will contact you within one business day, including outside of regular business hours if you prefer. You may also contact us via email at ParadisePalms-PCE-Help@tetratech.com. Tetra Tech respectfully requests your response to this letter by calling **(702) 290-5971** or emailing ParadisePalms-PCE-Help@tetratech.com by February 13, 2012.

Sincerely,

**TETRA TECH, INC.**

**ACCESS AGREEMENT**

THIS AGREEMENT ("Agreement") is made and entered into as of the _____ day of _____, 2012, by and between _____ ("Owner") Tetra Tech, Inc. (“Tt”) concerning the following described property owned by Owner ("Property"): _____.

A. Tt has an interest in accessing the Property to sample indoor air to aid in characterizing the extent of potential vapor migration into indoor air from subsurface soil vapor; and

B. In order for Tt to sample indoor air, it is necessary for employees, agents or independent contractors of Tt to enter upon and inspect the Property; and

C. Owner and Tt desire to provide for the entry, inspection and air sampling activities (two rounds of sampling may be required, depending on the analytical results), at the Property according to the terms of this Agreement.

D. Tt will make available the analytical results of the sampling to the Owner via mail. Tt will also keep the test results confidential, to the extent allowed under Nevada Revised Statutes Chapter 239, Public Records Act requirements.

Owner and Tt agree as follows:

1. Consent. Owner consents and agrees that Tt, its employees, agents and independent contractors ("Authorized Parties") may enter upon the Property to conduct and perform home surveys and indoor air sampling with bags or summa canisters. Tt agrees to be responsible for any and all costs related to the home survey and indoor air sampling.

2. Access. Owner agrees that the Authorized Parties may enter upon the Property to perform the home survey and indoor air sampling according to this Agreement, at dates and times scheduled with and agreed to by Owner.

3. Removal of Property. Tt agrees that it will remove any summa canisters set up on the Property as a part of the indoor air sampling, repair any damage to the Property that might have been caused in connection with the home survey or indoor air sampling, and will return the Property to the condition it was in before Tt’s entry onto the Property. In the event any summa canister set up on the Property by Tt is not removed at the conclusion of sampling, the Owner will have the right to remove such equipment.

4. Indemnity. Tt agrees to indemnify, save harmless, and defend the Owner against any and all claims, actions, damages, liability and expense in connection with personal injury and/or damage to property arising from or out of any occurrence in, upon or at the Property, to the extent caused by the negligent acts or omission of the Authorized Parties in conducting the home survey and indoor air sampling. Any defense conducted by Tt of any such claims, actions, damages, liability and expense will be conducted by attorneys chosen by Tt, and Tt will be liable for the payment of any and all court costs, expenses of litigation, reasonable attorneys’ fees and any judgment that may be entered therein. Tt’s liability for all of the above matters shall be limited to the proceeds recovered from the insurance provided by Tt. In no event shall Tt be liable for any special, indirect, incidental or consequential damages.

5. Governing Law. The parties agree that the interpretation and construction of this Agreement shall be governed by the laws of the State of Nevada, without regard to such state's conflict of laws provisions.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year first above written.

| | |
|---|---|
| Tetra Tech Inc.: | OWNER: |
| By: _____ | By: _____ |
| Name:_____ | Name:_____ |
| Title: _____ | Title: _____ |
| Date: _____ | Date: _____ |

STATE OF NEVADA
Department of Conservation & Natural Resources
DIVISION OF ENVIRONMENTAL PROTECTION
Brian Sandoval, Governor
Leo M. Drozdoff, P.E., Director
Colleen Cripps, Ph.D., Administrator
NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
protecting the future for generations

**AUTHORIZATION AND RELEASE**

**PROJECT: Maryland Square PCE Site, 3661 S. Maryland Parkway, NDEP Facility ID# H-000086**

Please read the following authorization and release form. Sign and date one copy and return to the Nevada Division of Environmental Protection (NDEP) in the envelope provided; or provide the copy directly to the NDEP representative who will observe the sampling performed by Tetra Tech.

---

I hereby authorize and grant NDEP and its authorized agents the right of reasonable entry and access to my property in the City of Las Vegas, located in Clark County, Nevada in order to observe indoor air sampling being performed by Tetra Tech for the purpose of characterizing the extent of potential vapor migration into indoor air from subsurface soil vapor. I understand that persons entitled to access by this Authorization and Release include the NDEP, its officers, agents, employees, contractors, and any other person authorized by NDEP to observe the above activities.

At this time, we anticipate that indoor air sampling will take place in February and March, 2012; however, Tetra Tech will be contacting you and will be setting up the sampling schedule. Tetra Tech will provide you with more specific information on the sampling and sampling dates.

I understand that NDEP will be observing personnel from Tetra Tech who will be conducting the sampling and that Tetra Tech will make available to me the results of the sampling. NDEP and Tetra Tech will also keep individual home test results confidential, to the extent allowed under Nevada Revised Statutes Chapter 239, Public Records Act requirements.

| | |
|---|---|
| _____ | _____ |
| Name of Homeowner (please print) | Contact Phone Number |
| _____ | _____ |
| Address | City/State/Zip Code |
| _____ | _____ |
| Signature | Date |

☐ I decline to participate in the indoor air sampling program

| | |
|---|---|
| _____ | _____ |
| Homeowner Signature | Date |

# APPENDIX B - Laboratory Data Packages

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203024

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1203024

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919.02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-3987 | Modified TO-15 SIM | 8.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203024**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody for sample IA-3987. The year of collection was assumed to be 2012.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-3987**

**Lab ID#: 1203024-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.037 | 0.79 | 0.25 | 5.3 |

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**Client Sample ID: IA-3987**

**Lab ID#: 1203024-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030216** | **Date of Collection:** | **2/28/12 8:30:00 AM** |
| **Dil. Factor:** | **1.87** | **Date of Analysis:** | **3/2/12 06:51 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.048 | Not Detected |
| cis-1,2-Dichloroethene | 0.037 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.037 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.037 | 0.79 | 0.25 | 5.3 |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.74 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203024-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030206** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 11:30 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203024-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030202** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:03 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 101 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 89 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 105 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203024-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030203** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:42 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 103 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 86 |
| Tetrachloroethene | 86 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203024-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030204** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:17 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 102 |
| cis-1,2-Dichloroethene | 101 |
| Trichloroethene | 86 |
| Tetrachloroethene | 88 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203025

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1203025

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919.02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-4129 | Modified TO-15 SIM | 6.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203025**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody for sample IA-4129. The year of collection was assumed to be 2012.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-4129**

**Lab ID#: 1203025-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.034 | 0.36 | 0.23 | 2.4 |

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**Client Sample ID: IA-4129**

**Lab ID#: 1203025-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030217** | **Date of Collection: 2/28/12 9:30:00 AM** | |
| **Dil. Factor:** | **1.71** | **Date of Analysis: 3/2/12 07:27 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.017 | Not Detected | 0.044 | Not Detected |
| cis-1,2-Dichloroethene | 0.034 | Not Detected | 0.14 | Not Detected |
| Trichloroethene | 0.034 | Not Detected | 0.18 | Not Detected |
| Tetrachloroethene | 0.034 | 0.36 | 0.23 | 2.4 |
| trans-1,2-Dichloroethene | 0.17 | Not Detected | 0.68 | Not Detected |

**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 | 100 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203025-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030206** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 11:30 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203025-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030202** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:03 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 101 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 89 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 105 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203025-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030203** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:42 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 103 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 86 |
| Tetrachloroethene | 86 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203025-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030204** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:17 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 102 |
| cis-1,2-Dichloroethene | 101 |
| Trichloroethene | 86 |
| Tetrachloroethene | 88 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203026

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1203026

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919.02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-4523 | Modified TO-15 SIM | 8.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203026**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody for sample IA-4523. The year of collection was assumed to be 2012.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-4523**

**Lab ID#: 1203026-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.037 | 0.25 | 0.25 | 1.7 |

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**Client Sample ID: IA-4523**

**Lab ID#: 1203026-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030219** | **Date of Collection: 2/28/12 8:00:00 AM** | |
| **Dil. Factor:** | **1.87** | **Date of Analysis: 3/2/12 08:41 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.048 | Not Detected |
| cis-1,2-Dichloroethene | 0.037 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.037 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.037 | 0.25 | 0.25 | 1.7 |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.74 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203026-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030206** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 11:30 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203026-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030202** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:03 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 101 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 89 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 105 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203026-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030203** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:42 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 103 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 86 |
| Tetrachloroethene | 86 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203026-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030204** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:17 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 102 |
| cis-1,2-Dichloroethene | 101 |
| Trichloroethene | 86 |
| Tetrachloroethene | 88 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203027

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1203027

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919.02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | Background-022712 | Modified TO-15 SIM | 9.0 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda J. Fruman DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203027**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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**

Sample collection date was incomplete on the Chain of Custody for sample Background-022712. The year of collection was assumed to be 2012.

**Analytical Notes**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

eurofins | Air Toxics

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

**Client Sample ID: Background-022712**

**Lab ID#: 1203027-01A**

No Detections Were Found.

