# Countywide Recycling & Disposal Facility
# Ambient Air Monitoring
# Monthly Report #4

September 20, 2007

**To Fulfill the Requirements Set Forth in Order 5.A. of the Ohio EPA Director's Findings and Orders Dated March 28, 2007**

**Republic Services of Ohio II, LLC**
**Countywide Recycling & Disposal Facility**
**3619 Gracemont Street SW**
**East Sparta, Ohio 44262**

Prepared by
Lawhon & Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081

**Countywide Recycling & Disposal Facility**
**Ambient Air Monitoring**
**Monthly Report #4**
**September 20, 2007**
**Monitoring Events #13 through 16**

## 1.0 INTRODUCTION

Beginning on Monday May 21, 2007 ambient air sampling is being conducted every six days as mandated by Order 5.A. of the Ohio EPA Director's Findings and Orders dated March 28, 2007. This report covers the analytical results from the following Monitoring Events.

Event #13: Thursday August 2 to Friday August 3.
Event #14: Wednesday August 8 to Thursday August 9.
Event #15: Tuesday August 14 to Wednesday August 15.
Event #16: Monday August 20 to Tuesday August 21.

Air samples were collected over a 24-hour period at four locations: Bolivar Elementary School; the cell tower on the Countywide facility; near the top of the hill at the KOA campground to the northeast of the landfill; and near the small bridge along the road that borders the wetland area immediately to the east of the landfill (Figure 1). The road is the specified route for the trucks entering Countywide facility. The wetland is consistently in the area of maximum impact predicted by the air model. Since there are no people working or residing in the wetland, it is being considered a temporary location until such time as the Agency specifies a fourth permanent monitoring location. The campground is also frequently in the area of impact predicted by the air model.

As specified by the Ohio EPA in Bryan Zima's March 28, 2007 letter to Jason Perdion of Baker & Hostetler, air samples were analyzed for the following groups of compounds:

- Volatile Organic Compounds (VOCs): EPA Method TO-15 modified with Tentatively Identified Compounds (TICs)
- Sulfur Compounds: EPA Method TO-15 modified
- Aldehydes and Ketones: EPA Method TO-11A
- Hydrogen Fluoride and Hydrogen Chloride: NIOSH Method 7903

All analyses were performed by Integrated Analytical Laboratory (IAL), Randolph, NJ. Certification numbers: ELAP-11402; NJDEP-14751; AIHA-100201.

As a conservative first evaluation, the concentrations of chemicals detected in the air samples were compared to the corresponding USEPA Region 9 Preliminary Remediation Goals (PRGs). The USEPA Region 9 PRG is the concentration of a chemical in the ambient air that is estimated to be without significant risk to a person who would breathe

that level of chemical continuously over many decades. The Region 9 PRGs are derived using conservative mathematical formulas and do not represent the level of a chemical in the air (or other environmental media) where health effects are likely to occur. Region 9 PRGs are generally accepted as conservative screening values, such that if the concentration of a chemical in the air is less than the corresponding PRG, most public health officials and regulators are confident that there is no risk to human health. On the other hand, an analytical result that exceeds the corresponding PRG does not mean that there is an unacceptable risk to public health. The chemical that were detected in these Monitoring Events are commonly found at low levels in ambient air. For some compounds such as benzene, the mathematically-derived Region 9 PRG of 0.25 ug/$m^3$ is lower than the average background concentration of 1.96 ug/$m^3$ in ambient air in Ohio (Ohio EPA, *Portsmouth Ohio Air Quality Study 2003*). Consequently, finding certain chemicals in ambient air at levels above PRGs that are very close to analytical detection limits is not uncommon and may simply reflect fluctuations in background sources. It should be noted that not all of the compounds found in the air samples have corresponding PRGs.

Ambient environmental/climate conditions are discussed in Section 2.0. Results of the monitoring are discussed in Section 3.0 and summarized in Section 4.0 of this report. Analytical results from the laboratory are provided in the Appendices.

## 2.0 AMBIENT CONDITIONS

The descriptions of ambient conditions are taken from the Daily Odor Monitoring Summary compiled by Countywide's consultant, Diversified Engineering.

Event #13, August 02/03, 2007:
Average temperature in degrees F: 77, Max. 89, Min. 66
Winds were calm with maximum speeds of 8 mph out of the S.
Average relative humidity 78% with fog. No precipitation.
Complaints: One complaint from a resident at the Briggle Avenue, East Sparta at approximately 10:11 AM on 8/2. Anchor trenching in area C, completion of a 24-inch main header line, rotosonic drilling, and leachate pump maintenance was being conducted at the time.

Event #14, August 08/09, 2007:
Average temperature in degrees F: 82, Max. 90, Min. 73
Winds were calm with maximum speeds of 10 mph out of the WSW.
Average relative humidity: 78%. Rain and thunderstorms.
Complaints: None.

Event #15: August 14/15, 2007:
Average temperature in degrees F: 64, Max. 78, Min. 51
Winds were calm with maximum speeds of 6 mph out of the SW.
Average relative humidity was 100% with fog.
Complaints: None.

Event #16: August 20/21, 2007:
Average temperature in degrees F: 67, Max. 75, Min. 59
Winds average 2 mph with maximum speeds of 17 mph out of the SE/SW.
Average relative humidity was 90% with no rain and thunderstorms.
Complaints: None.

## 3.0 ANALYTICAL RESULTS

The laboratory analyzed the air samples for a large number of chemicals. Only those results that exceeded Region 9 PRGs will be discussed in the body of the report. Other compounds may have been detected in a sample, but were quantified at concentrations below the respective PRG. All of the analytical results from the laboratory are provided in the Appendices.

### 3.1 Volatile Organic Compounds

Compounds detected by Method TO-15 modified are summarized in Tables 1 through 4. Method TO-15 analyzes air samples collected in a summa canister for the presence of an extensive list of volatile organic compounds. In addition to a "standard analyte" list, this method also has the capability to tentatively identify and estimate the concentration of numerous compounds that are not on the "standard" list. These Tentatively Identified Compounds (TICs) include some compounds for which there are other specific analytical methods. Of particular relevance to interpreting the data from this monitoring effort is the fact that Method TO-15 identifies acetaldehyde, a carbonyl compound that is a specific target for Method TO-11A. All results for acetaldehyde will be discussed in Section 3.3. Data reports from the analytical laboratory are provided in the Appendices. Results that exceeded corresponding Region 9 PRGs and any other relevant findings are discussed below. Chemicals that were detected below PRGs will not be discussed unless those particular results help to explain other findings.

Event #13, August 02/03, 2007:
Analytical results for Method TO-15 for Event #13 are summarized in Table 1 and provided in Appendix A. Two compounds were measured at levels above their respective PRGs.

**Event #13: VOCs Detected Above PRGs**
**Concentrations in ug/m3**

| Compound | PRG | School | Cell Tower | Campground | Wetland |
|---|---|---|---|---|---|
| Methylene chloride | **4.1** | **45** | 3.2 | ND | 4.5 |
| Acetonitrile (TIC) | **62** | **77** | 12 | **97** | 8.9 |

Event #14, August 08/09, 2007:
Analytical results for Method TO-15 for Event #14 are summarized in Table 2 and provided in Appendix B. No VOCs were detected at concentrations exceeding PRGs.

Event #15, August 15/16, 2007:
Analytical results for Method TO-15 for Event #15 are summarized in Table 3 and provided in Appendix C. One compound was measured at levels above its respective PRG.

**Event #15: VOCs Detected Above PRGs**
**Concentrations in ug/m3**

| Compound | PRG | School | Cell Tower | Campground | Wetland |
|---|---|---|---|---|---|
| Acetonitrile (TIC) | **62** | **129** | 8.9 | 25 | 54 |

Event #16, August 20/21, 2007:
Analytical results for Method TO-15 for Event #116 are summarized in Table 4 and provided in Appendix D. One compound was measured at levels above its respective PRG.

**Event #16: VOCs Detected Above PRGs**
**Concentrations in ug/m3**

| Compound | PRG | School | Cell Tower | Campground | Wetland |
|---|---|---|---|---|---|
| Acetonitrile (TIC) | **62** | **82** | ND | ND | **72** |

### 3.2 Sulfur Compounds

No sulfur compounds were detected at any location during these three monitoring events.

### 3.3 Aldehydes and Ketones

In order to obtain a continuous 24 hours of data, three separate gel collection tubes were sequentially exposed to ambient air for a period of approximately 8 hours each. Consequently there are three separate sample results for each location for each monitoring event.

Event #13, August 02/03, 2007:
Analytical results for aldehydes are summarized below. Formaldehyde was detected in one sample from the school, three samples from the cell tower, and two samples from the campground. Acetaldehyde was detected above the PRG by Method TO-15 (but not by Method TO-11A) at the school and at the campground. Butyraldehyde was detected in one sample from the campground but this aldehyde does not have an associated PRG. Analytical results are in Appendix A.

**Event #13: Aldehydes**
**Concentrations in ug/m3**

| Aldehyde | PRG | School | | | Cell Tower | | | Campground | | | Wetland | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Formaldehyde | **0.15** | ND | ND | **.52** | **1.5** | **.28** | **.23** | **1.2** | ND | **.32** | ND | ND | ND |
| Acetaldehyde TO-15 (TIC) | **.87** | **3.4** | | | ND | | | **3.6** | | | ND | | |
| Butyraldehyde | NA | .42 | ND | ND | ND | ND | ND | .27 | ND | ND | ND | ND | ND |

Event #14, August 08/09, 2007:
Analytical results for aldehydes are summarized below. Formaldehyde was detected in two samples from the school, three samples from the cell tower, two samples from the campground, and three samples from the wetland. Acetaldehyde was detected at a concentration above the PRG by Method TO-15 (but not by Method TO-11A) in the sample from the campground. Analytical results are in Appendix B.

**Event #14: Aldehydes**
**Concentrations in ug/m3**

| Aldehyde | PRG | School | | | Cell Tower | | | Campground | | | Wetland | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Formaldehyde | **0.15** | ND | **.58** | **.28** | **.58** | **.27** | **.32** | ND | **.38** | **.34** | **.83** | **1.0** | **.66** |
| Acetaldehyde TO-11A | 0.87 | ND | .24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Acetaldehyde TO-15 (TIC) | **0.87** | ND | | | ND | | | **6.7** | | | ND | | |

Event #15, August 14/15, 2007:
Analytical results for aldehydes are summarized below. Formaldehyde was detected in two samples from the school and one sample from the campground, but not in any other samples. Measurable levels of acetaldehyde were below the PRG. Analytical results are in Appendix C.

**Event #15: Aldehydes**
**Concentrations in ug/m3**

| Aldehyde | PRG | School | | | Cell Tower | | | Campground | | | Wetland | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Formaldehyde | **0.15** | **.24** | **.34** | ND | **.37** | ND | ND | ND | **1.2** | ND | ND | ND | ND |
| Acetaldehyde TO-11A | 0.87 | .24 | .23 | .58 | ND | ND | ND | ND | .46 | ND | ND | ND | ND |

Event #16, August 20/21, 2007:
Analytical results for aldehydes are summarized below. Formaldehyde was detected in two samples from the school, two samples from the campground, and one sample from the wetland. Acetaldehyde was detected in one sample from the school, two samples from the cell tower, two samples from the campground, and one sample from the wetland. Although acetaldehyde was not detected at the school by Method TO-15, it was quantified at this location by Method TO-11A at a concentration exceeding the PRG. Analytical results are in Appendix D.

**Event #16: Aldehydes**
**Concentrations in ug/m3**

| Aldehyde | PRG | School | | | Cell Tower | | | Campground | | | Wetland | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Formaldehyde | **0.15** | ND | **.31** | **.45** | **.33** | **.28** | ND | ND | ND | ND | ND | **.21** | ND |
| Acetaldehyde TO-11A | **0.87** | ND | ND | **1.0** | .28 | .24 | ND | .35 | .31 | ND | ND | ND | .27 |

### 3.4 Hydrogen Chloride and Hydrogen Fluoride

As with the aldehyde and ketone samples, three separate gel collection tubes were sequentially exposed to ambient air for a period of approximately 8 hours each. Consequently there are three separate sample results for each location for each monitoring event. The concentrations of HF and HCl in the air are quantified based on the mass of fluoride and chloride ion captured on the gel inside the tubes and the volume of air that was passed through the tube.

Analytical results for sampling events #13 through #16 are summarized below. All detected concentrations are very low, and were orders of magnitude below the PRG for HCl.

Event #13, August 02/03, 2007:
Analytical results are in Appendix A.

**Event #13: Hydrogen Fluoride and Hydrogen Chloride**
**Concentrations in ug/m3**

| Compound | PRG | School | Cell Tower | Campground | Wetland |
|---|---|---|---|---|---|

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| HF | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| HCl | 210 | ND | ND | ND | 1.4 | 0.86 | 1.0 | ND | ND | ND | ND | 1.0 | ND |

Event #14, August 08/09, 2007:
Analytical results are in Appendix B.