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**Client Sample ID: Background-022712**

**Lab ID#: 1203027-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030220** | **Date of Collection: 2/28/12 8:00:00 AM** | |
| **Dil. Factor:** | **1.91** | **Date of Analysis: 3/2/12 09:27 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.049 | Not Detected |
| cis-1,2-Dichloroethene | 0.038 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.038 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.038 | Not Detected | 0.26 | Not Detected |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.76 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 99 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203027-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030206** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 11:30 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203027-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030202** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:03 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 101 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 89 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 105 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203027-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030203** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:42 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 103 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 86 |
| Tetrachloroethene | 86 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203027-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030204** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:17 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 102 |
| cis-1,2-Dichloroethene | 101 |
| Trichloroethene | 86 |
| Tetrachloroethene | 88 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203028

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1203028

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919.02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-2838 | Modified TO-15 SIM | 9.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203028**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody for sample IA-2838. The year of collection was assumed to be 2012.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-2838**

**Lab ID#: 1203028-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.039 | 0.093 | 0.26 | 0.63 |

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**Client Sample ID: IA-2838**

**Lab ID#: 1203028-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030219sim** | **Date of Collection: 2/26/12 3:00:00 PM** | |
| **Dil. Factor:** | **1.96** | **Date of Analysis: 3/2/12 09:25 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.020 | Not Detected | 0.050 | Not Detected |
| cis-1,2-Dichloroethene | 0.039 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.039 | Not Detected | 0.21 | Not Detected |
| Tetrachloroethene | 0.039 | 0.093 | 0.26 | 0.63 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.78 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 112 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 112 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203028-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 12:28 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203028-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030203sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 08:29 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 88 |
| Trichloroethene | 82 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 88 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 |
| Toluene-d8 | 86 | 70-130 |
| 4-Bromofluorobenzene | 118 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203028-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:33 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 92 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 87 |
| Tetrachloroethene | 97 |
| trans-1,2-Dichloroethene | 103 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 85 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203028-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:51 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 93 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 89 |
| Tetrachloroethene | 99 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 84 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

eurofins | Air Toxics

3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203029

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1203029

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-1643 | Modified TO-15 SIM | 7.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203029**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody (COC) for samples IA-1643. The sampling date was taken from the tag.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-1643**

**Lab ID#: 1203029-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.036 | 1.2 | 0.24 | 8.3 |

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**Client Sample ID: IA-1643**

**Lab ID#: 1203029-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030218** | **Date of Collection:** | **2/29/12 9:00:00 AM** |
| **Dil. Factor:** | **1.79** | **Date of Analysis:** | **3/2/12 08:07 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.018 | Not Detected | 0.046 | Not Detected |
| cis-1,2-Dichloroethene | 0.036 | Not Detected | 0.14 | Not Detected |
| Trichloroethene | 0.036 | Not Detected | 0.19 | Not Detected |
| Tetrachloroethene | 0.036 | 1.2 | 0.24 | 8.3 |
| trans-1,2-Dichloroethene | 0.18 | Not Detected | 0.71 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 99 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203029-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030206** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 11:30 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: CCV**

**Lab ID#: 1203029-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030202** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:03 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 101 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 89 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 105 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: LCS**

**Lab ID#: 1203029-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030203** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:42 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 103 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 86 |
| Tetrachloroethene | 86 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: LCSD**

**Lab ID#: 1203029-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030204** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:17 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 102 |
| cis-1,2-Dichloroethene | 101 |
| Trichloroethene | 86 |
| Tetrachloroethene | 88 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

eurofins | Air Toxics

3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203030

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1203030

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-4721 | Modified TO-15 SIM | 8.5 "Hg | 5 psi |
| 02A | IA-DUP2 | Modified TO-15 SIM | 8.5 "Hg | 5 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: Linda D. Frumarn DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203030**

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody (COC) for samples IA-4721 and IA-DUP2. The sampling date was taken from the tag.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

**Client Sample ID: IA-4721**

**Lab ID#: 1203030-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.037 | 0.87 | 0.25 | 5.9 |

**Client Sample ID: IA-DUP2**

**Lab ID#: 1203030-02A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.037 | 0.88 | 0.25 | 5.9 |

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**Client Sample ID: IA-4721**

**Lab ID#: 1203030-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030220sim** | **Date of Collection:** | **2/27/12 4:30:00 PM** |
| **Dil. Factor:** | **1.87** | **Date of Analysis:** | **3/2/12 10:01 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.048 | Not Detected |
| cis-1,2-Dichloroethene | 0.037 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.037 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.037 | 0.87 | 0.25 | 5.9 |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.74 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 82 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: IA-DUP2**

**Lab ID#: 1203030-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030221sim** | **Date of Collection: 2/27/12 4:30:00 PM** | |
| **Dil. Factor:** | **1.87** | **Date of Analysis: 3/2/12 10:40 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.048 | Not Detected |
| cis-1,2-Dichloroethene | 0.037 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.037 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.037 | 0.88 | 0.25 | 5.9 |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.74 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203030-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 12:28 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203030-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030203sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 08:29 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 88 |
| Trichloroethene | 82 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 88 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 |
| Toluene-d8 | 86 | 70-130 |
| 4-Bromofluorobenzene | 118 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203030-05A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:33 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 92 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 87 |
| Tetrachloroethene | 97 |
| trans-1,2-Dichloroethene | 103 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 85 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203030-05AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:51 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 93 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 89 |
| Tetrachloroethene | 99 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 84 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203031

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1203031

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919.02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-4263 | Modified TO-15 SIM | 8.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203031**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody for sample IA-4263. The year of collection was assumed to be 2012.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-4263**

**Lab ID#: 1203031-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.037 | 0.053 | 0.25 | 0.36 |

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**Client Sample ID: IA-4263**

**Lab ID#: 1203031-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030222sim** | **Date of Collection: 2/26/12 12:00:00 PM** | |
| **Dil. Factor:** | **1.87** | **Date of Analysis: 3/2/12 11:16 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.048 | Not Detected |
| cis-1,2-Dichloroethene | 0.037 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.037 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.037 | 0.053 | 0.25 | 0.36 |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.74 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 112 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203031-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 12:28 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203031-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030203sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 08:29 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 88 |
| Trichloroethene | 82 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 88 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 |
| Toluene-d8 | 86 | 70-130 |
| 4-Bromofluorobenzene | 118 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203031-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:33 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 92 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 87 |
| Tetrachloroethene | 97 |
| trans-1,2-Dichloroethene | 103 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 85 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203031-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:51 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 93 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 89 |
| Tetrachloroethene | 99 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 84 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

eurofins | Air Toxics

3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203032

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1203032

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919.02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-2498 | Modified TO-15 SIM | 9.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203032**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody for sample IA-2498. The year of collection was assumed to be 2012.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-2498**

**Lab ID#: 1203032-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.039 | 0.17 | 0.26 | 1.2 |

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**Client Sample ID: IA-2498**

**Lab ID#: 1203032-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030223sim** | **Date of Collection:** | **2/26/12 10:00:00 AM** |
| **Dil. Factor:** | **1.96** | **Date of Analysis:** | **3/2/12 11:52 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.020 | Not Detected | 0.050 | Not Detected |
| cis-1,2-Dichloroethene | 0.039 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.039 | Not Detected | 0.21 | Not Detected |
| Tetrachloroethene | 0.039 | 0.17 | 0.26 | 1.2 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.78 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203032-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 12:28 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203032-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030203sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 08:29 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 88 |
| Trichloroethene | 82 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 88 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 |
| Toluene-d8 | 86 | 70-130 |
| 4-Bromofluorobenzene | 118 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203032-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:33 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 92 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 87 |
| Tetrachloroethene | 97 |
| trans-1,2-Dichloroethene | 103 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 85 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203032-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:51 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 93 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 89 |
| Tetrachloroethene | 99 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 84 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203033

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1203033

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919.02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-4691 | Modified TO-15 SIM | 9.0 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203033**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody for sample IA-4691. The year of collection was assumed to be 2012.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-4691**

**Lab ID#: 1203033-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.038 | 4.2 | 0.26 | 29 |

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**Client Sample ID: IA-4691**

**Lab ID#: 1203033-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030224sim** | **Date of Collection:** | **2/26/12 9:00:00 AM** |
| **Dil. Factor:** | **1.91** | **Date of Analysis:** | **3/3/12 12:28 AM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.049 | Not Detected |
| cis-1,2-Dichloroethene | 0.038 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.038 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.038 | 4.2 | 0.26 | 29 |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.76 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 112 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203033-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 12:28 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203033-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030203sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 08:29 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 88 |
| Trichloroethene | 82 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 88 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 |
| Toluene-d8 | 86 | 70-130 |
| 4-Bromofluorobenzene | 118 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203033-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:33 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 92 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 87 |
| Tetrachloroethene | 97 |
| trans-1,2-Dichloroethene | 103 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 85 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203033-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:51 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 93 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 89 |
| Tetrachloroethene | 99 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 84 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203034

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1203034

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-4728 | Modified TO-15 SIM | 9.0 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
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**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203034**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody (COC) for sample IA-4728. The sampling date was taken from the tag.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-4728**

**Lab ID#: 1203034-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.038 | 0.32 | 0.26 | 2.1 |

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**Client Sample ID: IA-4728**

**Lab ID#: 1203034-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030221** | **Date of Collection: 2/27/12 12:00:00 PM** | |
| **Dil. Factor:** | **1.91** | **Date of Analysis: 3/2/12 10:03 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.049 | Not Detected |
| cis-1,2-Dichloroethene | 0.038 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.038 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.038 | 0.32 | 0.26 | 2.1 |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.76 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 95 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203034-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030206** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 11:30 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203034-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030202** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:03 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 101 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 89 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 105 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203034-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030203** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:42 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 103 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 86 |
| Tetrachloroethene | 86 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203034-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030204** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:17 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 102 |
| cis-1,2-Dichloroethene | 101 |
| Trichloroethene | 86 |
| Tetrachloroethene | 88 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203035

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1203035

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-2093 | Modified TO-15 SIM | 9.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203035**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody (COC) for sample IA-2093. The sampling date was taken from the tag.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-2093**

**Lab ID#: 1203035-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.039 | 0.60 | 0.26 | 4.1 |

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**Client Sample ID: IA-2093**

**Lab ID#: 1203035-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030222** | **Date of Collection:** | **2/28/12 10:30:00 AM** |
| **Dil. Factor:** | **1.96** | **Date of Analysis:** | **3/2/12 10:42 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.020 | Not Detected | 0.050 | Not Detected |
| cis-1,2-Dichloroethene | 0.039 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.039 | Not Detected | 0.21 | Not Detected |
| Tetrachloroethene | 0.039 | 0.60 | 0.26 | 4.1 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.78 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203035-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030206** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 11:30 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203035-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030202** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:03 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 101 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 89 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 105 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203035-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030203** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:42 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 103 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 86 |
| Tetrachloroethene | 86 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203035-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030204** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:17 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 102 |
| cis-1,2-Dichloroethene | 101 |
| Trichloroethene | 86 |
| Tetrachloroethene | 88 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

eurofins | Air Toxics

3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203036

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1203036

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-3882 | Modified TO-15 SIM | 9.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda J. Fruman DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203036**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody (COC) for sample IA-3882. The sampling date was taken from the tag.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

eurofins | Air Toxics

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

**Client Sample ID: IA-3882**

**Lab ID#: 1203036-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.039 | 5.7 | 0.26 | 39 |

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**Client Sample ID: IA-3882**

**Lab ID#: 1203036-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030223** | **Date of Collection:** | **2/28/12 2:00:00 PM** |
| **Dil. Factor:** | **1.96** | **Date of Analysis:** | **3/2/12 11:16 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.020 | Not Detected | 0.050 | Not Detected |
| cis-1,2-Dichloroethene | 0.039 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.039 | Not Detected | 0.21 | Not Detected |
| Tetrachloroethene | 0.039 | 5.7 | 0.26 | 39 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.78 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203036-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030206** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 11:30 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: CCV**

**Lab ID#: 1203036-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030202** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:03 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 101 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 89 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 105 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: LCS**

**Lab ID#: 1203036-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030203** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:42 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 103 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 86 |
| Tetrachloroethene | 86 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: LCSD**

**Lab ID#: 1203036-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030204** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:17 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 102 |
| cis-1,2-Dichloroethene | 101 |
| Trichloroethene | 86 |
| Tetrachloroethene | 88 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

eurofins | Air Toxics

3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203037

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1203037

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | Background-022812 | Modified TO-15 SIM | 6.0 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203037**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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**

Sample collection date was incomplete on the Chain of Custody (COC) for sample Background-022812. The sampling date was taken from the tag.

**Analytical Notes**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: Background-022812**

**Lab ID#: 1203037-01A**

No Detections Were Found.

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**Client Sample ID: Background-022812**

**Lab ID#: 1203037-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030224** | **Date of Collection: 2/29/12 9:00:00 AM** | |
| **Dil. Factor:** | **1.68** | **Date of Analysis: 3/2/12 11:50 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.017 | Not Detected | 0.043 | Not Detected |
| cis-1,2-Dichloroethene | 0.034 | Not Detected | 0.13 | Not Detected |
| Trichloroethene | 0.034 | Not Detected | 0.18 | Not Detected |
| Tetrachloroethene | 0.034 | Not Detected | 0.23 | Not Detected |
| trans-1,2-Dichloroethene | 0.17 | Not Detected | 0.67 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 99 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203037-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030206** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 11:30 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203037-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030202** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:03 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 101 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 89 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 105 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203037-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030203** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:42 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 103 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 86 |
| Tetrachloroethene | 86 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203037-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030204** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:17 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 102 |
| cis-1,2-Dichloroethene | 101 |
| Trichloroethene | 86 |
| Tetrachloroethene | 88 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203038

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1203038

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-4774 | Modified TO-15 SIM | 9.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203038**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 02, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody (COC) for sample IA-4774. The sampling date was taken from the tag.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-4774**

**Lab ID#: 1203038-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Trichloroethene | 0.039 | 0.058 | 0.21 | 0.31 |
| Tetrachloroethene | 0.039 | 1.6 | 0.26 | 11 |

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**Client Sample ID: IA-4774**

**Lab ID#: 1203038-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030212sim** | **Date of Collection:** | **2/29/12 10:00:00 AM** |
| **Dil. Factor:** | **1.96** | **Date of Analysis:** | **3/2/12 04:31 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.020 | Not Detected | 0.050 | Not Detected |
| cis-1,2-Dichloroethene | 0.039 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.039 | 0.058 | 0.21 | 0.31 |
| Tetrachloroethene | 0.039 | 1.6 | 0.26 | 11 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.78 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 84 | 70-130 |
| 4-Bromofluorobenzene | 115 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203038-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 12:28 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203038-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030203sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 08:29 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 88 |
| Trichloroethene | 82 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 88 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 |
| Toluene-d8 | 86 | 70-130 |
| 4-Bromofluorobenzene | 118 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203038-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:33 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 92 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 87 |
| Tetrachloroethene | 97 |
| trans-1,2-Dichloroethene | 103 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 85 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203038-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:51 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 93 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 89 |
| Tetrachloroethene | 99 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 84 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203039

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1203039

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-3029 | Modified TO-15 SIM | 8.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203039**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody (COC) for sample IA-3029. The sampling date was taken from the tag.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-3029**

**Lab ID#: 1203039-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.037 | 1.2 | 0.25 | 8.3 |

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**Client Sample ID: IA-3029**

**Lab ID#: 1203039-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030213sim** | **Date of Collection:** | **2/26/12 2:00:00 PM** |
| **Dil. Factor:** | **1.87** | **Date of Analysis:** | **3/2/12 05:22 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.048 | Not Detected |
| cis-1,2-Dichloroethene | 0.037 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.037 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.037 | 1.2 | 0.25 | 8.3 |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.74 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 112 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203039-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 12:28 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: CCV**

**Lab ID#: 1203039-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030203sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 08:29 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 88 |
| Trichloroethene | 82 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 88 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 |
| Toluene-d8 | 86 | 70-130 |
| 4-Bromofluorobenzene | 118 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203039-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:33 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 92 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 87 |
| Tetrachloroethene | 97 |
| trans-1,2-Dichloroethene | 103 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 85 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203039-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:51 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 93 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 89 |
| Tetrachloroethene | 99 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 84 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203040

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1203040

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-2301 | Modified TO-15 SIM | 8.0 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203040**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

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

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

**Client Sample ID: IA-2301**

**Lab ID#: 1203040-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.037 | 0.39 | 0.25 | 2.6 |

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**Client Sample ID: IA-2301**

**Lab ID#: 1203040-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030214sim** | **Date of Collection:** | **2/27/12 3:00:00 PM** |
| **Dil. Factor:** | **1.83** | **Date of Analysis:** | **3/2/12 06:07 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.018 | Not Detected | 0.047 | Not Detected |
| cis-1,2-Dichloroethene | 0.037 | Not Detected | 0.14 | Not Detected |
| Trichloroethene | 0.037 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.037 | 0.39 | 0.25 | 2.6 |
| trans-1,2-Dichloroethene | 0.18 | Not Detected | 0.72 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 112 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203040-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 12:28 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203040-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030203sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 08:29 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 88 |
| Trichloroethene | 82 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 88 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 |
| Toluene-d8 | 86 | 70-130 |
| 4-Bromofluorobenzene | 118 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203040-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:33 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 92 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 87 |
| Tetrachloroethene | 97 |
| trans-1,2-Dichloroethene | 103 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 85 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203040-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:51 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 93 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 89 |
| Tetrachloroethene | 99 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 84 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203041

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1203041

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-4638 | Modified TO-15 SIM | 10.0 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203041**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody (COC) for sample IA-4638. The sampling date was taken from the tag.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-4638**

**Lab ID#: 1203041-01A**

No Detections Were Found.

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**Client Sample ID: IA-4638**

**Lab ID#: 1203041-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030215sim** | **Date of Collection:** | **2/26/12 4:00:00 PM** |
| **Dil. Factor:** | **2.01** | **Date of Analysis:** | **3/2/12 06:44 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.020 | Not Detected | 0.051 | Not Detected |
| cis-1,2-Dichloroethene | 0.040 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.040 | Not Detected | 0.22 | Not Detected |
| Tetrachloroethene | 0.040 | Not Detected | 0.27 | Not Detected |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.80 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203041-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 12:28 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: CCV**

**Lab ID#: 1203041-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030203sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 08:29 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 88 |
| Trichloroethene | 82 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 88 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 |
| Toluene-d8 | 86 | 70-130 |
| 4-Bromofluorobenzene | 118 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: LCS**

**Lab ID#: 1203041-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:33 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 92 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 87 |
| Tetrachloroethene | 97 |
| trans-1,2-Dichloroethene | 103 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 85 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: LCSD**

**Lab ID#: 1203041-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:51 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 93 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 89 |
| Tetrachloroethene | 99 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 84 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

eurofins | Air Toxics

3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203042

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1203042

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-1553 | Modified TO-15 SIM | 9.0 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203042**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody (COC) for sample IA-1553. The sampling date was taken from the tag.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-1553**

**Lab ID#: 1203042-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.038 | 1.0 | 0.26 | 7.0 |

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**Client Sample ID: IA-1553**

**Lab ID#: 1203042-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030225** | **Date of Collection: 2/28/12 4:30:00 PM** | |
| **Dil. Factor:** | **1.91** | **Date of Analysis: 3/3/12 12:24 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.049 | Not Detected |
| cis-1,2-Dichloroethene | 0.038 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.038 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.038 | 1.0 | 0.26 | 7.0 |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.76 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 102 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203042-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030206** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 11:30 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203042-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030202** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:03 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 101 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 89 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 105 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203042-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030203** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:42 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 103 |
| cis-1,2-Dichloroethene | 102 |
| Trichloroethene | 86 |
| Tetrachloroethene | 86 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203042-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **c030204** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:17 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 102 |
| cis-1,2-Dichloroethene | 101 |
| Trichloroethene | 86 |
| Tetrachloroethene | 88 |
| trans-1,2-Dichloroethene | 117 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203043

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1203043

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-3330 | Modified TO-15 SIM | 4.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203043**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody (COC) for sample IA-3330. The sampling date was taken from the tag.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-3330**

**Lab ID#: 1203043-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.032 | 0.50 | 0.21 | 3.4 |

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**Client Sample ID: IA-3330**

**Lab ID#: 1203043-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030307sim** | **Date of Collection: 2/28/12 5:20:00 PM** | |
| **Dil. Factor:** | **1.58** | **Date of Analysis: 3/3/12 01:09 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.016 | Not Detected | 0.040 | Not Detected |
| cis-1,2-Dichloroethene | 0.032 | Not Detected | 0.12 | Not Detected |
| Trichloroethene | 0.032 | Not Detected | 0.17 | Not Detected |
| Tetrachloroethene | 0.032 | 0.50 | 0.21 | 3.4 |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.63 | Not Detected |

**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 | 103 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203043-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030306sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 12:18 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

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

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**Client Sample ID: CCV**

**Lab ID#: 1203043-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030302sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 09:13 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 79 |
| cis-1,2-Dichloroethene | 82 |
| Trichloroethene | 86 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 84 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203043-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030303sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 09:59 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 84 |
| cis-1,2-Dichloroethene | 86 |
| Trichloroethene | 89 |
| Tetrachloroethene | 90 |
| trans-1,2-Dichloroethene | 97 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203043-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030304sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 10:42 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 83 |
| cis-1,2-Dichloroethene | 85 |
| Trichloroethene | 87 |
| Tetrachloroethene | 88 |
| trans-1,2-Dichloroethene | 96 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 102 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203044

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1203044

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | Background - 022512 | Modified TO-15 SIM | 8.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda J. Fruman DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203044**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody (COC) for sample Background - 022512. The sampling date was taken from the tag.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: Background - 022512**

**Lab ID#: 1203044-01A**

No Detections Were Found.