**Event #14: Hydrogen Fluoride and Hydrogen Chloride Concentrations in ug/m3**

| Compound | PRG | School | | | Cell Tower | | | Campground | | | Wetland | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| HF | NA | ND | ND | 4.5* | ND | ND | 4.5* | ND | ND | ND | ND | ND | ND |
| HCl | 210 | ND | 2.4 | 13* | ND | ND | 12* | ND | ND | 2.8* | ND | ND | ND |

*Denotes breakthrough from the front to the back of the sorbent tube.

Event #15, August 14/15, 2007:
Analytical results are in Appendix C.

**Event #15: Hydrogen Fluoride and Hydrogen Chloride Concentrations in ug/m3**

| Compound | PRG | School | | | Cell Tower | | | Campground | | | Wetland | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| HF | NA | ND | ND | ND | 1.4 | ND | ND | ND | ND | ND | ND | ND | ND |
| HCl | 210 | 2.4 | ND | 1.0 | 2.8* | 2.4 | 1.5* | 1.3 | ND | 0.85 | 0.95 | ND | 1.1 |

*Denotes breakthrough from the front to the back of the sorbent tube for chloride.

Event #16, August 20/21, 2007:
Analytical results are in Appendix D.

**Event #16: Hydrogen Fluoride and Hydrogen Chloride Concentrations in ug/m3**

| Compound | PRG | School | | | Cell Tower | | | Campground | | | Wetland | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| HF | NA | ND | 3.2 | ND | ND | ND | ND | ND | ND | ND | ND | 2.4 | ND |
| HCl | 210 | ND | 8.1* | 7.7* | ND | 2.6* | ND | ND | 1.7 | 1.3* | 1.2 | 20* | 4.5* |

*Denotes breakthrough from the front to the back of the sorbent tube for chloride.

## 4.0 SUMMARY

Relatively few compounds were detected at concentrations exceeding the respective conservative Region 9 PRGs for long-term continuous exposure. However, because of constantly changing environmental conditions related to the weather, exposures to any individual person are transient-such that the real risks are much, much lower than a

simple comparison to the PRGs might suggest. There are multiple potential sources for most of the compounds that were found in the monitoring samples. In addition to the landfill, common consumer products, building materials and automotive emissions could have contributed to presence of the chemicals that were measured in the air samples.

Relevant findings from the ambient air sampling conducted so far are summarized below.

- The analytical results from the 13th through 16th rounds of sampling are consistent with previous findings.

- The following compounds were detected above PRGs on one or more occasions: methylene chloride; acetonitrile; formaldehyde and acetaldehyde.

- All quantifiable analytical results for formaldehyde are above its PRG, and many of the results for acetaldehyde are above its PRG. There are two immediately apparent reasons for these findings. The first is that the PRGs for formaldehyde and acetaldehyde are risk-based numbers that were derived using extremely conservative assumptions. The second is the fact that the laboratory detection limits for both compounds are only slightly lower than the PRGs. Consequently, any measurable amount of formaldehyde (by Integrated Analytical Laboratories) is almost certain to translate into an air concentration that exceeds the PRG and even very low concentrations of acetaldehyde are likely to be above its PRG.

- Although some of the higher concentrations of compounds were found at the Bolivar Elementary school, this location was upwind of the landfill during all four monitoring events. This suggests that there are other sources close by the school which may be responsible for the analytical findings.

- All sample resultS for hydrogen fluoride and hydrogen chloride are orders of magnitude below any health based standards. Furthermore, there does not seem to be a discernable pattern to the results which would point to a particular source. It is recommended that sampling for these parameters be eliminated.

- To date, the findings of the air monitoring program do not suggest either an immediate or a long-term threat to public health.

# Countywide Recycling & Disposal Facility

**Ambient Air Monitoring**
**Monthly Report #4**

September 20, 2007

## EPA Method TO-15 SUMMARY TABLES

**Countywide Recycling & Disposal Facility**
**EPA Method TO-15 Modified: Volatile Organic Compounds**
**Table 1: Event #13 Aug 02/03, 2007**

| Analyte | | Monitoring Location | | | |
|---|---|---|---|---|---|
| | PRG | *School* | *Cell Tower* | *Campground* | *Wetland* |
| | All results in ug/m3 | | | | |
| **Method TO-15 Modified** | | | | | |
| Acetone | 3300 | 7.4 | 21 | ND | 13 |
| t-Butyl-alcohol | NA | ND | ND | ND | ND |
| Carbon disulfide | 730 | ND | ND | ND | ND |
| Chloromethane | 95 | ND | ND | ND | ND |
| Ethylbenzene | 1100 | ND | ND | ND | ND |
| Hexane | 210 | ND | ND | ND | ND |
| Methyl ethyl ketone | 5100 | ND | 2.1 | 1.8 | 2.7 |
| Methylene Chloride | **4.1** | 45 | 3.2 | ND | 4.5 |
| Toluene | 400 | ND | ND | ND | ND |
| m/p-Xylene | 110 | 7.8 | 3.8 | 6.1 | 3.3 |
| o-Xylene | 110 | 2.7 | ND | 2.2 | ND |
| | | | | | |
| **Tentatively Identified Compounds** | | | | | |
| Acetonitrile | **62** | 77 | 12 | 97 | 8.9 |
| Acetaldehyde | **0.87** | 3.4 | ND | 3.6 | ND |
| Butane | NA | 3.3 | 8.1 | 7.6 | ND |
| 2-Methyl butane | NA | 3.2 | ND | 24 | ND |
| 1,3-Butadiene,2-methyl | NA | 5 | 10 | 10 | 9.5 |
| Pentane, 2-methyl | NA | 3.5 | 6.7 | 6.3 | 3.9 |
| Formaldehyde, dimethylhydazone | NA | 10 | ND | ND | ND |
| 2-Propanol, 1-methoxyl | NA | 12 | ND | ND | ND |
| Propane | NA | ND | ND | 5.9 | ND |
| Pentane | NA | ND | 4.7 | 4.4 | ND |
| Cyclotrisiloxane, hexamethyl | NA | ND | 30 | 15 | 29 |
| Cycloheptane | NA | ND | ND | 25 | ND |
| 3-Carene | NA | ND | ND | ND | 11 |

ND = Not Detected
NA = Not Availabe
Shading indicates result exceeds PRG

**Countywide Recycling & Disposal Facility**

**EPA Method TO-15 Modified: Volatile Organic Compounds**

**Table 2: Event #14 August 08/09, 2007**

| Analyte | | Monitoring Location | | | |
|---|---|---|---|---|---|
| | PRG | *School* | *Cell Tower* | *Campground* | *Wetland* |
| | All results in ug/m3 | | | | |
| **Method TO-15 Modified** | | | | | |
| Acetone | 3300 | ND | ND | 15 | ND |
| | | | | | |
| **Tentatively Identifed Compounds** | | | | | |
| Acetaldehyde | **0.87** | ND | ND | 6.7 | ND |
| Hexadecane, 2,6,10,14-tetramethyl | NA | 404 | ND | ND | ND |

ND = Not Detected

NA = Not Available

Shading indicates result exceeds PRG

**Countywide Recycling & Disposal Facility**
**EPA Method TO-15 Modified: Volatile Organic Compounds**
**Table 3: Event #15 August 14/15, 2007**

| Analyte | | Monitoring Location | | | |
|---|---|---|---|---|---|
| | PRG | *School* | *Cell Tower* | *Campground* | *Wetland* |
| | All results in ug/m3 | | | | |
| **Method TO-15 Modified** | | | | | |
| Dichlorodifluoromethane | 210 | 3.8 | 4.1 | 4 | 3.3 |
| m/p-Xylene | 110 | ND | ND | ND | 4.8 |
| | | | | | |
| **Tentatively Identifed Compounds** | | | | | |
| Acetonitrile | **62** | 129 | 8.9 | 25 | 54 |
| Isobutane | NA | 9.7 | 9.5 | 9.5 | 9.5 |
| Butane | NA | 9.5 | 11 | 10 | 11 |
| 2-Methyl butane | NA | ND | 28 | 38 | ND |
| Pentane | NA | ND | 4.1 | 13 | ND |
| Pentane, 2-methyl | NA | ND | ND | 5.6 | 5.6 |
| 1,4-Pentadiene | NA | ND | 8.4 | ND | ND |
| Dodecane | NA | ND | ND | 202 | ND |
| | | | | | |
| ND = Not Detected | | | | | |
| NA = Not Available | | | | | |
| Shading indicates result exceeds PRG | | | | | |

**Countywide Recycling & Disposal Facility**
**EPA Method TO-15 Modified: Volatile Organic Compounds**
**Table 4: Event #16 August 20/21, 2007**

| Analyte | | Monitoring Location | | | |
|---|---|---|---|---|---|
| | PRG | *School* | *Cell Tower* | *Campground* | *Wetland* |
| | All results in ug/m3 | | | | |
| **Method TO-15 Modified** | | | | | |
| Dichlorodifluoromethane | 210 | 2.7 | 4 | 2.6 | 4.9 |
| m/p-Xylene | 110 | ND | 3.5 | 2.5 | 4.8 |
| | | | | | |
| **Tentatively Identifed Compounds** | | | | | |
| Acetonitrile | **62** | 82 | ND | ND | 72 |
| Ethanol | NA | 4.7 | ND | ND | ND |
| 3-Butenoic acid | NA | ND | ND | ND | ND |
| Butane | NA | 8.1 | ND | ND | 13 |
| 2-Methyl butane | NA | ND | ND | 11 | ND |
| Cyclotrisiloxane, hexamethyl | NA | 43 | ND | ND | 25 |
| Tetradecane | NA | 13 | ND | ND | ND |
| Cyclotetrasiloxane, octamethyl | NA | 62 | ND | ND | ND |
| Octadecane | NA | 73 | ND | ND | ND |
| Betanamide, 2,2,3,3,4,4,4-hepta | NA | 52 | ND | ND | ND |
| Pentadecane | NA | ND | ND | ND | 10 |
| 1,3-Butadiene, 2-methyl | NA | ND | ND | ND | 23 |
| | | | | | |
| ND = Not Detected | | | | | |
| NA = Not Available | | | | | |
| Shading indicates result exceeds PRG | | | | | |

## Countywide Recycling & Disposal Facility
## EPA Method TO-15 Modified: Volatile Organic Compounds
## Table 4: Event #16 August 20/21, 2007

| Analyte | | Monitoring Location | | | |
|---|---|---|---|---|---|
| | PRG | *School* | *Cell Tower* | *Campground* | *Wetland* |
| | All results in ug/m3 | | | | |
| **Method TO-15 Modified** | | | | | |
| Dichlorodifluoromethane | 210 | 2.7 | 4 | 2.6 | 4.9 |
| m/p-Xylene | 110 | ND | 3.5 | 2.5 | 4.8 |
| | | | | | |
| **Tentatively Identifed Compounds** | | | | | |
| Acetonitrile | **62** | 82 | ND | ND | 72 |
| Ethanol | NA | 4.7 | ND | ND | ND |
| 3-Butenoic acid | NA | ND | ND | ND | ND |
| Butane | NA | 8.1 | ND | ND | 13 |
| 2-Methyl butane | NA | ND | ND | 11 | ND |
| Cyclotrisiloxane, hexamethyl | NA | 43 | ND | ND | 25 |
| Tetradecane | NA | 13 | ND | ND | ND |
| Cyclotetrasiloxane, octamethyl | NA | 62 | ND | ND | ND |
| Octadecane | NA | 73 | ND | ND | ND |
| Betanamide, 2,2,3,3,4,4,4-hepta | NA | 52 | ND | ND | ND |
| Pentadecane | NA | ND | ND | ND | 10 |
| 1,3-Butadiene, 2-methyl | NA | ND | ND | ND | 23 |
| | | | | | |
| ND = Not Detected | | | | | |
| NA = Not Available | | | | | |
| Shading indicates result exceeds PRG | | | | | |

# Countywide Recycling & Disposal Facility
## Ambient Air Monitoring
## Monthly Report #4

September 20, 2007

# APPENDIX A

# Laboratory Analytical Results from August 02/03, 2007

# *Certificate of Analysis*

**CLIENT INFORMATION**

**Lawhon and Associates, Inc.**
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Project#/Project Site: 07-0082/Countywide
Client Sample ID Nos:
SU-S0802, SU-G0802, SU-W0802, SU-C0802

**LABORATORY INFORMATION**

Contact: Michael H. Leftin, Ph.D.
IAL Job No.: E07-08158
Date Received: 8/7/07

Sample Nos.:
E07-08158-01, E07-08158-02, E07-08158-03, E07-08158-04

Samples for this analysis were received in good condition with a chain of custody.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing.
Once analysis has been performed on canisters that meets regulatory criteria, samples are recycled for future use, unless other provisions have been made by the client.