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**Client Sample ID: Background - 022512**

**Lab ID#: 1203044-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030216sim** | **Date of Collection: 2/26/12 12:00:00 PM** | |
| **Dil. Factor:** | **1.87** | **Date of Analysis: 3/2/12 07:22 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.048 | Not Detected |
| cis-1,2-Dichloroethene | 0.037 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.037 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.037 | Not Detected | 0.25 | Not Detected |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.74 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 112 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203044-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 12:28 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203044-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030203sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 08:29 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 88 |
| Trichloroethene | 82 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 88 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 |
| Toluene-d8 | 86 | 70-130 |
| 4-Bromofluorobenzene | 118 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203044-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:33 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 92 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 87 |
| Tetrachloroethene | 97 |
| trans-1,2-Dichloroethene | 103 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 85 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203044-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:51 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 93 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 89 |
| Tetrachloroethene | 99 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 84 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

eurofins | Air Toxics

3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203045

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1203045

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-1278 | Modified TO-15 SIM | 8.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203045**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody (COC) for sample IA-1278. The sampling date was taken from the tag.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-1278**

**Lab ID#: 1203045-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.037 | 1.9 | 0.25 | 13 |

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**Client Sample ID: IA-1278**

**Lab ID#: 1203045-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030217sim** | **Date of Collection: 2/26/12 1:10:00 PM** | |
| **Dil. Factor:** | **1.87** | **Date of Analysis: 3/2/12 08:04 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.048 | Not Detected |
| cis-1,2-Dichloroethene | 0.037 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.037 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.037 | 1.9 | 0.25 | 13 |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.74 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203045-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 12:28 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203045-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030203sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 08:29 AM** | |

| **Compound** | **%Recovery** |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 88 |
| Trichloroethene | 82 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 88 |

**Container Type: NA - Not Applicable**

| **Surrogates** | **%Recovery** | **Method Limits** |
|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 |
| Toluene-d8 | 86 | 70-130 |
| 4-Bromofluorobenzene | 118 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203045-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:33 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 92 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 87 |
| Tetrachloroethene | 97 |
| trans-1,2-Dichloroethene | 103 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 85 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203045-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:51 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 93 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 89 |
| Tetrachloroethene | 99 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 84 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203046

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1203046

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | Background - 022612 | Modified TO-15 SIM | 7.0 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda J. Fruman DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203046**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody (COC) for sample Background - 022612. The sampling date was taken from the tag.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: Background - 022612**

**Lab ID#: 1203046-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.035 | 0.10 | 0.24 | 0.69 |

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**Client Sample ID: Background - 022612**

**Lab ID#: 1203046-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030218sim** | **Date of Collection: 2/27/12 12:00:00 PM** | |
| **Dil. Factor:** | **1.75** | **Date of Analysis: 3/2/12 08:48 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.018 | Not Detected | 0.045 | Not Detected |
| cis-1,2-Dichloroethene | 0.035 | Not Detected | 0.14 | Not Detected |
| Trichloroethene | 0.035 | Not Detected | 0.19 | Not Detected |
| Tetrachloroethene | 0.035 | 0.10 | 0.24 | 0.69 |
| trans-1,2-Dichloroethene | 0.18 | Not Detected | 0.69 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 112 | 70-130 |
| Toluene-d8 | 82 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203046-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 12:28 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 83 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: CCV**

**Lab ID#: 1203046-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030203sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 08:29 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 88 |
| Trichloroethene | 82 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 88 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 |
| Toluene-d8 | 86 | 70-130 |
| 4-Bromofluorobenzene | 118 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: LCS**

**Lab ID#: 1203046-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 09:33 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 92 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 87 |
| Tetrachloroethene | 97 |
| trans-1,2-Dichloroethene | 103 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 85 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: LCSD**

**Lab ID#: 1203046-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **v030205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/2/12 10:51 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 93 |
| cis-1,2-Dichloroethene | 93 |
| Trichloroethene | 89 |
| Tetrachloroethene | 99 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 84 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

eurofins | Air Toxics

3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203047

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1203047

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-1106 | Modified TO-15 SIM | 9.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203047**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody for sample IA-1106. The year of collection was assumed to be 2012.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-1106**

**Lab ID#: 1203047-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.039 | 0.55 | 0.26 | 3.7 |

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**Client Sample ID: IA-1106**

**Lab ID#: 1203047-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030317sim** | **Date of Collection:** | **2/29/12 10:30:00 AM** |
| **Dil. Factor:** | **1.96** | **Date of Analysis:** | **3/3/12 08:33 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.020 | Not Detected | 0.050 | Not Detected |
| cis-1,2-Dichloroethene | 0.039 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.039 | Not Detected | 0.21 | Not Detected |
| Tetrachloroethene | 0.039 | 0.55 | 0.26 | 3.7 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.78 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203047-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030306sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 12:18 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

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

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**Client Sample ID: CCV**

**Lab ID#: 1203047-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030302sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 09:13 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 79 |
| cis-1,2-Dichloroethene | 82 |
| Trichloroethene | 86 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 84 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203047-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030303sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 09:59 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 84 |
| cis-1,2-Dichloroethene | 86 |
| Trichloroethene | 89 |
| Tetrachloroethene | 90 |
| trans-1,2-Dichloroethene | 97 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203047-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030304sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 10:42 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 83 |
| cis-1,2-Dichloroethene | 85 |
| Trichloroethene | 87 |
| Tetrachloroethene | 88 |
| trans-1,2-Dichloroethene | 96 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 102 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203048

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1203048

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919.02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-3253 | Modified TO-15 SIM | 8.0 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203048**

One 6 Liter Summa Canister (SIM Certified) sample was received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody (COC) for sample IA-3253. The year of collection was assumed to be 2012.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-3253**

**Lab ID#: 1203048-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.037 | 0.37 | 0.25 | 2.5 |

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**Client Sample ID: IA-3253**

**Lab ID#: 1203048-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030318sim** | **Date of Collection:** | **2/29/12 11:30:00 AM** |
| **Dil. Factor:** | **1.83** | **Date of Analysis:** | **3/3/12 09:33 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.018 | Not Detected | 0.047 | Not Detected |
| cis-1,2-Dichloroethene | 0.037 | Not Detected | 0.14 | Not Detected |
| Trichloroethene | 0.037 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.037 | 0.37 | 0.25 | 2.5 |
| trans-1,2-Dichloroethene | 0.18 | Not Detected | 0.72 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 97 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203048-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030306sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 12:18 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

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

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**Client Sample ID: CCV**

**Lab ID#: 1203048-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030302sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 09:13 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 79 |
| cis-1,2-Dichloroethene | 82 |
| Trichloroethene | 86 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 84 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203048-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030303sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 09:59 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 84 |
| cis-1,2-Dichloroethene | 86 |
| Trichloroethene | 89 |
| Tetrachloroethene | 90 |
| trans-1,2-Dichloroethene | 97 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203048-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030304sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 10:42 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 83 |
| cis-1,2-Dichloroethene | 85 |
| Trichloroethene | 87 |
| Tetrachloroethene | 88 |
| trans-1,2-Dichloroethene | 96 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 102 | 70-130 |

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3/15/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203049

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/1/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1203049

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/01/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/15/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-3787-1 | Modified TO-15 SIM | 10.5 "Hg | 5 psi |
| 02A | IA-DUP 1 | Modified TO-15 SIM | 10.0 "Hg | 5 psi |
| 03A | IA-3787-2 | Modified TO-15 SIM | 10.0 "Hg | 5 psi |
| 04A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 05A | CCV | Modified TO-15 SIM | NA | NA |
| 06A | LCS | Modified TO-15 SIM | NA | NA |
| 06AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 03/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203049**

Three 6 Liter Summa Canister (SIM Certified) samples were received on March 01, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody for samples IA-3787-1, IA-DUP 1, and IA-3787-2. The year of collection was assumed to be 2012.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

**Client Sample ID: IA-3787-1**

**Lab ID#: 1203049-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.041 | 0.27 | 0.28 | 1.8 |

**Client Sample ID: IA-DUP 1**

**Lab ID#: 1203049-02A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.040 | 0.26 | 0.27 | 1.8 |

**Client Sample ID: IA-3787-2**

**Lab ID#: 1203049-03A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.040 | 0.29 | 0.27 | 1.9 |

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**Client Sample ID: IA-3787-1**

**Lab ID#: 1203049-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030314sim** | **Date of Collection: 2/26/12 10:10:00 AM** | |
| **Dil. Factor:** | **2.06** | **Date of Analysis: 3/3/12 06:26 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.021 | Not Detected | 0.053 | Not Detected |
| cis-1,2-Dichloroethene | 0.041 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.041 | Not Detected | 0.22 | Not Detected |
| Tetrachloroethene | 0.041 | 0.27 | 0.28 | 1.8 |
| trans-1,2-Dichloroethene | 0.21 | Not Detected | 0.82 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |

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**Client Sample ID: IA-DUP 1**

**Lab ID#: 1203049-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030315sim** | **Date of Collection: 2/26/12 10:10:00 AM** | |
| **Dil. Factor:** | **2.01** | **Date of Analysis: 3/3/12 07:07 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.020 | Not Detected | 0.051 | Not Detected |
| cis-1,2-Dichloroethene | 0.040 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.040 | Not Detected | 0.22 | Not Detected |
| Tetrachloroethene | 0.040 | 0.26 | 0.27 | 1.8 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.80 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

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**Client Sample ID: IA-3787-2**

**Lab ID#: 1203049-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030316sim** | **Date of Collection:** | **2/26/12 10:10:00 AM** |
| **Dil. Factor:** | **2.01** | **Date of Analysis:** | **3/3/12 07:54 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.020 | Not Detected | 0.051 | Not Detected |
| cis-1,2-Dichloroethene | 0.040 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.040 | Not Detected | 0.22 | Not Detected |
| Tetrachloroethene | 0.040 | 0.29 | 0.27 | 1.9 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.80 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203049-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030306sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 12:18 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

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

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**Client Sample ID: CCV**

**Lab ID#: 1203049-05A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030302sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 09:13 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 79 |
| cis-1,2-Dichloroethene | 82 |
| Trichloroethene | 86 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 84 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203049-06A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030303sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 09:59 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 84 |
| cis-1,2-Dichloroethene | 86 |
| Trichloroethene | 89 |
| Tetrachloroethene | 90 |
| trans-1,2-Dichloroethene | 97 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203049-06AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030304sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/3/12 10:42 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 83 |
| cis-1,2-Dichloroethene | 85 |
| Trichloroethene | 87 |
| Tetrachloroethene | 88 |
| trans-1,2-Dichloroethene | 96 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 102 | 70-130 |

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3/17/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1203061

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 3/2/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1203061

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-02 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 03/02/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 03/17/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-1501 | Modified TO-15 SIM | 8.0 "Hg | 5 psi |
| 02A | IA-DUP3 | Modified TO-15 SIM | 11.0 "Hg | 5 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: Linda D. Frumarn DATE: 03/17/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
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**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1203061**

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 02, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody for samples IA-1501 and IA-DUP3. The year of collection was assumed to be 2012.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-1501**

**Lab ID#: 1203061-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.037 | 0.82 | 0.25 | 5.5 |

**Client Sample ID: IA-DUP3**

**Lab ID#: 1203061-02A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.042 | 1.0 | 0.29 | 7.0 |

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**Client Sample ID: IA-1501**

**Lab ID#: 1203061-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030407sim** | **Date of Collection:** | **2/29/12 4:00:00 PM** |
| **Dil. Factor:** | **1.83** | **Date of Analysis:** | **3/4/12 12:57 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.018 | Not Detected | 0.047 | Not Detected |
| cis-1,2-Dichloroethene | 0.037 | Not Detected | 0.14 | Not Detected |
| Trichloroethene | 0.037 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.037 | 0.82 | 0.25 | 5.5 |
| trans-1,2-Dichloroethene | 0.18 | Not Detected | 0.72 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

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**Client Sample ID: IA-DUP3**

**Lab ID#: 1203061-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030408sim** | **Date of Collection:** | **2/29/12 4:00:00 PM** |
| **Dil. Factor:** | **2.12** | **Date of Analysis:** | **3/4/12 01:35 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.021 | Not Detected | 0.054 | Not Detected |
| cis-1,2-Dichloroethene | 0.042 | Not Detected | 0.17 | Not Detected |
| Trichloroethene | 0.042 | Not Detected | 0.23 | Not Detected |
| Tetrachloroethene | 0.042 | 1.0 | 0.29 | 7.0 |
| trans-1,2-Dichloroethene | 0.21 | Not Detected | 0.84 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1203061-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030406sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/4/12 12:04 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1203061-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030402sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/4/12 08:26 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 79 |
| cis-1,2-Dichloroethene | 82 |
| Trichloroethene | 85 |
| Tetrachloroethene | 87 |
| trans-1,2-Dichloroethene | 84 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1203061-05A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030403sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/4/12 09:02 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 82 |
| cis-1,2-Dichloroethene | 84 |
| Trichloroethene | 87 |
| Tetrachloroethene | 87 |
| trans-1,2-Dichloroethene | 95 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1203061-05AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **a030404sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/4/12 10:05 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 82 |
| cis-1,2-Dichloroethene | 84 |
| Trichloroethene | 87 |
| Tetrachloroethene | 87 |
| trans-1,2-Dichloroethene | 95 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

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5/11/2012

Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1204638

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 4/30/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1204638

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-03 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 04/30/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 05/11/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-3770 | Modified TO-15 SIM | 9.0 "Hg | 5 psi |
| 02A | IA-DUP2 | Modified TO-15 SIM | 9.5 "Hg | 5 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: Linda D. Frumarn DATE: 05/11/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1204638**

Two 6 Liter Summa Canister (SIM Certified) samples were received on April 30, 2012. 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 ATL 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**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

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

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

**Client Sample ID: IA-3770**

**Lab ID#: 1204638-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.038 | 0.70 | 0.26 | 4.7 |

**Client Sample ID: IA-DUP2**

**Lab ID#: 1204638-02A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.039 | 0.72 | 0.26 | 4.8 |

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**Client Sample ID: IA-3770**

**Lab ID#: 1204638-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050217sim** | **Date of Collection:** | **4/26/12 3:00:00 PM** |
| **Dil. Factor:** | **1.91** | **Date of Analysis:** | **5/2/12 10:14 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.049 | Not Detected |
| cis-1,2-Dichloroethene | 0.038 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.038 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.038 | 0.70 | 0.26 | 4.7 |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.76 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

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

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**Client Sample ID: IA-DUP2**

**Lab ID#: 1204638-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050218sim** | **Date of Collection:** | **4/26/12 3:00:00 PM** |
| **Dil. Factor:** | **1.96** | **Date of Analysis:** | **5/2/12 10:57 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.020 | Not Detected | 0.050 | Not Detected |
| cis-1,2-Dichloroethene | 0.039 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.039 | Not Detected | 0.21 | Not Detected |
| Tetrachloroethene | 0.039 | 0.72 | 0.26 | 4.8 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.78 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

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

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**Client Sample ID: Lab Blank**

**Lab ID#: 1204638-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 01:58 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1204638-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050202sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 09:23 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 104 |
| cis-1,2-Dichloroethene | 106 |
| Trichloroethene | 101 |
| Tetrachloroethene | 107 |
| trans-1,2-Dichloroethene | 107 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1204638-05A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 11:12 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 88 |
| cis-1,2-Dichloroethene | 94 |
| Trichloroethene | 88 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1204638-05AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 12:32 PM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 92 |
| Trichloroethene | 86 |
| Tetrachloroethene | 90 |
| trans-1,2-Dichloroethene | 102 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

eurofins | Air Toxics

5/13/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1204639

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 4/30/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1204639

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 04/30/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 05/13/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | Background-042512 | Modified TO-15 SIM | 9.0 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 05/13/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1204639**

One 6 Liter Summa Canister (SIM Certified) sample was received on April 30, 2012. 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 ATL 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**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

**Client Sample ID: Background-042512**

**Lab ID#: 1204639-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.038 | 0.040 | 0.26 | 0.27 |

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**Client Sample ID: Background-042512**

**Lab ID#: 1204639-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050219sim** | **Date of Collection:** | **4/26/12 11:30:00 AM** |
| **Dil. Factor:** | **1.91** | **Date of Analysis:** | **5/2/12 11:55 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.049 | Not Detected |
| cis-1,2-Dichloroethene | 0.038 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.038 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.038 | 0.040 | 0.26 | 0.27 |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.76 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1204639-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 01:58 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1204639-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050202sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 09:23 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 104 |
| cis-1,2-Dichloroethene | 106 |
| Trichloroethene | 101 |
| Tetrachloroethene | 107 |
| trans-1,2-Dichloroethene | 107 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1204639-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 11:12 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 88 |
| cis-1,2-Dichloroethene | 94 |
| Trichloroethene | 88 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: LCSD**

**Lab ID#: 1204639-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 12:32 PM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 92 |
| Trichloroethene | 86 |
| Tetrachloroethene | 90 |
| trans-1,2-Dichloroethene | 102 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

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5/13/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1204640

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 4/30/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1204640

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-03 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 04/30/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 05/13/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-3939 | Modified TO-15 SIM | 8.0 "Hg | 5 psi |
| 01AA | IA-3939 Lab Duplicate | Modified TO-15 SIM | 8.0 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 05/13/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1204640**

One 6 Liter Summa Canister (SIM Certified) sample was received on April 30, 2012. 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 ATL 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**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

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

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

**Client Sample ID: IA-3939**

**Lab ID#: 1204640-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.037 | 0.84 | 0.25 | 5.7 |

**Client Sample ID: IA-3939 Lab Duplicate**

**Lab ID#: 1204640-01AA**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.037 | 0.84 | 0.25 | 5.7 |

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**Client Sample ID: IA-3939**

**Lab ID#: 1204640-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050216sim** | **Date of Collection:** | **4/26/12 11:30:00 AM** |
| **Dil. Factor:** | **1.83** | **Date of Analysis:** | **5/2/12 09:29 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.018 | Not Detected | 0.047 | Not Detected |
| cis-1,2-Dichloroethene | 0.037 | Not Detected | 0.14 | Not Detected |
| Trichloroethene | 0.037 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.037 | 0.84 | 0.25 | 5.7 |
| trans-1,2-Dichloroethene | 0.18 | Not Detected | 0.72 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 97 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |

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**Client Sample ID: IA-3939 Lab Duplicate**

**Lab ID#: 1204640-01AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050224sim** | **Date of Collection:** | **4/26/12 11:30:00 AM** |
| **Dil. Factor:** | **1.83** | **Date of Analysis:** | **5/3/12 03:49 AM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.018 | Not Detected | 0.047 | Not Detected |
| cis-1,2-Dichloroethene | 0.037 | Not Detected | 0.14 | Not Detected |
| Trichloroethene | 0.037 | Not Detected | 0.20 | Not Detected |
| Tetrachloroethene | 0.037 | 0.84 | 0.25 | 5.7 |
| trans-1,2-Dichloroethene | 0.18 | Not Detected | 0.72 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| Toluene-d8 | 97 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: Lab Blank**

**Lab ID#: 1204640-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 01:58 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: CCV**

**Lab ID#: 1204640-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050202sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 09:23 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 104 |
| cis-1,2-Dichloroethene | 106 |
| Trichloroethene | 101 |
| Tetrachloroethene | 107 |
| trans-1,2-Dichloroethene | 107 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1204640-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 11:12 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 88 |
| cis-1,2-Dichloroethene | 94 |
| Trichloroethene | 88 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1204640-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 12:32 PM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 92 |
| Trichloroethene | 86 |
| Tetrachloroethene | 90 |
| trans-1,2-Dichloroethene | 102 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

eurofins | Air Toxics

5/13/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1204641

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 4/30/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1204641

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-03 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 04/30/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 05/13/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-1028 | Modified TO-15 SIM | 9.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 05/13/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1204641**

One 6 Liter Summa Canister (SIM Certified) sample was received on April 30, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody for sample IA-1028. The year of collection was assumed to be 2012.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-1028**