Analysis conducted at Integrated Analytical Laboratory, Randolph NJ
ELAP lab number - 11402
NJDEP number - 14751
AIHA number - 100201

Michael H. Leftin, Ph.D.
Laboratory Director

## *Princeton Analytical*
## Summary of Results

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08158
Date Received: 8/7/07
Date Analyzed: 8/17/07
Data File: 081706
Summa ID: 2155

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-S0802 | | Reporting Limits | |
|---|---|---|---|---|---|
| | PAL ID: | E07-08158-01 | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 |
| Acetone | 67-64-1 | 3.1 | 7.4 | 0.5 | 1.2 |
| Benzene | 71-43-2 | ND | ND | 0.5 | 1.6 |
| Bromodichloromethane | 75-27-4 | ND | ND | 0.5 | 3.3 |
| Bromoethene | 593-60-2 | ND | ND | 0.5 | 2.2 |
| Bromoform | 75-25-2 | ND | ND | 0.5 | 5.2 |
| Bromomethane | 74-83-9 | ND | ND | 0.5 | 1.9 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 0.5 | 1.1 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 0.5 | 1.5 |
| Carbon disulfide | 75-15-0 | ND | ND | 0.5 | 1.6 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 0.5 | 3.1 |
| Chlorobenzene | 108-90-7 | ND | ND | 0.5 | 2.3 |
| Chloroethane | 75-00-3 | ND | ND | 0.5 | 1.3 |
| Chloroform | 67-66-3 | ND | ND | 0.5 | 2.4 |
| Chloromethane | 74-87-3 | ND | ND | 0.5 | 1.0 |
| 3-Chloropropene | 107-05-1 | ND | ND | 0.5 | 1.6 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 0.5 | 2.6 |
| Cyclohexane | 110-82-7 | ND | ND | 0.5 | 1.7 |
| Dibromochloromethane | 124-48-1 | ND | ND | 0.5 | 4.3 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 0.5 | 3.8 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 0.5 | 3.0 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 0.5 | 3.0 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 0.5 | 3.0 |
| Dichlorodifluoromethane | 75-71-8 | ND | ND | 0.5 | 2.5 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 0.5 | 2.0 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 0.5 | 2.0 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 0.5 | 2.0 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 0.5 | 2.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 0.5 | 2.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 0.5 | 2.3 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 0.5 | 3.5 |
| Ethylbenzene | 100-41-4 | ND | ND | 0.5 | 2.2 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 0.5 | 2.5 |
| Heptane | 142-82-5 | ND | ND | 0.5 | 2.0 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 0.5 | 5.3 |
| Hexane | 110-54-3 | ND | ND | 0.5 | 1.8 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 0.5 | 1.2 |
| Methyl ethyl ketone | 78-93-3 | ND | ND | 0.5 | 1.5 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 0.5 | 2.0 |
| Methylene chloride | 75-09-2 | 13 | 45 | 0.5 | 1.7 |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 0.5 | 1.8 |
| Styrene | 100-42-5 | ND | ND | 0.5 | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 0.5 | 3.4 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 0.5 | 3.4 |
| Toluene | 108-88-3 | ND | ND | 0.5 | 1.9 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 0.5 | 3.8 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 0.5 | 3.7 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 0.5 | 2.7 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 0.5 | 2.7 |
| Trichloroethylene | 79-01-6 | ND | ND | 0.5 | 2.7 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 0.5 | 2.8 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 0.5 | 2.5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 0.5 | 2.5 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 0.5 | 2.3 |
| Vinyl chloride | 75-01-4 | ND | ND | 0.5 | 1.3 |
| m or p-Xylene | 1330-20-7 | 1.8 | 7.8 | 0.5 | 2.2 |
| o-Xylene | 95-47-6 | 0.61 | 2.7 | 0.5 | 2.2 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*

**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08158
Date Received: 8/7/07
Date Analyzed: 8/20/07
Data File: 082005
Summa ID: 2068

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-G0802 | | Reporting Limits | |
|---|---|---|---|---|---|
| | PAL ID: | E07-08158-02 | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 |
| Acetone | 67-64-1 | ND | ND | 0.5 | 1.2 |
| Benzene | 71-43-2 | ND | ND | 0.5 | 1.6 |
| Bromodichloromethane | 75-27-4 | ND | ND | 0.5 | 3.3 |
| Bromoethene | 593-60-2 | ND | ND | 0.5 | 2.2 |
| Bromoform | 75-25-2 | ND | ND | 0.5 | 5.2 |
| Bromomethane | 74-83-9 | ND | ND | 0.5 | 1.9 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 0.5 | 1.1 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 0.5 | 1.5 |
| Carbon disulfide | 75-15-0 | ND | ND | 0.5 | 1.6 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 0.5 | 3.1 |
| Chlorobenzene | 108-90-7 | ND | ND | 0.5 | 2.3 |
| Chloroethane | 75-00-3 | ND | ND | 0.5 | 1.3 |
| Chloroform | 67-66-3 | ND | ND | 0.5 | 2.4 |
| Chloromethane | 74-87-3 | ND | ND | 0.5 | 1.0 |
| 3-Chloropropene | 107-05-1 | ND | ND | 0.5 | 1.6 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 0.5 | 2.6 |
| Cyclohexane | 110-82-7 | ND | ND | 0.5 | 1.7 |
| Dibromochloromethane | 124-48-1 | ND | ND | 0.5 | 4.3 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 0.5 | 3.8 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 0.5 | 3.0 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 0.5 | 3.0 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 0.5 | 3.0 |
| Dichlorodifluoromethane | 75-71-8 | ND | ND | 0.5 | 2.5 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 0.5 | 2.0 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 0.5 | 2.0 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 0.5 | 2.0 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 0.5 | 2.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 0.5 | 2.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 0.5 | 2.3 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 0.5 | 3.5 |
| Ethylbenzene | 100-41-4 | ND | ND | 0.5 | 2.2 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 0.5 | 2.5 |
| Heptane | 142-82-5 | ND | ND | 0.5 | 2.0 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 0.5 | 5.3 |
| Hexane | 110-54-3 | ND | ND | 0.5 | 1.8 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 0.5 | 1.2 |
| Methyl ethyl ketone | 78-93-3 | 0.62 | 1.8 | 0.5 | 1.5 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 0.5 | 2.0 |
| Methylene chloride | 75-09-2 | ND | ND | 0.5 | 1.7 |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 0.5 | 1.8 |
| Styrene | 100-42-5 | ND | ND | 0.5 | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 0.5 | 3.4 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 0.5 | 3.4 |
| Toluene | 108-88-3 | ND | ND | 0.5 | 1.9 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 0.5 | 3.8 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 0.5 | 3.7 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 0.5 | 2.7 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 0.5 | 2.7 |
| Trichloroethylene | 79-01-6 | ND | ND | 0.5 | 2.7 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 0.5 | 2.8 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 0.5 | 2.5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 0.5 | 2.5 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 0.5 | 2.3 |
| Vinyl chloride | 75-01-4 | ND | ND | 0.5 | 1.3 |
| m or p-Xylene | 1330-20-7 | 1.4 | 6.1 | 0.5 | 2.2 |
| o-Xylene | 95-47-6 | 0.50 | 2.2 | 0.5 | 2.2 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

## *Princeton Analytical*
## Summary of Results

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08158
Date Received: 8/7/07
Date Analyzed: 8/16/07
Data File: 081510
Summa ID: 3288

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-W0802 | | Reporting Limits | |
|---|---|---|---|---|---|
| | PAL ID: | E07-08158-03 | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 |
| Acetone | 67-64-1 | 5.6 | 13 | 0.5 | 1.2 |
| Benzene | 71-43-2 | ND | ND | 0.5 | 1.6 |
| Bromodichloromethane | 75-27-4 | ND | ND | 0.5 | 3.3 |
| Bromoethene | 593-60-2 | ND | ND | 0.5 | 2.2 |
| Bromoform | 75-25-2 | ND | ND | 0.5 | 5.2 |
| Bromomethane | 74-83-9 | ND | ND | 0.5 | 1.9 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 0.5 | 1.1 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 0.5 | 1.5 |
| Carbon disulfide | 75-15-0 | ND | ND | 0.5 | 1.6 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 0.5 | 3.1 |
| Chlorobenzene | 108-90-7 | ND | ND | 0.5 | 2.3 |
| Chloroethane | 75-00-3 | ND | ND | 0.5 | 1.3 |
| Chloroform | 67-66-3 | ND | ND | 0.5 | 2.4 |
| Chloromethane | 74-87-3 | ND | ND | 0.5 | 1.0 |
| 3-Chloropropene | 107-05-1 | ND | ND | 0.5 | 1.6 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 0.5 | 2.6 |
| Cyclohexane | 110-82-7 | ND | ND | 0.5 | 1.7 |
| Dibromochloromethane | 124-48-1 | ND | ND | 0.5 | 4.3 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 0.5 | 3.8 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 0.5 | 3.0 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 0.5 | 3.0 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 0.5 | 3.0 |
| Dichlorodifluoromethane | 75-71-8 | ND | ND | 0.5 | 2.5 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 0.5 | 2.0 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 0.5 | 2.0 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 0.5 | 2.0 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 0.5 | 2.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 0.5 | 2.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 0.5 | 2.3 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 0.5 | 3.5 |
| Ethylbenzene | 100-41-4 | ND | ND | 0.5 | 2.2 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 0.5 | 2.5 |
| Heptane | 142-82-5 | ND | ND | 0.5 | 2.0 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 0.5 | 5.3 |
| Hexane | 110-54-3 | ND | ND | 0.5 | 1.8 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 0.5 | 1.2 |
| Methyl ethyl ketone | 78-93-3 | 0.90 | 2.7 | 0.5 | 1.5 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 0.5 | 2.0 |
| Methylene chloride | 75-09-2 | 1.3 | 4.5 | 0.5 | 1.7 |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 0.5 | 1.8 |
| Styrene | 100-42-5 | ND | ND | 0.5 | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 0.5 | 3.4 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 0.5 | 3.4 |
| Toluene | 108-88-3 | ND | ND | 0.5 | 1.9 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 0.5 | 3.8 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 0.5 | 3.7 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 0.5 | 2.7 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 0.5 | 2.7 |
| Trichloroethylene | 79-01-6 | ND | ND | 0.5 | 2.7 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 0.5 | 2.8 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 0.5 | 2.5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 0.5 | 2.5 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 0.5 | 2.3 |
| Vinyl chloride | 75-01-4 | ND | ND | 0.5 | 1.3 |
| m or p-Xylene | 1330-20-7 | 0.77 | 3.3 | 0.5 | 2.2 |
| o-Xylene | 95-47-6 | ND | ND | 0.5 | 2.2 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*
**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08158
Date Received: 8/7/07
Date Analyzed: 8/21/07
Data File: 082101
Summa ID: 2095

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-C0802 | | Reporting Limits | |
|---|---|---|---|---|---|
| | PAL ID: | E07-08158-04 | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 |
| Acetone | 67-64-1 | 8.7 | 21 | 0.5 | 1.2 |
| Benzene | 71-43-2 | ND | ND | 0.5 | 1.6 |
| Bromodichloromethane | 75-27-4 | ND | ND | 0.5 | 3.3 |
| Bromoethene | 593-60-2 | ND | ND | 0.5 | 2.2 |
| Bromoform | 75-25-2 | ND | ND | 0.5 | 5.2 |
| Bromomethane | 74-83-9 | ND | ND | 0.5 | 1.9 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 0.5 | 1.1 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 0.5 | 1.5 |
| Carbon disulfide | 75-15-0 | ND | ND | 0.5 | 1.6 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 0.5 | 3.1 |
| Chlorobenzene | 108-90-7 | ND | ND | 0.5 | 2.3 |
| Chloroethane | 75-00-3 | ND | ND | 0.5 | 1.3 |
| Chloroform | 67-66-3 | ND | ND | 0.5 | 2.4 |
| Chloromethane | 74-87-3 | ND | ND | 0.5 | 1.0 |
| 3-Chloropropene | 107-05-1 | ND | ND | 0.5 | 1.6 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 0.5 | 2.6 |
| Cyclohexane | 110-82-7 | ND | ND | 0.5 | 1.7 |
| Dibromochloromethane | 124-48-1 | ND | ND | 0.5 | 4.3 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 0.5 | 3.8 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 0.5 | 3.0 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 0.5 | 3.0 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 0.5 | 3.0 |
| Dichlorodifluoromethane | 75-71-8 | ND | ND | 0.5 | 2.5 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 0.5 | 2.0 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 0.5 | 2.0 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 0.5 | 2.0 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 0.5 | 2.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 0.5 | 2.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 0.5 | 2.3 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 0.5 | 3.5 |
| Ethylbenzene | 100-41-4 | ND | ND | 0.5 | 2.2 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 0.5 | 2.5 |
| Heptane | 142-82-5 | ND | ND | 0.5 | 2.0 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 0.5 | 5.3 |
| Hexane | 110-54-3 | ND | ND | 0.5 | 1.8 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 0.5 | 1.2 |
| Methyl ethyl ketone | 78-93-3 | 0.72 | 2.1 | 0.5 | 1.5 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 0.5 | 2.0 |
| Methylene chloride | 75-09-2 | 0.91 | 3.2 | 0.5 | 1.7 |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 0.5 | 1.8 |
| Styrene | 100-42-5 | ND | ND | 0.5 | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 0.5 | 3.4 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 0.5 | 3.4 |
| Toluene | 108-88-3 | ND | ND | 0.5 | 1.9 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 0.5 | 3.8 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 0.5 | 3.7 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 0.5 | 2.7 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 0.5 | 2.7 |
| Trichloroethylene | 79-01-6 | ND | ND | 0.5 | 2.7 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 0.5 | 2.8 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 0.5 | 2.5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 0.5 | 2.5 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 0.5 | 2.3 |
| Vinyl chloride | 75-01-4 | ND | ND | 0.5 | 1.3 |
| m or p-Xylene | 1330-20-7 | 0.88 | 3.8 | 0.5 | 2.2 |
| o-Xylene | 95-47-6 | ND | ND | 0.5 | 2.2 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