**Lab ID#: 1204641-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.039 | 0.065 | 0.26 | 0.44 |

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**Client Sample ID: IA-1028**

**Lab ID#: 1204641-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050225sim** | **Date of Collection: 4/26/12 5:00:00 PM** | |
| **Dil. Factor:** | **1.96** | **Date of Analysis: 5/3/12 04:43 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.020 | Not Detected | 0.050 | Not Detected |
| cis-1,2-Dichloroethene | 0.039 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.039 | Not Detected | 0.21 | Not Detected |
| Tetrachloroethene | 0.039 | 0.065 | 0.26 | 0.44 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.78 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

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

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**Client Sample ID: Lab Blank**

**Lab ID#: 1204641-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 01:58 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1204641-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050202sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 09:23 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 104 |
| cis-1,2-Dichloroethene | 106 |
| Trichloroethene | 101 |
| Tetrachloroethene | 107 |
| trans-1,2-Dichloroethene | 107 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1204641-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 11:12 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 88 |
| cis-1,2-Dichloroethene | 94 |
| Trichloroethene | 88 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1204641-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 12:32 PM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 92 |
| Trichloroethene | 86 |
| Tetrachloroethene | 90 |
| trans-1,2-Dichloroethene | 102 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

eurofins | Air Toxics

5/13/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1204642

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 4/30/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1204642

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-03 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 04/30/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 05/13/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-4878 | Modified TO-15 SIM | 10.5 "Hg | 5 psi |
| 02A | IA-DUP1 | Modified TO-15 SIM | 10.0 "Hg | 5 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: Linda D. Frumarn DATE: 05/13/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1204642**

Two 6 Liter Summa Canister (SIM Certified) samples were received on April 30, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody for sample IA-DUP1. The year of collection was assumed to be 2012.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-4878**

**Lab ID#: 1204642-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.041 | 2.0 | 0.28 | 14 |

**Client Sample ID: IA-DUP1**

**Lab ID#: 1204642-02A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.040 | 2.1 | 0.27 | 14 |

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**Client Sample ID: IA-4878**

**Lab ID#: 1204642-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050222sim** | **Date of Collection:** | **4/26/12 4:00:00 PM** |
| **Dil. Factor:** | **2.06** | **Date of Analysis:** | **5/3/12 02:10 AM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.021 | Not Detected | 0.053 | Not Detected |
| cis-1,2-Dichloroethene | 0.041 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.041 | Not Detected | 0.22 | Not Detected |
| Tetrachloroethene | 0.041 | 2.0 | 0.28 | 14 |
| trans-1,2-Dichloroethene | 0.21 | Not Detected | 0.82 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 97 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: IA-DUP1**

**Lab ID#: 1204642-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050223sim** | **Date of Collection: 4/26/12 4:00:00 PM** | |
| **Dil. Factor:** | **2.01** | **Date of Analysis: 5/3/12 02:59 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.020 | Not Detected | 0.051 | Not Detected |
| cis-1,2-Dichloroethene | 0.040 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.040 | Not Detected | 0.22 | Not Detected |
| Tetrachloroethene | 0.040 | 2.1 | 0.27 | 14 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.80 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: Lab Blank**

**Lab ID#: 1204642-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 01:58 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: CCV**

**Lab ID#: 1204642-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050202sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 09:23 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 104 |
| cis-1,2-Dichloroethene | 106 |
| Trichloroethene | 101 |
| Tetrachloroethene | 107 |
| trans-1,2-Dichloroethene | 107 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: LCS**

**Lab ID#: 1204642-05A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 11:12 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 88 |
| cis-1,2-Dichloroethene | 94 |
| Trichloroethene | 88 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: LCSD**

**Lab ID#: 1204642-05AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 12:32 PM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 92 |
| Trichloroethene | 86 |
| Tetrachloroethene | 90 |
| trans-1,2-Dichloroethene | 102 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

eurofins | Air Toxics

5/13/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1204643

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 4/30/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1204643

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-03 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 04/30/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 05/13/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-1567 | Modified TO-15 SIM | 10.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 05/13/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1204643**

One 6 Liter Summa Canister (SIM Certified) sample was received on April 30, 2012. 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 ATL 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

Sample collection date was incomplete on the Chain of Custody for sample IA-1567. The year of collection was assumed to be 2012.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

**Client Sample ID: IA-1567**

**Lab ID#: 1204643-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.041 | 7.2 | 0.28 | 49 |

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**Client Sample ID: IA-1567**

**Lab ID#: 1204643-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050226sim** | **Date of Collection: 4/26/12 6:00:00 PM** | |
| **Dil. Factor:** | **2.06** | **Date of Analysis: 5/3/12 05:34 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.021 | Not Detected | 0.053 | Not Detected |
| cis-1,2-Dichloroethene | 0.041 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.041 | Not Detected | 0.22 | Not Detected |
| Tetrachloroethene | 0.041 | 7.2 | 0.28 | 49 |
| trans-1,2-Dichloroethene | 0.21 | Not Detected | 0.82 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 97 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1204643-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 01:58 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1204643-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050202sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 09:23 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 104 |
| cis-1,2-Dichloroethene | 106 |
| Trichloroethene | 101 |
| Tetrachloroethene | 107 |
| trans-1,2-Dichloroethene | 107 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1204643-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 11:12 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 88 |
| cis-1,2-Dichloroethene | 94 |
| Trichloroethene | 88 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1204643-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 12:32 PM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 92 |
| Trichloroethene | 86 |
| Tetrachloroethene | 90 |
| trans-1,2-Dichloroethene | 102 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

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5/13/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1204644

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 4/30/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1204644

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-03 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 04/30/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 05/13/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-3313 | Modified TO-15 SIM | 11.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 05/13/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1204644**

One 6 Liter Summa Canister (SIM Certified) sample was received on April 30, 2012. 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 ATL 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**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

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

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

**Client Sample ID: IA-3313**

**Lab ID#: 1204644-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.022 | 0.029 | 0.055 | 0.075 |
| Tetrachloroethene | 0.043 | 1.6 | 0.29 | 11 |

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**Client Sample ID: IA-3313**

**Lab ID#: 1204644-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050220sim** | **Date of Collection:** | **4/26/12 10:30:00 AM** |
| **Dil. Factor:** | **2.17** | **Date of Analysis:** | **5/3/12 12:40 AM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.022 | 0.029 | 0.055 | 0.075 |
| cis-1,2-Dichloroethene | 0.043 | Not Detected | 0.17 | Not Detected |
| Trichloroethene | 0.043 | Not Detected | 0.23 | Not Detected |
| Tetrachloroethene | 0.043 | 1.6 | 0.29 | 11 |
| trans-1,2-Dichloroethene | 0.22 | Not Detected | 0.86 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1204644-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 01:58 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1204644-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050202sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 09:23 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 104 |
| cis-1,2-Dichloroethene | 106 |
| Trichloroethene | 101 |
| Tetrachloroethene | 107 |
| trans-1,2-Dichloroethene | 107 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1204644-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 11:12 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 88 |
| cis-1,2-Dichloroethene | 94 |
| Trichloroethene | 88 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1204644-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 12:32 PM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 92 |
| Trichloroethene | 86 |
| Tetrachloroethene | 90 |
| trans-1,2-Dichloroethene | 102 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

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5/13/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1204645

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 4/30/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1204645

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-03 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 04/30/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 05/13/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-2759 | Modified TO-15 SIM | 9.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 05/13/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1204645**

One 6 Liter Summa Canister (SIM Certified) sample was received on April 30, 2012. 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 ATL 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**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

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

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

**Client Sample ID: IA-2759**

**Lab ID#: 1204645-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.039 | 0.73 | 0.26 | 5.0 |

eurofins | Air Toxics

**Client Sample ID: IA-2759**

**Lab ID#: 1204645-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050221sim** | **Date of Collection:** | **4/26/12 10:40:00 AM** |
| **Dil. Factor:** | **1.96** | **Date of Analysis:** | **5/3/12 01:24 AM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.020 | Not Detected | 0.050 | Not Detected |
| cis-1,2-Dichloroethene | 0.039 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.039 | Not Detected | 0.21 | Not Detected |
| Tetrachloroethene | 0.039 | 0.73 | 0.26 | 5.0 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.78 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 97 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1204645-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 01:58 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: CCV**

**Lab ID#: 1204645-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050202sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 09:23 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 104 |
| cis-1,2-Dichloroethene | 106 |
| Trichloroethene | 101 |
| Tetrachloroethene | 107 |
| trans-1,2-Dichloroethene | 107 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: LCS**

**Lab ID#: 1204645-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 11:12 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 88 |
| cis-1,2-Dichloroethene | 94 |
| Trichloroethene | 88 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1204645-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 12:32 PM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 92 |
| Trichloroethene | 86 |
| Tetrachloroethene | 90 |
| trans-1,2-Dichloroethene | 102 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

eurofins | Air Toxics

5/13/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1204646

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 4/30/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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# WORK ORDER #: 1204646

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-03 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 04/30/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 05/13/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-2681 | Modified TO-15 SIM | 8.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 05/13/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1204646**

One 6 Liter Summa Canister (SIM Certified) sample was received on April 30, 2012. 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 ATL 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**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

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

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

**Client Sample ID: IA-2681**

**Lab ID#: 1204646-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Trichloroethene | 0.037 | 0.082 | 0.20 | 0.44 |
| Tetrachloroethene | 0.037 | 0.36 | 0.25 | 2.4 |

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**Client Sample ID: IA-2681**

**Lab ID#: 1204646-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050227sim** | **Date of Collection: 4/26/12 12:15:00 PM** | |
| **Dil. Factor:** | **1.87** | **Date of Analysis: 5/3/12 06:20 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.019 | Not Detected | 0.048 | Not Detected |
| cis-1,2-Dichloroethene | 0.037 | Not Detected | 0.15 | Not Detected |
| Trichloroethene | 0.037 | 0.082 | 0.20 | 0.44 |
| Tetrachloroethene | 0.037 | 0.36 | 0.25 | 2.4 |
| trans-1,2-Dichloroethene | 0.19 | Not Detected | 0.74 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 97 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1204646-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 01:58 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

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**Client Sample ID: CCV**

**Lab ID#: 1204646-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050202sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 09:23 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 104 |
| cis-1,2-Dichloroethene | 106 |
| Trichloroethene | 101 |
| Tetrachloroethene | 107 |
| trans-1,2-Dichloroethene | 107 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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**Client Sample ID: LCS**

**Lab ID#: 1204646-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 11:12 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 88 |
| cis-1,2-Dichloroethene | 94 |
| Trichloroethene | 88 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

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**Client Sample ID: LCSD**

**Lab ID#: 1204646-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 12:32 PM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 92 |
| Trichloroethene | 86 |
| Tetrachloroethene | 90 |
| trans-1,2-Dichloroethene | 102 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

eurofins | Air Toxics

5/13/2012
Mr. James Elliot
Tetra Tech
301 Mentor Drive
Suite A
Santa Barbara CA 93111

Project Name: Paradise Palms
Project #:
Workorder #: 1204647

Dear Mr. James Elliot

The following report includes the data for the above referenced project for sample(s) received on 4/30/2012 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 Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

eurofins | Air Toxics

# WORK ORDER #: 1204647

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 | **BILL TO:** | Mr. James Elliot<br>Tetra Tech<br>301 Mentor Drive<br>Suite A<br>Santa Barbara, CA 93111 |
| **PHONE:** | 805-681-3100x167 | **P.O. #** | 100-SBA-T28919-03 |
| **FAX:** | 805-681-3108 | **PROJECT #** | Paradise Palms |
| **DATE RECEIVED:** | 04/30/2012 | **CONTACT:** | Kyle Vagadori |
| **DATE COMPLETED:** | 05/13/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | IA-2124 | Modified TO-15 SIM | 9.5 "Hg | 5 psi |
| 02A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 03A | CCV | Modified TO-15 SIM | NA | NA |
| 04A | LCS | Modified TO-15 SIM | NA | NA |
| 04AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 05/13/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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

**LABORATORY NARRATIVE**
**Modified TO-15 SIM**
**Tetra Tech**
**Workorder# 1204647**

One 6 Liter Summa Canister (SIM Certified) sample was received on April 30, 2012. 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 ATL 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**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

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

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

**Client Sample ID: IA-2124**

**Lab ID#: 1204647-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Tetrachloroethene | 0.039 | 5.7 | 0.26 | 39 |

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**Client Sample ID: IA-2124**

**Lab ID#: 1204647-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050228sim** | **Date of Collection: 4/26/12 9:30:00 AM** | |
| **Dil. Factor:** | **1.96** | **Date of Analysis: 5/3/12 07:05 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.020 | Not Detected | 0.050 | Not Detected |
| cis-1,2-Dichloroethene | 0.039 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.039 | Not Detected | 0.21 | Not Detected |
| Tetrachloroethene | 0.039 | 5.7 | 0.26 | 39 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.78 | Not Detected |

**Container Type: 6 Liter Summa Canister (SIM Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 97 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: Lab Blank**

**Lab ID#: 1204647-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050207sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 01:58 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: CCV**

**Lab ID#: 1204647-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050202sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 09:23 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 104 |
| cis-1,2-Dichloroethene | 106 |
| Trichloroethene | 101 |
| Tetrachloroethene | 107 |
| trans-1,2-Dichloroethene | 107 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: LCS**

**Lab ID#: 1204647-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050204sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 11:12 AM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 88 |
| cis-1,2-Dichloroethene | 94 |
| Trichloroethene | 88 |
| Tetrachloroethene | 92 |
| trans-1,2-Dichloroethene | 104 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

eurofins | Air Toxics

**Client Sample ID: LCSD**

**Lab ID#: 1204647-04AA**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **e050205sim** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 5/2/12 12:32 PM** | |

| Compound | %Recovery |
|---|---|
| Vinyl Chloride | 86 |
| cis-1,2-Dichloroethene | 92 |
| Trichloroethene | 86 |
| Tetrachloroethene | 90 |
| trans-1,2-Dichloroethene | 102 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

## APPENDIX C - Chain of Custody Forms

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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

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



Project Manager James Elliot
**Collected by:** (Print and Sign) John Felts
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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) |
|---|---|---|---|---|---|---|---|---|---|
| 01 | IA-2838 | 3447 5 | 2/25-2/26 | 1600-1500 | TO-15 SIM | -28.0 | -7.0 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/28/12 1600 | [signature] ATL | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED EX | | NA | Good | Yes No (None) | 1203028 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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

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



Project Manager James Elliot
**Collected by:** (Print and Sign) John Felts
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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) |
|---|---|---|---|---|---|---|---|---|---|
| 01 | IA-4263 | 25276 | 2/25-2/26 | 1300-1200 | TO-15 SIM | -2.5 | -4 | | |
| | | | | | | | | | |
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| | | | | | | | | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| | 2/28/12 1600 | AR | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FedEx | | NA | OK | Yes No None | 103031 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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



Project Manager James Elliot

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Company Tetra Tech Email james.elliot@tetratech.com

Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111

Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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) |
|---|---|---|---|---|---|---|---|---|---|
| 011 | IA-2498 | 3354O | 2/25-2/26 | 1100-1000 | TO-15 SIM | -29.5 | [illegible] | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/26/12 1600 | [signature] AIR | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

**Lab Use Only**

| Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|
| FED EX | | NA | GOOD | Yes No (None) | 1203032 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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



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Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-4691 | 1411 | 2/25-2/2[illegible] | [illegible]-0900 | TO-15 SIM | -27.5 | -7.[illegible] | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| | 2/28/12 1600 | [illegible] AR | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FedEx | | NA | Good | Yes No None | 1203033 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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



Project Manager James Elliot
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Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-3029 | 33656 | 2/25-2/26 | 1500-1400 | TO-15 SIM | -27.0 | -6.0 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/28/12 1600 | [signature] MTZ | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED Ex | | NA | [signature] | Yes No (None) | L1203089 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020



Project Manager James Elliot

**Collected by:** (Print and Sign) John Felts

Company Tetra Tech Email james.elliot@tetratech.com

Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111

Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-4638 | 13859 | 2/25-2/26 | 1700-1600 | TO-15 SIM | -30.0 | -9.5 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/28/12 1600 | [signature] ATL | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED EX | | N/A | [signature] | Yes No (None) | 1203041 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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



Project Manager James Elliot
**Collected by:** (Print and Sign) John Fells
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | Background - 022512 | 33549 | 2/25-2/26 | 13[illegible] 1200 | TO-15 SIM | -29.0 | -7.5 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/28/12 1600 | [signature] AIR | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED EX | | N/A | Cool | Yes No (None) | 103044 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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



Project Manager James Elliot
**Collected by:** (Print and Sign) John Felts
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | I.A-[illegible] | 33538 | 2/25-2/26 | 1400-1310 | TO-15 SIM | -29.5 | -7.5 | | |
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JF

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/28/12 1600 | [signature] AIR | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED EX | | NA | [signature] | Yes No (None) | J3045 |

Form 1293 rev.11

# Air Toxics LTD.

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020



Project Manager James Elliot
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Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-3787-1 | 5783 | 2/25-2/26 | 1200-1010 | TO-15 SIM | -29.5 | -6.5 | | |
| 02A | IA-DUP 1 | 12716 | 2/25-2/26 | 1200-1010 | TO-15 SIM | -27.5 | -9.5 | | |
| 03A | IA-3787-2 | 22677 | 2/25-2/26 | 1200-1010 | TO-15 SIM | -29.0 | -7.0 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/28/12 1600 | [signature] FedEx | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FedEx | | Not Recd | | Yes No (None) | 1203045 |

Form 1293 rev.11

# Air Toxics LTD.

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**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-4721 | 4242 | 2/26-2/27 | 1700-1630 | TO-15 SIM | -29.0 | -7.0 | | |
| 02A | IA-0UP2 | ~~34578~~ (SF) | 2/26-2/27 | 1700-1630 | TO-15 SIM | -28.0 | -7.0 | | |
| | | 34387 | | | | | | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/28/12 1600 | [signature] ATL | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED Ex | | 16 | Good | Yes No None | 3030 |

Form 1293 rev.11

# Air Toxics LTD.

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**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-4728 | 926 | 2/26-2/27 | 1300-1200 | TO-15 SIM | -28.5 | -5.5 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| | 2/28/12 1600 | AR | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED EX | | NA | | Yes No None | 103034 |

Form 1293 rev.11

# Air Toxics LTD.

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Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-2301 | 940 | 2/26/12-2/27 | 1600-1500 | TO-15 SIM | -28.0 | -7.0 | | |

Relinquished by: (signature) Date/Time 2/28/12 1600
Received by: (signature) Date/Time 3/1/12 0900

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

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

**Notes:**

**Lab Use Only**

| Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|
| FedEx | | NA | Good | Yes No None | 1203040 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

**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 James Elliot
**Collected by:** (Print and Sign) John Fellis
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-3987 | 23926 | 2/27-2/28 | 0900-0830 | TO-15 SIM | -28.0 | -7.0 | | |

JF

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/28/12 1600 | [signature] FAR | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

**Lab Use Only**

| Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|
| FED EX | | NA | OK | Yes No (None) | 303024 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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**180 BLUE RAVINE ROAD, SUITE B**
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**(916) 985-1000 FAX (916) 985-1020**



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**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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) |
|---|---|---|---|---|---|---|---|---|---|
| 6A | IA-4129 | 33527 | 2/27-2/28 | 1030-0930 | TO-15 SIM | -28.0 | -4.5 | | |

Relinquished by: (signature) Date/Time 2/28/12 1600 — Received by: (signature) Date/Time AR 3/1/12 0900
Relinquished by: (signature) Date/Time — Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time — Received by: (signature) Date/Time

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED EX | | NA | | Yes No None | 103025 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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**FOLSOM, CA 95630-4719**
**(916) 985-1000 FAX (916) 985-1020**



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Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-4523 | 31433 | 2/27-2/28 | 0830-0800 | TO-15 SIM | -27.5 | -7.0 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| | 2/28/12 1600 | | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED EX | | 4° | GOOD | Yes No (None) | 13026 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020



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Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | Background-022712 | 33915 | 2/27-2/28 | 0830-0800 | TO-15 SIM | -29.0 | -9.5 | | |

Relinquished by: (signature) Date/Time 2/28/12 1600
Received by: (signature) Date/Time 3/1/12 0900

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

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

**Notes:** Sample may contain moisture because of scattered and isolated showers/rain overnight

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | UPS | | NA | Good | Yes No None | 103027 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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