# Summary of Results

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro
Project: 07-0082, Countrywide

Report Date: 8/22/2007
Job Number: E07-08158
Date Received: 8/7/2007
Date Analyzed: 8/15-8/21/07

Analysis: Tentatively Identified Compounds by Library Search

Sample Name: SU-S0802
IAL ID: E07-08158-01

Data File: 081706
Canister ID 2155

| Chemical Name | CAS Number | Qual % | Estimated in ppb | Estimated in µg/m3 |
|---|---|---|---|---|
| Acetaldehyde | 75-07-0 | 56 | 1.9 | 3.4 |
| Butane | 106-97-8 | 9 | 1.4 | 3.3 |
| Acetonitrile | 75-05-8 | 42 | 46 | 77 |
| Butane, 2-methyl- | 78-78-4 | 33 | 1.1 | 3.2 |
| 1,3-Butadiene, 2-methyl- | 78-79-5 | 91 | 1.8 | 5.0 |
| Pentane, 2-methyl- | 107-83-5 | 47 | 1.0 | 3.5 |
| Formaldehyde, dimethylhydrazone | 2035-89-4 | 59 | 1.2 | 3.5 |
| 2-Propanol, 1-methoxy- | 107-98-2 | 78 | 2.8 | 10 |
| Benzene, 1,2,4,5-tetramethyl- | 95-93-2 | 53 | 2.1 | 12 |

Sample Name: SU-G0802
IAL ID: E07-08158-02

Data File: 082005
Canister ID 2068

| Chemical Name | CAS Number | Qual % | Estimated in ppb | Estimated in µg/m3 |
|---|---|---|---|---|
| Propane | 74-98-6 | 78 | 3.3 | 5.9 |
| Acetaldehyde | 75-07-0 | 72 | 2.0 | 3.6 |
| Butane | 106-97-8 | 64 | 3.2 | 7.6 |
| Acetonitrile | 75-05-8 | 9 | 58 | 97 |
| Butane, 2-methyl- | 78-78-4 | 43 | 8.3 | 24 |
| Pentane | 109-66-0 | 86 | 1.5 | 4.4 |
| 1,3-Butadiene, 2-methyl- | 78-79-5 | 91 | 3.7 | 10 |
| Pentane, 2-methyl- | 107-83-5 | 80 | 1.8 | 6.3 |
| Cyclotrisiloxane, hexamethyl- | 541-05-9 | 86 | 1.6 | 15 |
| Cycloheptane | 291-64-5 | 60 | 6.2 | 25 |

# Summary of Results

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro
Project: 07-0082, Countrywide

Report Date: 8/22/2007
Job Number: E07-08158
Date Received: 8/7/2007
Date Analyzed: 8/15-8/21/07

Analysis: Tentatively Identified Compounds by Library Search

Sample Name: SU-W0802
IAL ID: E07-08158-03

Data File: 81510
Canister ID 3288

| Chemical Name | CAS Number | Qual % | Estimated in ppb | Estimated in µg/m3 |
|---|---|---|---|---|
| Acetonitrile | 75-05-8 | 42 | 5.3 | 8.9 |
| 1,3-Butadiene, 2-methyl- | 78-79-5 | 91 | 3.4 | 9.5 |
| Pentane, 2-methyl- | 107-83-5 | 45 | 1.1 | 3.9 |
| Cyclotrisiloxane, hexamethyl- | 541-05-9 | 64 | 3.2 | 29 |
| 3-Carene | 13466-78-9 | 87 | 2.0 | 11 |

Sample Name: SU-C0802
IAL ID: E07-08158-04

Data File: 082101
Canister ID 2095

| Chemical Name | CAS Number | Qual % | Estimated in ppb | Estimated in µg/m3 |
|---|---|---|---|---|
| Butane | 106-97-8 | 64 | 3.4 | 8.1 |
| Acetonitrile | 75-05-8 | 40 | 7.2 | 12 |
| Pentane | 109-66-0 | 72 | 1.6 | 4.7 |
| 1,3-Butadiene, 2-methyl- | 78-79-5 | 94 | 3.7 | 10 |
| Pentane, 2-methyl- | 107-83-5 | 59 | 1.9 | 6.7 |
| Cyclotrisiloxane, hexamethyl- | 541-05-9 | 95 | 3.3 | 30 |

**Summary of Results**

Lawhon & Associates, Inc.
975 Eastwind Drive Suite 190
Westerville, OH 43081
Att: Shawn Ansbro
Jobsite: Countywide
Project: #07-0082

Report Date: 8/16/07
Job Number: E07-08158
Date Received: 8/07/07
Date Analyzed: 8/14/07

Analysis: Aldehydes and Ketones, EPA Method TO-11a

| Sample Name: | S0802-01H | | S0802-02H | | S0802-03H | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08158-17 | | E07-08158-18 | | E07-08158-19 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.24 | 0.52 | 0.1 |
| Acetaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acetone | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acrolein | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | 0.19 | 0.42 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.3 | < 0.6 | < 1.3 | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | G0802-01H | | G0802-02H | | G0802-03H | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08158-20 | | E07-08158-21 | | E07-08158-22 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.24 | 1.2 | < 0.1 | < 0.3 | 0.15 | 0.32 | 0.1 |
| Acetaldehyde | < 0.1 | < 0.5 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Acetone | < 0.1 | < 0.5 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Acrolein | < 0.1 | < 0.5 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.5 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.5 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.5 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Benzaldehyde | < 0.1 | < 0.5 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 3.1 | < 0.6 | < 1.8 | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 1.0 | < 0.2 | < 0.6 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 1.0 | < 0.2 | < 0.6 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.5 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.5 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |



Lawhon & Associates, Inc.
Jobsite: Countywide
Project: #07-0082

Job Number: E07-08158

Analysis: Aldehydes and Ketones, EPA Method TO-11a

| Sample Name: | W0802-01H | | W0802-02H | | W0802-03H | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08158-23 | | E07-08158-24 | | E07-08158-25 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acetaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acetone | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acrolein | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.4 | < 0.6 | < 1.3 | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.5 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | C0802-01H | | C0802-02H | | C0802-03H | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08158-26 | | E07-08158-27 | | E07-08158-28 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.58 | 1.55 | 0.13 | 0.28 | 0.10 | 0.23 | 0.1 |
| Acetaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acetone | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acrolein | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.6 | < 0.6 | < 1.3 | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.5 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

*Denotes breakthrough from front to back of sorbent tube for Formaldehyde.

Notes: Calculations of concentrations in air are based upon air sampling data reported by client.
Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: D. Mitchell

## Summary of Results

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Report Date: 08/21/07
Job Number: E07-08158
Date Received: 08/07/07
Date Analyzed: 08/16/07

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

| | | Hydrogen Fluoride | | Hydrogen Chloride | |
|---|---|---|---|---|---|
| Sample ID | IAL ID | ug | ug/m3 | ug | ug/m3 |
| S0802-01H | E07-08158-05 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| S0802-02H | E07-08158-06 | < 0.6 | < 1.4 | < 0.4 | < 0.8 |
| S0802-03H | E07-08158-07 | < 0.6 | < 1.4 | < 0.4 | < 0.8 |
| G0802-01H | E07-08158-08 | < 0.6 | < 3.2 | < 0.4 | < 2.0 |
| G0802-02H | E07-08158-09 | < 0.6 | < 1.9 | < 0.4 | < 1.2 |
| G0802-03H | E07-08158-10 | < 0.6 | < 1.4 | < 0.4 | < 0.8 |
| W0802-01H | E07-08158-11 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| W0802-02H | E07-08158-12 | < 0.6 | < 1.4 | 0.46 | 1.0 |
| W0802-03H | E07-08158-13 | < 0.6 | < 1.4 | < 0.4 | < 0.8 |
| C0802-01H | E07-08158-14 | < 0.6 | < 1.7 | 0.51 | 1.4 |
| C0802-02H | E07-08158-15 | < 0.6 | < 1.4 | 0.40 | 0.86 |
| C0802-03H | E07-08158-16 | < 0.6 | < 1.4 | 0.48 | 1.0 |
| Reporting Limit | | 0.6 | | 0.4 | |

Note: Calculations of concentrations in air are based upon air sampling data reported by client. Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: D. Mitchell

# Countywide Recycling & Disposal Facility
## Ambient Air Monitoring
## Monthly Report #4

September 20, 2007

# APPENDIX B

# Laboratory Analytical Results from August 08/09, 2007

# *Certificate of Analysis*

**CLIENT INFORMATION**

**Lawhon and Associates, Inc.**
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Project#/Project Site: 07-0082/Countywide
Client Sample ID Nos:
SU-S0808, SU-G0808, SU-W0808, SU-C0808

**LABORATORY INFORMATION**

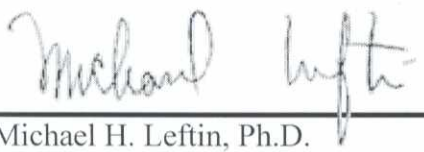
Contact: Michael H. Leftin, Ph.D.
IAL Job No.: E07-08351
Date Received: 8/10/07

Sample Nos.:
E07-08351-01, E07-08351-02, E07-08351-03, E07-08351-04

Samples for this analysis were received in good condition with a chain of custody.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing.
Once analysis has been performed on canisters that meets regulatory criteria, samples are recycled for future use, unless other provisions have been made by the client.

Analysis conducted at Integrated Analytical Laboratory, Randolph NJ
ELAP lab number - 11402
NJDEP number - 14751
AIHA number - 100201



Michael H. Leftin, Ph.D.
Laboratory Director

*Princeton Analytical*
**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08351
Date Received: 8/10/07
Date Analyzed: 9/1/07
Data File: 083117
Summa ID: 2896B

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-S0808 | | Reporting Limits | | |
|---|---|---|---|---|---|---|
| | PAL ID: | E07-08351-01 | | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 | |
| Acetone | 67-64-1 | ND | ND | 5.0 | 11.9 | 58.08 |
| Benzene | 71-43-2 | ND | ND | 5.0 | 16.0 | 78.11 |
| Bromodichloromethane | 75-27-4 | ND | ND | 5.0 | 33.5 | 163.80 |
| Bromoethene | 593-60-2 | ND | ND | 5.0 | 21.9 | 107.00 |
| Bromoform | 75-25-2 | ND | ND | 5.0 | 51.7 | 252.80 |
| Bromomethane | 74-83-9 | ND | ND | 5.0 | 19.4 | 94.94 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 5.0 | 11.1 | 54.09 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 5.0 | 15.2 | 74.14 |
| Carbon disulfide | 75-15-0 | ND | ND | 5.0 | 15.6 | 76.14 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 5.0 | 31.5 | 153.80 |
| Chlorobenzene | 108-90-7 | ND | ND | 5.0 | 23.0 | 112.60 |
| Chloroethane | 75-00-3 | ND | ND | 5.0 | 13.2 | 64.52 |
| Chloroform | 67-66-3 | ND | ND | 5.0 | 24.4 | 119.40 |
| Chloromethane | 74-87-3 | ND | ND | 5.0 | 10.3 | 50.49 |
| 3-Chloropropene | 107-05-1 | ND | ND | 5.0 | 15.6 | 76.49 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 5.0 | 25.9 | 126.60 |
| Cyclohexane | 110-82-7 | ND | ND | 5.0 | 17.2 | 84.16 |
| Dibromochloromethane | 124-48-1 | ND | ND | 5.0 | 42.6 | 208.30 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 5.0 | 38.4 | 187.90 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 5.0 | 30.1 | 147.00 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 5.0 | 30.1 | 147.00 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 5.0 | 30.1 | 147.00 |
| Dichlorodifluoromethane | 75-71-8 | ND | ND | 5.0 | 24.7 | 120.90 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 5.0 | 20.2 | 98.96 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 5.0 | 20.2 | 98.96 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 5.0 | 19.8 | 96.94 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 5.0 | 19.8 | 96.94 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 5.0 | 19.8 | 96.94 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 5.0 | 23.1 | 113.00 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 5.0 | 22.7 | 111.00 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 5.0 | 22.7 | 111.00 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 5.0 | 34.9 | 170.90 |
| Ethylbenzene | 100-41-4 | ND | ND | 5.0 | 21.7 | 106.20 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 5.0 | 24.6 | 120.20 |
| Heptane | 142-82-5 | ND | ND | 5.0 | 20.5 | 100.20 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 5.0 | 53.3 | 260.80 |
| Hexane | 110-54-3 | ND | ND | 5.0 | 17.6 | 86.17 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 5.0 | 12.3 | 60.10 |
| Methyl ethyl ketone | 78-93-3 | ND | ND | 5.0 | 14.7 | 72.11 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 5.0 | 20.5 | 100.20 |
| Methylene chloride | 75-09-2 | ND | ND | 5.0 | 17.4 | 84.94 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*
**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08351
Date Received: 8/10/07
Date Analyzed: 9/1/07
Data File: 083117
Summa ID: 2896B