Project Manager James Elliot
**Collected by:** (Print and Sign) John Felts
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-2093 | 5482 | 2/27-2/28 | 1130-1030 | TO-15 SIM | -28.0 | -9.0 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/29/12 1500 | [signature] AR | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED EX | | NA | Good | Yes No None | 1203035 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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



Project Manager James Elliot
**Collected by:** (Print and Sign) John Felts
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-3882 | 34197 | 2/27-2/28 | 1500-1400 | TO-15 SIM | -28.0 | -8.0 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/29/12 1500 | [signature] ATL | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FEDEX | | NA | Good | Yes No None | 1203036 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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



Project Manager James Elliot

**Collected by:** (Print and Sign) John Felts

Company Tetra Tech Email james.elliot@tetratech.com

Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111

Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-1553 | 5708 | 2/27-2/28 | 1730-1630 | TO-15 SIM | -28.0 | -8.0 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/29/12 1500 | [signature] | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED EX | | NA | GOOD | Yes No (None) | 13042 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020



Project Manager James Elliot
**Collected by:** (Print and Sign) John Felts
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-3330 | 9921 | 2/27-2/28 | 1400-1720 | TO-15 SIM | -27.5 | -5.0 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| | 2/29/12 1500 | AR | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED EX | | NA | Good | Yes No (None) | 1203043 |

TBW 3/2/12

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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



Project Manager James Elliot
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Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | Background - 022612 | 20938 | 2/26-2/27 | 1300-1200 | TO-15 SIM | -28.0 | -5.5 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/28/12 1600 | [signature] ATL | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | [illegible] | | [illegible] | [illegible] | Yes No None | J3040 |

Form 1293 rev.11

# Air Toxics LTD.

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



Project Manager James Elliot
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Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-1643 | 12003 | 2/28-2/29 | 1000-0900 | TO-15 SIM | -28.5 | -5.5 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| | 2/29/12 1500 | | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED EX | | N/A | OK | Yes No None | 12030 29 |

Form 1293 rev.11

# Air Toxics LTD.

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



Project Manager James Elliot

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Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | Background-022812 | 13668 | 2/28-2/29 | 1000-0900 | TO-15 SIM | -28.5 | -5.5 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| | 2/29/12 1500 | | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED EX | | N/A | Cool | Yes No (None) | 3037 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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**FOLSOM, CA 95630-4719**
**(916) 985-1000 FAX (916) 985-1020**



Project Manager James Elliot

**Collected by:** (Print and Sign) John Felts

Company Tetra Tech Email james.elliot@tetratech.com

Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111

Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-4774 | 1566 | 2/28-2/29 | 1100-1000 | TO-15 SIM | -29.0 | -8.5 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/29/12 1500 | [signature] PTL | 3/1/12 0900 |
| | | | |
| | | | |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED EX | | NA | Good | Yes No None | 303 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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

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



Project Manager James Elliot
**Collected by:** (Print and Sign) John Fells
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-1106 | 33789 | 2/28-2/29 | 1130-1030 | TO-15 SIM | -29.0 | -9.0 | | |

Relinquished by: (signature) Date/Time: 2/29/12 1500
Received by: (signature) Date/Time: AR 3/1/12 0900
Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED Ex | | N/A | OK | Yes No (None) | 1203047 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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



Project Manager James Elliot

**Collected by:** (Print and Sign) John Felts

Company Tetra Tech Email james.elliot@tetratech.com

Address 801 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111

Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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 | IA-3253 | 33935 | 2/28-2/29 | 1230-1130 | TO-15 SIM | -27.0 | -5.5 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 2/29/12 1500 | [signature] ATC | 3/1/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | FED EX | | NA | SCD | Yes No None | 1204 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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



Project Manager James Elliot
**Collected by:** (Print and Sign) John Fells
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-02
Project # _____
Project Name Paradise Palms

**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) |
|---|---|---|---|---|---|---|---|---|---|
| CLT | IA-1501 | 9543 | 2/28-2/29 | 1715-1600 | TO-15 SIM | -28.0 | -6.0 | | |
| CLT | IA-0UP3 | 3745 | 2/28-2/29 | 1715-1600 | TO-15 SIM | -28.0 | -8.5 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 3/1/12 1100 | [signature] | 3.2.12 0915 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | [illegible] | | [illegible] | [illegible] | Yes No None | 1203061 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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



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Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-03 cdm
Project # _____
Project Name Paradise Palms

**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 | IA-3770 | 5703 | 4/25/12-4/26/12 | 1600-1500 | TO-15 SIM | -29.0 | -8.5 | | |
| 02A | IA-DUP2 | 35982 | 4/25-4/26 | 1600-1500 | TO-15 SIM | -28.0 | -7.0 | | |

JF

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 4/27/12 0900 | [signature] FedEx | 4/30/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

**Lab Use Only**

| Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|
| Fedex | | N/A | Normal | Yes No None | 1204634 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020



Project Manager James Elliot
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Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Ave, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-03
Project # _____
Project Name Paradise Palms

**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 | Background-042512 | 12666 | 4/25/12-4/26/12 | 1200-1130 | TO-15 SIM | -28.5 | -6.5 | | |

Relinquished by: (signature) Date/Time 4/27/12 0900
Received by: (signature) Date/Time BWhitsett AIC 4/30/12 0900

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

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

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | Fedex | | N/A | Good | Yes No (None) | 1204639 |

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# Air Toxics LTD.

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



Project Manager James Elliot
**Collected by:** (Print and Sign) John Felts
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Ave, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SB1-T28919-03
Project # cdm
Project Name Paradise Palms

**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 | IA-3939 | 35286 | 4/25/12-4/26/12 | 1200-1130 | TO-15 SIM | -28.5 | -6.0 | | |

JF

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| | 4/27/12 0900 | B. Schuttelaar AFC | 4/30/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | Fedex | | N/A | Good | Yes No None | 120416-10 |

Form 1293 rev.11

# Air Toxics LTD.

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



Project Manager James Elliot
**Collected by:** (Print and Sign) John Felts
Company Tetra Tech Email jamese lliot@tetratech.
Address 301 Mentor Ave, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-584-T28919-03 cdm
Project #
Project Name Paradise Palms

**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 | IA-1028 | 35136 | 4/25-4/26 | 1730-1700 | TO-15 SIM | -28.0 | -7.5 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| | 4/27/12 0900 | Barbara Sutton AZC | 4/30/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | Fedex | | n/a | Good | Yes No (None) | 1204611 |

Form 1293 rev.11

# Air Toxics LTD.

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



Project Manager James Elliot

**Collected by:** (Print and Sign) John Fellis

Company Tetra Tech Email james.elliot@tetratech.com

Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111

Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T20919-03
Project # [blank]
Project Name Paradise Palms

**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 | IA-4878 | 12680 | 4/25/12-4/26/12 | 1701 | TO-15 SIM | -28.5 | -9.5 | | |
| 02A | IA-DUP1 | 13858 | 4/25-4/26 | 1700-1654 | TO-15 SIM | -29.0 | -8.5 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| [signature] | 4/27/12 0900 | B. Wuttke AIR | 4/30/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | [signature] | | 13 | Good | Yes No (None) | 1204643 |

Form 1293 rev.11

# Air Toxics LTD.

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020



Project Manager James Elliot
**Collected by:** (Print and Sign) John Felts
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T20919-03
Project # edm
Project Name Paradise Palms

**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 | IA-1567 | 5719 | 4/25-4/26 | 1830-1800 | TO-15 SIM | -29.0 | -9.5 | | |

JF

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| | 4/27/12 0900 | B. Whitaker #72 | 4/30/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | Fedex | | N/A | Good | Yes No None | 12041153 |

Form 1293 rev.11

# Air Toxics LTD.

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



Project Manager James Elliot
**Collected by:** (Print and Sign) John Felts
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Ave, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SB4-T20919-03
Project # _____
Project Name Paradise Palms

**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 | IA-3313 | 35996 | 4/25/12-4/26 | 1100-1030 | TO-15 SIM | -29.0 | -10.0 | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| | 4/27/12 0900 | B. Whittaker ATL | 4/30/12 0900 |
| | | | |
| | | | |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | Fedex | | N/A | Good | Yes No (None) | 120426AA |

Form 1293 rev.11

# Air Toxics LTD.

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020



Project Manager James Elliot
**Collected by:** (Print and Sign) John Fellis
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Drive, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T20914-03
Project # _____
Project Name Paradise Palms

**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 | IA-2759 | 3435 | 4/25/12-4/26/12 | 1115-1040 | TO-15 SIM | -30,0 | -5 | | |

JF

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| | 4/27/12 0900 | | 4/30/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | | | 8.5 | Good | Yes No None | 12046[illegible] |

Form 1293 rev.11

# Air Toxics LTD.

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



Project Manager James Elliot

**Collected by:** (Print and Sign) John Felts

Company Tetra Tech Email james.elliot@tetratech.com

Address 301 Mentor Ave, Suite A City Santa Barbara State CA Zip 93111

Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-SBA-T28919-03 cdm
Project # _____
Project Name Paradise Palms

**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) |
|---|---|---|---|---|---|---|---|---|---|
| 014 | I-2681 | 34429 | 4/25/12-4/26/12 | 1230-1215 | TO-15 SIM | -28.0 | -6.5 | | |

JT

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
|---|---|---|---|
| | 4/27/12 0900 | | 4/27/12 0900 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time |

**Notes:**

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | Fedex | | 10.2 | | Yes No ~~None~~ | 120446 |

Form 1293 rev.11

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

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

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



Project Manager James Elliot
**Collected by:** (Print and Sign) John Felts
Company Tetra Tech Email james.elliot@tetratech.com
Address 301 Mentor Ave, Suite A City Santa Barbara State CA Zip 93111
Phone (805) 681-1355 Fax (805) 681-3108

**Project Info:**
P.O. # 100-584-T20919-03
Project # _____
Project Name Paradise Palms

**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 | IA-2124 | 20948 | 4/25-4/26 | 1000-0930 | TO-15 SIM | -29.5 | -9.5 | | |

Relinquished by: (signature) Date/Time 4/27/12 0900
Received by: (signature) Date/Time B. Matthews for 4/30/12 0900

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

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

**Notes:**

**Lab Use Only**

| Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|
| Fedex | | N/A | Good | Yes No (None) | [illegible] |

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