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-S0808 | | Reporting Limits | | |
|---|---|---|---|---|---|---|
| | PAL ID: | E07-08351-01 | | | | |
| **Compound** | **CAS #** | **ppbv** | **ug/m3** | **ppbv** | **ug/m3** | |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 5.0 | 18.0 | 88.15 |
| Styrene | 100-42-5 | ND | ND | 5.0 | 21.3 | 104.10 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 5.0 | 34.3 | 167.90 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 5.0 | 33.9 | 165.80 |
| Toluene | 108-88-3 | ND | ND | 5.0 | 18.8 | 92.14 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 5.0 | 38.3 | 187.40 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 5.0 | 37.1 | 181.50 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 5.0 | 27.3 | 133.40 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 5.0 | 27.3 | 133.40 |
| Trichloroethylene | 79-01-6 | ND | ND | 5.0 | 26.9 | 131.40 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 5.0 | 28.1 | 137.40 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 5.0 | 24.6 | 120.20 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 5.0 | 24.6 | 120.20 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 5.0 | 23.4 | 114.20 |
| Vinyl chloride | 75-01-4 | ND | ND | 5.0 | 12.8 | 62.50 |
| m or p-Xylene | 1330-20-7 | ND | ND | 5.0 | 21.7 | 106.20 |
| o-Xylene | 95-47-6 | ND | ND | 5.0 | 21.7 | 106.20 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*

**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08351
Date Received: 8/10/07
Date Analyzed: 8/31/07
Data File: 083017
Summa ID: 2768

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-G0808 | | Reporting Limits | | |
|---|---|---|---|---|---|---|
| | PAL ID: | E07-08351-02 | | | | |
| **Compound** | **CAS #** | **ppbv** | **ug/m3** | **ppbv** | **ug/m3** | |
| Acetone | 67-64-1 | 6.5 | 15 | 5.0 | 11.9 | 58.08 |
| Benzene | 71-43-2 | ND | ND | 5.0 | 16.0 | 78.11 |
| Bromodichloromethane | 75-27-4 | ND | ND | 5.0 | 33.5 | 163.80 |
| Bromoethene | 593-60-2 | ND | ND | 5.0 | 21.9 | 107.00 |
| Bromoform | 75-25-2 | ND | ND | 5.0 | 51.7 | 252.80 |
| Bromomethane | 74-83-9 | ND | ND | 5.0 | 19.4 | 94.94 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 5.0 | 11.1 | 54.09 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 5.0 | 15.2 | 74.14 |
| Carbon disulfide | 75-15-0 | ND | ND | 5.0 | 15.6 | 76.14 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 5.0 | 31.5 | 153.80 |
| Chlorobenzene | 108-90-7 | ND | ND | 5.0 | 23.0 | 112.60 |
| Chloroethane | 75-00-3 | ND | ND | 5.0 | 13.2 | 64.52 |
| Chloroform | 67-66-3 | ND | ND | 5.0 | 24.4 | 119.40 |
| Chloromethane | 74-87-3 | ND | ND | 5.0 | 10.3 | 50.49 |
| 3-Chloropropene | 107-05-1 | ND | ND | 5.0 | 15.6 | 76.49 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 5.0 | 25.9 | 126.60 |
| Cyclohexane | 110-82-7 | ND | ND | 5.0 | 17.2 | 84.16 |
| Dibromochloromethane | 124-48-1 | ND | ND | 5.0 | 42.6 | 208.30 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 5.0 | 38.4 | 187.90 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 5.0 | 30.1 | 147.00 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 5.0 | 30.1 | 147.00 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 5.0 | 30.1 | 147.00 |
| Dichlorodifluoromethane | 75-71-8 | ND | ND | 5.0 | 24.7 | 120.90 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 5.0 | 20.2 | 98.96 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 5.0 | 20.2 | 98.96 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 5.0 | 19.8 | 96.94 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 5.0 | 19.8 | 96.94 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 5.0 | 19.8 | 96.94 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 5.0 | 23.1 | 113.00 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 5.0 | 22.7 | 111.00 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 5.0 | 22.7 | 111.00 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 5.0 | 34.9 | 170.90 |
| Ethylbenzene | 100-41-4 | ND | ND | 5.0 | 21.7 | 106.20 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 5.0 | 24.6 | 120.20 |
| Heptane | 142-82-5 | ND | ND | 5.0 | 20.5 | 100.20 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 5.0 | 53.3 | 260.80 |
| Hexane | 110-54-3 | ND | ND | 5.0 | 17.6 | 86.17 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 5.0 | 12.3 | 60.10 |
| Methyl ethyl ketone | 78-93-3 | ND | ND | 5.0 | 14.7 | 72.11 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 5.0 | 20.5 | 100.20 |
| Methylene chloride | 75-09-2 | ND | ND | 5.0 | 17.4 | 84.94 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*
**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08351
Date Received: 8/10/07
Date Analyzed: 8/31/07
Data File: 083017
Summa ID: 2768

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-G0808 | | Reporting Limits | | |
|---|---|---|---|---|---|---|
| | PAL ID: | E07-08351-02 | | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 | |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 5.0 | 18.0 | 88.15 |
| Styrene | 100-42-5 | ND | ND | 5.0 | 21.3 | 104.10 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 5.0 | 34.3 | 167.90 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 5.0 | 33.9 | 165.80 |
| Toluene | 108-88-3 | ND | ND | 5.0 | 18.8 | 92.14 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 5.0 | 38.3 | 187.40 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 5.0 | 37.1 | 181.50 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 5.0 | 27.3 | 133.40 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 5.0 | 27.3 | 133.40 |
| Trichloroethylene | 79-01-6 | ND | ND | 5.0 | 26.9 | 131.40 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 5.0 | 28.1 | 137.40 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 5.0 | 24.6 | 120.20 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 5.0 | 24.6 | 120.20 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 5.0 | 23.4 | 114.20 |
| Vinyl chloride | 75-01-4 | ND | ND | 5.0 | 12.8 | 62.50 |
| m or p-Xylene | 1330-20-7 | ND | ND | 5.0 | 21.7 | 106.20 |
| o-Xylene | 95-47-6 | ND | ND | 5.0 | 21.7 | 106.20 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*

**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08351
Date Received: 8/10/07
Date Analyzed: 8/31/07
Data File: 083018
Summa ID: 3289

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-W0808 | | Reporting Limits | | |
|---|---|---|---|---|---|---|
| | PAL ID: | E07-08351-03 | | | | |
| **Compound** | **CAS #** | **ppbv** | **ug/m3** | **ppbv** | **ug/m3** | |
| Acetone | 67-64-1 | ND | ND | 5.0 | 11.9 | 58.08 |
| Benzene | 71-43-2 | ND | ND | 5.0 | 16.0 | 78.11 |
| Bromodichloromethane | 75-27-4 | ND | ND | 5.0 | 33.5 | 163.80 |
| Bromoethene | 593-60-2 | ND | ND | 5.0 | 21.9 | 107.00 |
| Bromoform | 75-25-2 | ND | ND | 5.0 | 51.7 | 252.80 |
| Bromomethane | 74-83-9 | ND | ND | 5.0 | 19.4 | 94.94 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 5.0 | 11.1 | 54.09 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 5.0 | 15.2 | 74.14 |
| Carbon disulfide | 75-15-0 | ND | ND | 5.0 | 15.6 | 76.14 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 5.0 | 31.5 | 153.80 |
| Chlorobenzene | 108-90-7 | ND | ND | 5.0 | 23.0 | 112.60 |
| Chloroethane | 75-00-3 | ND | ND | 5.0 | 13.2 | 64.52 |
| Chloroform | 67-66-3 | ND | ND | 5.0 | 24.4 | 119.40 |
| Chloromethane | 74-87-3 | ND | ND | 5.0 | 10.3 | 50.49 |
| 3-Chloropropene | 107-05-1 | ND | ND | 5.0 | 15.6 | 76.49 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 5.0 | 25.9 | 126.60 |
| Cyclohexane | 110-82-7 | ND | ND | 5.0 | 17.2 | 84.16 |
| Dibromochloromethane | 124-48-1 | ND | ND | 5.0 | 42.6 | 208.30 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 5.0 | 38.4 | 187.90 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 5.0 | 30.1 | 147.00 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 5.0 | 30.1 | 147.00 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 5.0 | 30.1 | 147.00 |
| Dichlorodifluoromethane | 75-71-8 | ND | ND | 5.0 | 24.7 | 120.90 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 5.0 | 20.2 | 98.96 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 5.0 | 20.2 | 98.96 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 5.0 | 19.8 | 96.94 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 5.0 | 19.8 | 96.94 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 5.0 | 19.8 | 96.94 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 5.0 | 23.1 | 113.00 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 5.0 | 22.7 | 111.00 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 5.0 | 22.7 | 111.00 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 5.0 | 34.9 | 170.90 |
| Ethylbenzene | 100-41-4 | ND | ND | 5.0 | 21.7 | 106.20 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 5.0 | 24.6 | 120.20 |
| Heptane | 142-82-5 | ND | ND | 5.0 | 20.5 | 100.20 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 5.0 | 53.3 | 260.80 |
| Hexane | 110-54-3 | ND | ND | 5.0 | 17.6 | 86.17 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 5.0 | 12.3 | 60.10 |
| Methyl ethyl ketone | 78-93-3 | ND | ND | 5.0 | 14.7 | 72.11 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 5.0 | 20.5 | 100.20 |
| Methylene chloride | 75-09-2 | ND | ND | 5.0 | 17.4 | 84.94 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*

**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08351
Date Received: 8/10/07
Date Analyzed: 8/31/07
Data File: 083018
Summa ID: 3289

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-W0808 | | Reporting Limits | | |
|---|---|---|---|---|---|---|
| | PAL ID: | E07-08351-03 | | | | |
| **Compound** | **CAS #** | **ppbv** | **ug/m3** | **ppbv** | **ug/m3** | |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 5.0 | 18.0 | 88.15 |
| Styrene | 100-42-5 | ND | ND | 5.0 | 21.3 | 104.10 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 5.0 | 34.3 | 167.90 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 5.0 | 33.9 | 165.80 |
| Toluene | 108-88-3 | ND | ND | 5.0 | 18.8 | 92.14 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 5.0 | 38.3 | 187.40 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 5.0 | 37.1 | 181.50 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 5.0 | 27.3 | 133.40 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 5.0 | 27.3 | 133.40 |
| Trichloroethylene | 79-01-6 | ND | ND | 5.0 | 26.9 | 131.40 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 5.0 | 28.1 | 137.40 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 5.0 | 24.6 | 120.20 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 5.0 | 24.6 | 120.20 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 5.0 | 23.4 | 114.20 |
| Vinyl chloride | 75-01-4 | ND | ND | 5.0 | 12.8 | 62.50 |
| m or p-Xylene | 1330-20-7 | ND | ND | 5.0 | 21.7 | 106.20 |
| o-Xylene | 95-47-6 | ND | ND | 5.0 | 21.7 | 106.20 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*
**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08351
Date Received: 8/10/07
Date Analyzed: 8/31/07
Data File: 083019
Summa ID: 2901

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-C0808 | | Reporting Limits | | |
|---|---|---|---|---|---|---|
| | PAL ID: | E07-08351-04 | | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 | |
| Acetone | 67-64-1 | ND | ND | 5.0 | 11.9 | 58.08 |
| Benzene | 71-43-2 | ND | ND | 5.0 | 16.0 | 78.11 |
| Bromodichloromethane | 75-27-4 | ND | ND | 5.0 | 33.5 | 163.80 |
| Bromoethene | 593-60-2 | ND | ND | 5.0 | 21.9 | 107.00 |
| Bromoform | 75-25-2 | ND | ND | 5.0 | 51.7 | 252.80 |
| Bromomethane | 74-83-9 | ND | ND | 5.0 | 19.4 | 94.94 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 5.0 | 11.1 | 54.09 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 5.0 | 15.2 | 74.14 |
| Carbon disulfide | 75-15-0 | ND | ND | 5.0 | 15.6 | 76.14 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 5.0 | 31.5 | 153.80 |
| Chlorobenzene | 108-90-7 | ND | ND | 5.0 | 23.0 | 112.60 |
| Chloroethane | 75-00-3 | ND | ND | 5.0 | 13.2 | 64.52 |
| Chloroform | 67-66-3 | ND | ND | 5.0 | 24.4 | 119.40 |
| Chloromethane | 74-87-3 | ND | ND | 5.0 | 10.3 | 50.49 |
| 3-Chloropropene | 107-05-1 | ND | ND | 5.0 | 15.6 | 76.49 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 5.0 | 25.9 | 126.60 |
| Cyclohexane | 110-82-7 | ND | ND | 5.0 | 17.2 | 84.16 |
| Dibromochloromethane | 124-48-1 | ND | ND | 5.0 | 42.6 | 208.30 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 5.0 | 38.4 | 187.90 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 5.0 | 30.1 | 147.00 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 5.0 | 30.1 | 147.00 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 5.0 | 30.1 | 147.00 |
| Dichlorodifluoromethane | 75-71-8 | ND | ND | 5.0 | 24.7 | 120.90 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 5.0 | 20.2 | 98.96 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 5.0 | 20.2 | 98.96 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 5.0 | 19.8 | 96.94 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 5.0 | 19.8 | 96.94 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 5.0 | 19.8 | 96.94 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 5.0 | 23.1 | 113.00 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 5.0 | 22.7 | 111.00 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 5.0 | 22.7 | 111.00 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 5.0 | 34.9 | 170.90 |
| Ethylbenzene | 100-41-4 | ND | ND | 5.0 | 21.7 | 106.20 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 5.0 | 24.6 | 120.20 |
| Heptane | 142-82-5 | ND | ND | 5.0 | 20.5 | 100.20 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 5.0 | 53.3 | 260.80 |
| Hexane | 110-54-3 | ND | ND | 5.0 | 17.6 | 86.17 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 5.0 | 12.3 | 60.10 |
| Methyl ethyl ketone | 78-93-3 | ND | ND | 5.0 | 14.7 | 72.11 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 5.0 | 20.5 | 100.20 |
| Methylene chloride | 75-09-2 | ND | ND | 5.0 | 17.4 | 84.94 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*
**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08351
Date Received: 8/10/07
Date Analyzed: 8/31/07
Data File: 083019
Summa ID: 2901

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-C0808 | | Reporting Limits | | |
|---|---|---|---|---|---|---|
| | PAL ID: | E07-08351-04 | | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 | |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 5.0 | 18.0 | 88.15 |
| Styrene | 100-42-5 | ND | ND | 5.0 | 21.3 | 104.10 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 5.0 | 34.3 | 167.90 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 5.0 | 33.9 | 165.80 |
| Toluene | 108-88-3 | ND | ND | 5.0 | 18.8 | 92.14 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 5.0 | 38.3 | 187.40 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 5.0 | 37.1 | 181.50 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 5.0 | 27.3 | 133.40 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 5.0 | 27.3 | 133.40 |
| Trichloroethylene | 79-01-6 | ND | ND | 5.0 | 26.9 | 131.40 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 5.0 | 28.1 | 137.40 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 5.0 | 24.6 | 120.20 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 5.0 | 24.6 | 120.20 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 5.0 | 23.4 | 114.20 |
| Vinyl chloride | 75-01-4 | ND | ND | 5.0 | 12.8 | 62.50 |
| m or p-Xylene | 1330-20-7 | ND | ND | 5.0 | 21.7 | 106.20 |
| o-Xylene | 95-47-6 | ND | ND | 5.0 | 21.7 | 106.20 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

# Summary of Results

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro
Project: 07-0082, Countrywide

Report Date: 8/31/2007
Job Number: E07-08351
Date Received: 8/10/2007
Date Analyzed: 8/28-8/31/07

Analysis: Tentatively Identified Compounds by Library Search

Sample Name: SU-S0808 x 10 dil
IAL ID: E07-08351-01

Data File: 083117
Canister ID 2896B

| Chemical Name | CAS Number | Qual % | Estimated in ppb | Estimated in µg/m3 |
|---|---|---|---|---|
| Hexadecane, 2,6,10,14-tetramethyl- | 638-36-8 | 62 | 35 | 404 |

Sample Name: SU-G0808 x 10 dil
IAL ID: E07-08351-02

Data File: 083017
Canister ID 2768

| Chemical Name | CAS Number | Qual % | Estimated in ppb | Estimated in µg/m3 |
|---|---|---|---|---|
| Acetaldehyde | 75-07-0 | 7 | 3.7 | 6.7 |

Sample Name: SU-W0808 x 10 dil
IAL ID: E07-08351-03

Data File: 083018
Canister ID 3289

| Chemical Name | CAS Number | Qual % | Estimated in ppb | Estimated in µg/m3 |
|---|---|---|---|---|
| No TICS detected | | | | |

Sample Name: SU-C0808 x 10 dil
IAL ID: E07-08351-04

Data File: 083019
Canister ID 2901

| Chemical Name | CAS Number | Qual % | Estimated in ppb | Estimated in µg/m3 |
|---|---|---|---|---|
| No TICS detected | | | | |

**Summary of Results**

Lawhon & Associates, Inc.
975 Eastwind Drive Suite 190
Westerville, OH 43081
Att: Shawn Ansbro
Jobsite: Countywide
Project: #07-0082

Report Date: 8/21/07
Job Number: E07-08351
Date Received: 8/10/07
Date Analyzed: 8/20/07

Analysis: Aldehydes and Ketones, EPA Method TO-11a

| Sample Name: | S0808-01H | | S0808-02H | | S0808-03H | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08351-17 | | E07-08351-18 | | E07-08351-19 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | < 0.1 | < 0.3 | 0.26 | 0.58 | 0.13 | 0.28 | 0.1 |
| Acetaldehyde | < 0.1 | < 0.3 | 0.11 | 0.24 | < 0.1 | < 0.2 | 0.1 |
| Acetone | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acrolein | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 2.1 | < 0.6 | < 1.3 | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.7 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.7 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | G0808-01H | | G0808-02H | | G0808-03H | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08351-20 | | E07-08351-21 | | E07-08351-22 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | < 0.1 | < 0.2 | 0.17 | 0.38 | 0.15 | 0.34 | 0.1 |
| Acetaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acetone | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acrolein | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Benzaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.3 | < 0.6 | < 1.3 | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |



Lawhon & Associates, Inc.
Jobsite: Countywide
Project: #07-0082

Job Number: E07-08351

Analysis: Aldehydes and Ketones, EPA Method TO-11a

| Sample Name: | W0808-01H | | W0808-02H | | W0808-03H* | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08351-23 | | E07-08351-24 | | E07-08351-25 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.14 | 0.83 | 0.34 | 1.0 | 0.30 | 0.66 | 0.1 |
| Acetaldehyde | < 0.1 | < 0.6 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Acetone | < 0.1 | < 0.6 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Acrolein | < 0.1 | < 0.6 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.6 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | 0.11 | 0.63 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.6 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.6 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 3.6 | < 0.6 | < 1.8 | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 1.2 | < 0.2 | < 0.6 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 1.2 | < 0.2 | < 0.6 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.6 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.6 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | C0808-01H | | C0808-02H | | C0808-03H | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08351-26 | | E07-08351-27 | | E07-08351-28 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.26 | 0.58 | 0.12 | 0.27 | 0.15 | 0.32 | 0.1 |
| Acetaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acetone | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acrolein | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.3 | < 0.6 | < 1.3 | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

*Denotes breakthrough from front to back of sorbent tube for Formaldehyde.

Notes: Calculations of concentrations in air are based upon air sampling data reported by client.
Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: D. Mitchell

## Summary of Results

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Report Date: 08/22/07
Job Number: E07-08351
Date Received: 08/10/07
Date Analyzed: 08/20/07

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

| Sample ID | IAL ID | Hydrogen Fluoride ug | Hydrogen Fluoride ug/m3 | Hydrogen Chloride ug | Hydrogen Chloride ug/m3 |
|---|---|---|---|---|---|
| S0808-01H | E07-08351-05 | < 0.6 | < 2.2 | < 0.4 | < 1.3 |
| S0808-02H | E07-08351-06 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| S0808-03H* | E07-08351-07 | 2.1 | 4.5 | 5.8 | 13 |
| G0808-01H | E07-08351-08 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| G0808-02H | E07-08351-09 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| G0808-03H* | E07-08351-10 | < 0.6 | < 1.4 | 1.3 | 2.8 |
| W0808-01H | E07-08351-11 | < 0.6 | < 3.7 | < 0.4 | < 2.3 |
| W0808-02H | E07-08351-12 | < 0.6 | < 1.9 | < 0.4 | < 1.2 |
| W0808-03H | E07-08351-13 | < 0.6 | < 1.4 | < 0.4 | < 0.8 |
| C0808-01H | E07-08351-14 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| C0808-02H | E07-08351-15 | < 0.6 | < 1.4 | < 0.4 | < 0.8 |
| C0808-03H* | E07-08351-16 | 2.0 | 4.5 | 5.7 | 12 |
| Reporting Limit | | 0.6 | | 0.4 | |

*Denotes breakthrough from the front to the back of the sorbent tube. The media within these sorbent tubes was saturated when received.

Note: Calculations of concentrations in air are based upon air sampling data reported by client. Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: D. Mitchell

# Countywide Recycling & Disposal Facility
## Ambient Air Monitoring
## Monthly Report #4

September 20, 2007

# APPENDIX C

# Laboratory Analytical Results from August 14/15, 2007

# *Certificate of Analysis*

**CLIENT INFORMATION**

**Lawhon and Associates, Inc.**
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Project#/Project Site: 07-0082/Countywide
Client Sample ID Nos:
SU-S0814, SU-G0814, SU-W0814, SU-C0814

**LABORATORY INFORMATION**

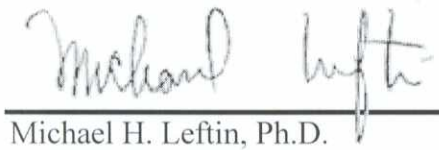
Contact: Michael H. Leftin, Ph.D.
IAL Job No.: E07-08684
Date Received: 8/20/07

Sample Nos.:
E07-08684-01, E07-08684-02, E07-08684-03, E07-08684-04

Samples for this analysis were received in good condition with a chain of custody.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing.
Once analysis has been performed on canisters that meets regulatory criteria, samples are recycled for future use, unless other provisions have been made by the client.

Analysis conducted at Integrated Analytical Laboratory, Randolph NJ
ELAP lab number - 11402
NJDEP number - 14751
AIHA number - 100201



Michael H. Leftin, Ph.D.
Laboratory Director

## *Princeton Analytical*
## Summary of Results

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08684
Date Received: 8/20/07
Date Analyzed: 8/31/07
Data File: 083110
Summa ID: 3009

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-S0814 | | Reporting Limits | |
|---|---|---|---|---|---|
| | PAL ID: | E07-08684-01 | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 |
| Acetone | 67-64-1 | ND | ND | 0.5 | 1.2 |
| Benzene | 71-43-2 | ND | ND | 0.5 | 1.6 |
| Bromodichloromethane | 75-27-4 | ND | ND | 0.5 | 3.3 |
| Bromoethene | 593-60-2 | ND | ND | 0.5 | 2.2 |
| Bromoform | 75-25-2 | ND | ND | 0.5 | 5.2 |
| Bromomethane | 74-83-9 | ND | ND | 0.5 | 1.9 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 0.5 | 1.1 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 0.5 | 1.5 |
| Carbon disulfide | 75-15-0 | ND | ND | 0.5 | 1.6 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 0.5 | 3.1 |
| Chlorobenzene | 108-90-7 | ND | ND | 0.5 | 2.3 |
| Chloroethane | 75-00-3 | ND | ND | 0.5 | 1.3 |
| Chloroform | 67-66-3 | ND | ND | 0.5 | 2.4 |
| Chloromethane | 74-87-3 | ND | ND | 0.5 | 1.0 |
| 3-Chloropropene | 107-05-1 | ND | ND | 0.5 | 1.6 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 0.5 | 2.6 |
| Cyclohexane | 110-82-7 | ND | ND | 0.5 | 1.7 |
| Dibromochloromethane | 124-48-1 | ND | ND | 0.5 | 4.3 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 0.5 | 3.8 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 0.5 | 3.0 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 0.5 | 3.0 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 0.5 | 3.0 |
| Dichlorodifluoromethane | 75-71-8 | 0.76 | 3.8 | 0.5 | 2.5 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 0.5 | 2.0 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 0.5 | 2.0 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 0.5 | 2.0 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 0.5 | 2.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 0.5 | 2.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 0.5 | 2.3 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 0.5 | 3.5 |
| Ethylbenzene | 100-41-4 | ND | ND | 0.5 | 2.2 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 0.5 | 2.5 |
| Heptane | 142-82-5 | ND | ND | 0.5 | 2.0 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 0.5 | 5.3 |
| Hexane | 110-54-3 | ND | ND | 0.5 | 1.8 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 0.5 | 1.2 |
| Methyl ethyl ketone | 78-93-3 | ND | ND | 0.5 | 1.5 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 0.5 | 2.0 |
| Methylene chloride | 75-09-2 | ND | ND | 0.5 | 1.7 |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 0.5 | 1.8 |
| Styrene | 100-42-5 | ND | ND | 0.5 | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 0.5 | 3.4 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 0.5 | 3.4 |
| Toluene | 108-88-3 | ND | ND | 0.5 | 1.9 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 0.5 | 3.8 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 0.5 | 3.7 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 0.5 | 2.7 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 0.5 | 2.7 |
| Trichloroethylene | 79-01-6 | ND | ND | 0.5 | 2.7 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 0.5 | 2.8 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 0.5 | 2.5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 0.5 | 2.5 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 0.5 | 2.3 |
| Vinyl chloride | 75-01-4 | ND | ND | 0.5 | 1.3 |
| m or p-Xylene | 1330-20-7 | ND | ND | 0.5 | 2.2 |
| o-Xylene | 95-47-6 | ND | ND | 0.5 | 2.2 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*
**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08684
Date Received: 8/20/07
Date Analyzed: 8/31/07
Data File: 083111
Summa ID: 3278

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-G0814 | | Reporting Limits | |
|---|---|---|---|---|---|
| | PAL ID: | E07-08684-02 | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 |
| Acetone | 67-64-1 | ND | ND | 0.5 | 1.2 |
| Benzene | 71-43-2 | ND | ND | 0.5 | 1.6 |
| Bromodichloromethane | 75-27-4 | ND | ND | 0.5 | 3.3 |
| Bromoethene | 593-60-2 | ND | ND | 0.5 | 2.2 |
| Bromoform | 75-25-2 | ND | ND | 0.5 | 5.2 |
| Bromomethane | 74-83-9 | ND | ND | 0.5 | 1.9 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 0.5 | 1.1 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 0.5 | 1.5 |
| Carbon disulfide | 75-15-0 | ND | ND | 0.5 | 1.6 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 0.5 | 3.1 |
| Chlorobenzene | 108-90-7 | ND | ND | 0.5 | 2.3 |
| Chloroethane | 75-00-3 | ND | ND | 0.5 | 1.3 |
| Chloroform | 67-66-3 | ND | ND | 0.5 | 2.4 |
| Chloromethane | 74-87-3 | ND | ND | 0.5 | 1.0 |
| 3-Chloropropene | 107-05-1 | ND | ND | 0.5 | 1.6 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 0.5 | 2.6 |
| Cyclohexane | 110-82-7 | ND | ND | 0.5 | 1.7 |
| Dibromochloromethane | 124-48-1 | ND | ND | 0.5 | 4.3 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 0.5 | 3.8 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 0.5 | 3.0 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 0.5 | 3.0 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 0.5 | 3.0 |
| Dichlorodifluoromethane | 75-71-8 | 0.81 | 4.0 | 0.5 | 2.5 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 0.5 | 2.0 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 0.5 | 2.0 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 0.5 | 2.0 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 0.5 | 2.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 0.5 | 2.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 0.5 | 2.3 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 0.5 | 3.5 |
| Ethylbenzene | 100-41-4 | ND | ND | 0.5 | 2.2 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 0.5 | 2.5 |
| Heptane | 142-82-5 | ND | ND | 0.5 | 2.0 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 0.5 | 5.3 |
| Hexane | 110-54-3 | ND | ND | 0.5 | 1.8 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 0.5 | 1.2 |
| Methyl ethyl ketone | 78-93-3 | ND | ND | 0.5 | 1.5 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 0.5 | 2.0 |
| Methylene chloride | 75-09-2 | ND | ND | 0.5 | 1.7 |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 0.5 | 1.8 |
| Styrene | 100-42-5 | ND | ND | 0.5 | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 0.5 | 3.4 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 0.5 | 3.4 |
| Toluene | 108-88-3 | ND | ND | 0.5 | 1.9 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 0.5 | 3.8 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 0.5 | 3.7 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 0.5 | 2.7 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 0.5 | 2.7 |
| Trichloroethylene | 79-01-6 | ND | ND | 0.5 | 2.7 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 0.5 | 2.8 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 0.5 | 2.5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 0.5 | 2.5 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 0.5 | 2.3 |
| Vinyl chloride | 75-01-4 | ND | ND | 0.5 | 1.3 |
| m or p-Xylene | 1330-20-7 | ND | ND | 0.5 | 2.2 |
| o-Xylene | 95-47-6 | ND | ND | 0.5 | 2.2 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*
**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08684
Date Received: 8/20/07
Date Analyzed: 8/31/07
Data File: 083112
Summa ID: 3292

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-W0814 | | Reporting Limits | |
|---|---|---|---|---|---|
| | PAL ID: | E07-08684-03 | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 |
| Acetone | 67-64-1 | ND | ND | 0.5 | 1.2 |
| Benzene | 71-43-2 | ND | ND | 0.5 | 1.6 |
| Bromodichloromethane | 75-27-4 | ND | ND | 0.5 | 3.3 |
| Bromoethene | 593-60-2 | ND | ND | 0.5 | 2.2 |
| Bromoform | 75-25-2 | ND | ND | 0.5 | 5.2 |
| Bromomethane | 74-83-9 | ND | ND | 0.5 | 1.9 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 0.5 | 1.1 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 0.5 | 1.5 |
| Carbon disulfide | 75-15-0 | ND | ND | 0.5 | 1.6 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 0.5 | 3.1 |
| Chlorobenzene | 108-90-7 | ND | ND | 0.5 | 2.3 |
| Chloroethane | 75-00-3 | ND | ND | 0.5 | 1.3 |
| Chloroform | 67-66-3 | ND | ND | 0.5 | 2.4 |
| Chloromethane | 74-87-3 | ND | ND | 0.5 | 1.0 |
| 3-Chloropropene | 107-05-1 | ND | ND | 0.5 | 1.6 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 0.5 | 2.6 |
| Cyclohexane | 110-82-7 | ND | ND | 0.5 | 1.7 |
| Dibromochloromethane | 124-48-1 | ND | ND | 0.5 | 4.3 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 0.5 | 3.8 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 0.5 | 3.0 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 0.5 | 3.0 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 0.5 | 3.0 |
| Dichlorodifluoromethane | 75-71-8 | 0.67 | 3.3 | 0.5 | 2.5 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 0.5 | 2.0 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 0.5 | 2.0 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 0.5 | 2.0 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 0.5 | 2.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 0.5 | 2.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 0.5 | 2.3 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 0.5 | 3.5 |
| Ethylbenzene | 100-41-4 | ND | ND | 0.5 | 2.2 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 0.5 | 2.5 |
| Heptane | 142-82-5 | ND | ND | 0.5 | 2.0 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 0.5 | 5.3 |
| Hexane | 110-54-3 | ND | ND | 0.5 | 1.8 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 0.5 | 1.2 |
| Methyl ethyl ketone | 78-93-3 | ND | ND | 0.5 | 1.5 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 0.5 | 2.0 |
| Methylene chloride | 75-09-2 | ND | ND | 0.5 | 1.7 |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 0.5 | 1.8 |
| Styrene | 100-42-5 | ND | ND | 0.5 | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 0.5 | 3.4 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 0.5 | 3.4 |
| Toluene | 108-88-3 | ND | ND | 0.5 | 1.9 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 0.5 | 3.8 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 0.5 | 3.7 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 0.5 | 2.7 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 0.5 | 2.7 |
| Trichloroethylene | 79-01-6 | ND | ND | 0.5 | 2.7 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 0.5 | 2.8 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 0.5 | 2.5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 0.5 | 2.5 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 0.5 | 2.3 |
| Vinyl chloride | 75-01-4 | ND | ND | 0.5 | 1.3 |
| m or p-Xylene | 1330-20-7 | 1.1 | 4.8 | 0.5 | 2.2 |
| o-Xylene | 95-47-6 | ND | ND | 0.5 | 2.2 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*
**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08684
Date Received: 8/20/07
Date Analyzed: 8/31/07
Data File: 083113
Summa ID: 2885

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-C0814 | | Reporting Limits | |
|---|---|---|---|---|---|
| | PAL ID: | E07-08684-04 | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 |
| Acetone | 67-64-1 | ND | ND | 0.5 | 1.2 |
| Benzene | 71-43-2 | ND | ND | 0.5 | 1.6 |
| Bromodichloromethane | 75-27-4 | ND | ND | 0.5 | 3.3 |
| Bromoethene | 593-60-2 | ND | ND | 0.5 | 2.2 |
| Bromoform | 75-25-2 | ND | ND | 0.5 | 5.2 |
| Bromomethane | 74-83-9 | ND | ND | 0.5 | 1.9 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 0.5 | 1.1 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 0.5 | 1.5 |
| Carbon disulfide | 75-15-0 | ND | ND | 0.5 | 1.6 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 0.5 | 3.1 |
| Chlorobenzene | 108-90-7 | ND | ND | 0.5 | 2.3 |
| Chloroethane | 75-00-3 | ND | ND | 0.5 | 1.3 |
| Chloroform | 67-66-3 | ND | ND | 0.5 | 2.4 |
| Chloromethane | 74-87-3 | ND | ND | 0.5 | 1.0 |
| 3-Chloropropene | 107-05-1 | ND | ND | 0.5 | 1.6 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 0.5 | 2.6 |
| Cyclohexane | 110-82-7 | ND | ND | 0.5 | 1.7 |
| Dibromochloromethane | 124-48-1 | ND | ND | 0.5 | 4.3 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 0.5 | 3.8 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 0.5 | 3.0 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 0.5 | 3.0 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 0.5 | 3.0 |
| Dichlorodifluoromethane | 75-71-8 | 0.83 | 4.1 | 0.5 | 2.5 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 0.5 | 2.0 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 0.5 | 2.0 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 0.5 | 2.0 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 0.5 | 2.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 0.5 | 2.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 0.5 | 2.3 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 0.5 | 3.5 |
| Ethylbenzene | 100-41-4 | ND | ND | 0.5 | 2.2 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 0.5 | 2.5 |
| Heptane | 142-82-5 | ND | ND | 0.5 | 2.0 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 0.5 | 5.3 |
| Hexane | 110-54-3 | ND | ND | 0.5 | 1.8 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 0.5 | 1.2 |
| Methyl ethyl ketone | 78-93-3 | ND | ND | 0.5 | 1.5 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 0.5 | 2.0 |
| Methylene chloride | 75-09-2 | ND | ND | 0.5 | 1.7 |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 0.5 | 1.8 |
| Styrene | 100-42-5 | ND | ND | 0.5 | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 0.5 | 3.4 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 0.5 | 3.4 |
| Toluene | 108-88-3 | ND | ND | 0.5 | 1.9 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 0.5 | 3.8 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 0.5 | 3.7 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 0.5 | 2.7 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 0.5 | 2.7 |
| Trichloroethylene | 79-01-6 | ND | ND | 0.5 | 2.7 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 0.5 | 2.8 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 0.5 | 2.5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 0.5 | 2.5 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 0.5 | 2.3 |
| Vinyl chloride | 75-01-4 | ND | ND | 0.5 | 1.3 |
| m or p-Xylene | 1330-20-7 | ND | ND | 0.5 | 2.2 |
| o-Xylene | 95-47-6 | ND | ND | 0.5 | 2.2 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

# Summary of Results

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro
Project: 07-0082, Countrywide

Report Date: 9/4/2007
Job Number: E07-08684
Date Received: 8/20/2007
Date Analyzed: 8/31/2007

Analysis: Tentatively Identified Compounds by Library Search

Sample Name: SU-W0814
IAL ID: E07-08684-03

Data File: 083112
Canister ID 3292

| Chemical Name | CAS Number | Qual % | Estimated in ppb | Estimated in µg/m3 |
|---|---|---|---|---|
| Isobutane | 75-28-5 | 4 | 4.0 | 9.5 |
| Butane | 106-97-8 | 59 | 4.6 | 11 |
| Acetonitrile | 75-05-8 | 40 | 32 | 54 |
| Pentane | 109-66-0 | 72 | 5.1 | 15 |
| Pentane, 2-methyl- | 107-83-5 | 87 | 1.6 | 5.6 |

Sample Name: SU-C0814
IAL ID: E07-08684-04

Data File: 083113
Canister ID 2885

| Chemical Name | CAS Number | Qual % | Estimated in ppb | Estimated in µg/m3 |
|---|---|---|---|---|
| Isobutane | 75-28-5 | 64 | 4.0 | 9.5 |
| Butane | 106-97-8 | 59 | 4.5 | 11 |
| Acetonitrile | 75-05-8 | 40 | 5.3 | 8.9 |
| Butane, 2-methyl- | 78-78-4 | 38 | 9.4 | 28 |
| Pentane | 109-66-0 | 90 | 1.4 | 4.1 |
| 1,4-Pentadiene | 591-93-5 | 91 | 2.4 | 8.4 |

# Summary of Results

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro
Project: 07-0082, Countrywide

Analysis: Tentatively Identified Compounds by Library Search

Sample Name: SU-S0814
IAL ID: E07-08684-01

| Chemical Name | CAS Number | Qual % |
|---|---|---|
| Isobutane | 75-28-5 | 50 |
| Butane | 106-97-8 | 45 |
| Acetonitrile | 75-05-8 | 64 |

Sample Name: SU-G0814
IAL ID: E07-08684-02

| Chemical Name | CAS Number | Qual % |
|---|---|---|
| Isobutane | 75-28-5 | 72 |
| Butane | 106-97-8 | 50 |
| Acetonitrile | 75-05-8 | 40 |
| Butane, 2-methyl- | 78-78-4 | 64 |
| Pentane | 109-66-0 | 72 |
| Pentane, 2-methyl- | 107-83-5 | 91 |
| Dodecane | 112-40-3 | 70 |

Report Date: 9/4/2007
Job Number: E07-08684
Date Received: 8/20/2007
Date Analyzed: 8/31/2007

Data File: 083110
Canister ID 3009

| Estimated in ppb | Estimated in µg/m3 |
|---|---|
| 4.1 | 9.7 |
| 4.0 | 9.5 |
| 77 | 129 |

Data File: 083111
Canister ID 3278

| Estimated in ppb | Estimated in µg/m3 |
|---|---|
| 4.0 | 9.5 |
| 4.4 | 10 |
| 15 | 25 |
| 13 | 38 |
| 4.5 | 13 |
| 1.6 | 5.6 |
| 29 | 202 |

## Summary of Results

Lawhon & Associates, Inc.
975 Eastwind Drive Suite 190
Westerville, OH 43081
Att: Shawn Ansbro
Jobsite: Countywide
Project: #07-0082

Report Date: 8/28/07
Job Number: E07-08684
Date Received: 8/20/07
Date Analyzed: 8/22/07

Analysis: Aldehydes and Ketones, EPA Method TO-11a

8/14

| Sample Name: | S0814-01H | | S0814-02H | | S0814-03H | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08684-17 | | E07-08684-18 | | E07-08684-19 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.11 | 0.24 | 0.16 | 0.34 | < 0.1 | < 0.2 | 0.1 |
| Acetaldehyde | 0.11 | 0.24 | 0.11 | 0.23 | < 0.1 | < 0.2 | 0.1 |
| Acetone | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acrolein | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.3 | < 0.6 | < 1.3 | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | G0814-01H | | G0814-02H | | G0814-03H | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08684-20 | | E07-08684-21 | | E07-08684-22 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | < 0.1 | < 0.2 | 0.58 | 1.2 | < 0.1 | < 0.2 | 0.1 |
| Acetaldehyde | 0.13 | 0.30 | 0.22 | 0.46 | < 0.1 | < 0.2 | 0.1 |
| Acetone | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acrolein | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Benzaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.3 | < 0.6 | < 1.3 | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |



Lawhon & Associates, Inc. Job Number: E07-08684
Jobsite: Countywide
Project: #07-0082

Analysis: Aldehydes and Ketones, EPA Method TO-11a

| Sample Name: | W0814-01H | | W0814-02H | | W0814-03H | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08684-23 | | E07-08684-24 | | E07-08684-25 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acetaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acetone | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acrolein | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.3 | < 0.6 | < 1.2 | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | C0814-01H | | C0814-02H | | C0814-03H | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08684-26 | | E07-08684-27 | | E07-08684-28 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acetaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acetone | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acrolein | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.3 | < 0.6 | < 1.3 | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

Notes: Calculations of concentrations in air are based upon air sampling data reported by client.
Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: D. Mitchell

## Summary of Results

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Report Date: 08/28/07
Job Number: E07-08684
Date Received: 08/20/07
Date Analyzed: 08/23/07

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

| | | Hydrogen Fluoride | | Hydrogen Chloride | |
|---|---|---|---|---|---|
| Sample ID | IAL ID | ug | ug/m3 | ug | ug/m3 |
| S0814-01H | E07-08684-05 | < 0.6 | < 1.4 | 1.1 | 2.4 |
| S0814-02H | E07-08684-06 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| S0814-03H | E07-08684-07 | < 0.6 | < 1.4 | 0.45 | 1.0 |
| G0814-01H | E07-08684-08 | < 0.6 | < 1.4 | 0.57 | 1.3 |
| G0814-02H | E07-08684-09 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| G0814-03H | E07-08684-10 | < 0.6 | < 1.3 | 0.40 | 0.85 |
| W0814-01H | E07-08684-11 | < 0.6 | < 1.4 | 0.42 | 0.95 |
| W0814-02H | E07-08684-12 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| W0814-03H | E07-08684-13 | < 0.6 | < 1.3 | 0.50 | 1.1 |
| C0814-01H* | E07-08684-14 | < 0.6 | < 1.4 | 1.3 | 2.8 |
| C0814-02H | E07-08684-15 | < 0.6 | < 1.3 | 1.1 | 2.4 |
| C0814-03H* | E07-08684-16 | < 0.6 | < 1.3 | 0.72 | 1.5 |
| Reporting Limit | | 0.6 | | 0.4 | |

* Denotes breakthrough from the front to the back of the sorbent tube for chloride.

Note: Calculations of concentrations in air are based upon air sampling data reported by client.
Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: D. Mitchell

# Countywide Recycling & Disposal Facility
## Ambient Air Monitoring
## Monthly Report #4

September 20, 2007

# APPENDIX D

# Laboratory Analytical Results from August 20/21, 2007

# *Certificate of Analysis*

**CLIENT INFORMATION**

**Lawhon and Associates, Inc.**
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Project#/Project Site: 07-0082/Countywide
Client Sample ID Nos:
SU-S0820, SU-G0820, SU-W0820, SU-C0820

**LABORATORY INFORMATION**

Contact: Michael H. Leftin, Ph.D.
IAL Job No.: E07-08749
Date Received: 8/22/07

Sample Nos.:
E07-08749-01, E07-08749-02, E07-08749-03, E07-08749-04

Samples for this analysis were received in good condition with a chain of custody.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing.
Once analysis has been performed on canisters that meets regulatory criteria, samples are recycled for future use, unless other provisions have been made by the client.

Analysis conducted at Integrated Analytical Laboratory, Randolph NJ
ELAP lab number - 11402
NJDEP number - 14751
AIHA number - 100201

Michael H. Leftin, Ph.D.
Laboratory Director

*Princeton Analytical*

**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08749
Date Received: 8/22/07
Date Analyzed: 9/4/07
Data File: 090404
Summa ID: 3293

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-S0820 | | Reporting Limits | |
|---|---|---|---|---|---|
| | PAL ID: | E07-08749-01 | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 |
| Acetone | 67-64-1 | ND | ND | 0.5 | 1.2 |
| Benzene | 71-43-2 | ND | ND | 0.5 | 1.6 |
| Bromodichloromethane | 75-27-4 | ND | ND | 0.5 | 3.3 |
| Bromoethene | 593-60-2 | ND | ND | 0.5 | 2.2 |
| Bromoform | 75-25-2 | ND | ND | 0.5 | 5.2 |
| Bromomethane | 74-83-9 | ND | ND | 0.5 | 1.9 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 0.5 | 1.1 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 0.5 | 1.5 |
| Carbon disulfide | 75-15-0 | ND | ND | 0.5 | 1.6 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 0.5 | 3.1 |
| Chlorobenzene | 108-90-7 | ND | ND | 0.5 | 2.3 |
| Chloroethane | 75-00-3 | ND | ND | 0.5 | 1.3 |
| Chloroform | 67-66-3 | ND | ND | 0.5 | 2.4 |
| Chloromethane | 74-87-3 | ND | ND | 0.5 | 1.0 |
| 3-Chloropropene | 107-05-1 | ND | ND | 0.5 | 1.6 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 0.5 | 2.6 |
| Cyclohexane | 110-82-7 | ND | ND | 0.5 | 1.7 |
| Dibromochloromethane | 124-48-1 | ND | ND | 0.5 | 4.3 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 0.5 | 3.8 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 0.5 | 3.0 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 0.5 | 3.0 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 0.5 | 3.0 |
| Dichlorodifluoromethane | 75-71-8 | 0.54 | 2.7 | 0.5 | 2.5 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 0.5 | 2.0 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 0.5 | 2.0 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 0.5 | 2.0 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 0.5 | 2.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 0.5 | 2.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 0.5 | 2.3 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 0.5 | 3.5 |
| Ethylbenzene | 100-41-4 | ND | ND | 0.5 | 2.2 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 0.5 | 2.5 |
| Heptane | 142-82-5 | ND | ND | 0.5 | 2.0 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 0.5 | 5.3 |
| Hexane | 110-54-3 | ND | ND | 0.5 | 1.8 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 0.5 | 1.2 |
| Methyl ethyl ketone | 78-93-3 | ND | ND | 0.5 | 1.5 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 0.5 | 2.0 |
| Methylene chloride | 75-09-2 | ND | ND | 0.5 | 1.7 |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 0.5 | 1.8 |
| Styrene | 100-42-5 | ND | ND | 0.5 | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 0.5 | 3.4 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 0.5 | 3.4 |
| Toluene | 108-88-3 | ND | ND | 0.5 | 1.9 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 0.5 | 3.8 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 0.5 | 3.7 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 0.5 | 2.7 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 0.5 | 2.7 |
| Trichloroethylene | 79-01-6 | ND | ND | 0.5 | 2.7 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 0.5 | 2.8 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 0.5 | 2.5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 0.5 | 2.5 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 0.5 | 2.3 |
| Vinyl chloride | 75-01-4 | ND | ND | 0.5 | 1.3 |
| m or p-Xylene | 1330-20-7 | ND | ND | 0.5 | 2.2 |
| o-Xylene | 95-47-6 | ND | ND | 0.5 | 2.2 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*
**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08749
Date Received: 8/22/07
Date Analyzed: 9/5/07
Data File: 090501
Summa ID: 2755

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-G0820 | | Reporting Limits | |
|---|---|---|---|---|---|
| | PAL ID: | E07-08749-02 | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 |
| Acetone | 67-64-1 | ND | ND | 0.5 | 1.2 |
| Benzene | 71-43-2 | ND | ND | 0.5 | 1.6 |
| Bromodichloromethane | 75-27-4 | ND | ND | 0.5 | 3.3 |
| Bromoethene | 593-60-2 | ND | ND | 0.5 | 2.2 |
| Bromoform | 75-25-2 | ND | ND | 0.5 | 5.2 |
| Bromomethane | 74-83-9 | ND | ND | 0.5 | 1.9 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 0.5 | 1.1 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 0.5 | 1.5 |
| Carbon disulfide | 75-15-0 | ND | ND | 0.5 | 1.6 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 0.5 | 3.1 |
| Chlorobenzene | 108-90-7 | ND | ND | 0.5 | 2.3 |
| Chloroethane | 75-00-3 | ND | ND | 0.5 | 1.3 |
| Chloroform | 67-66-3 | ND | ND | 0.5 | 2.4 |
| Chloromethane | 74-87-3 | ND | ND | 0.5 | 1.0 |
| 3-Chloropropene | 107-05-1 | ND | ND | 0.5 | 1.6 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 0.5 | 2.6 |
| Cyclohexane | 110-82-7 | ND | ND | 0.5 | 1.7 |
| Dibromochloromethane | 124-48-1 | ND | ND | 0.5 | 4.3 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 0.5 | 3.8 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 0.5 | 3.0 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 0.5 | 3.0 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 0.5 | 3.0 |
| Dichlorodifluoromethane | 75-71-8 | 0.52 | 2.6 | 0.5 | 2.5 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 0.5 | 2.0 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 0.5 | 2.0 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 0.5 | 2.0 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 0.5 | 2.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 0.5 | 2.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 0.5 | 2.3 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 0.5 | 3.5 |
| Ethylbenzene | 100-41-4 | ND | ND | 0.5 | 2.2 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 0.5 | 2.5 |
| Heptane | 142-82-5 | ND | ND | 0.5 | 2.0 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 0.5 | 5.3 |
| Hexane | 110-54-3 | ND | ND | 0.5 | 1.8 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 0.5 | 1.2 |
| Methyl ethyl ketone | 78-93-3 | ND | ND | 0.5 | 1.5 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 0.5 | 2.0 |
| Methylene chloride | 75-09-2 | ND | ND | 0.5 | 1.7 |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 0.5 | 1.8 |
| Styrene | 100-42-5 | ND | ND | 0.5 | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 0.5 | 3.4 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 0.5 | 3.4 |
| Toluene | 108-88-3 | ND | ND | 0.5 | 1.9 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 0.5 | 3.8 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 0.5 | 3.7 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 0.5 | 2.7 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 0.5 | 2.7 |
| Trichloroethylene | 79-01-6 | ND | ND | 0.5 | 2.7 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 0.5 | 2.8 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 0.5 | 2.5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 0.5 | 2.5 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 0.5 | 2.3 |
| Vinyl chloride | 75-01-4 | ND | ND | 0.5 | 1.3 |
| m or p-Xylene | 1330-20-7 | 0.57 | 2.5 | 0.5 | 2.2 |
| o-Xylene | 95-47-6 | ND | ND | 0.5 | 2.2 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*
**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08749
Date Received: 8/22/07
Date Analyzed: 9/4/07
Data File: 090406
Summa ID: 2066

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-W0820 | | Reporting Limits | |
|---|---|---|---|---|---|
| | PAL ID: | E07-08749-03 | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 |
| Acetone | 67-64-1 | ND | ND | 0.5 | 1.2 |
| Benzene | 71-43-2 | ND | ND | 0.5 | 1.6 |
| Bromodichloromethane | 75-27-4 | ND | ND | 0.5 | 3.3 |
| Bromoethene | 593-60-2 | ND | ND | 0.5 | 2.2 |
| Bromoform | 75-25-2 | ND | ND | 0.5 | 5.2 |
| Bromomethane | 74-83-9 | ND | ND | 0.5 | 1.9 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 0.5 | 1.1 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 0.5 | 1.5 |
| Carbon disulfide | 75-15-0 | ND | ND | 0.5 | 1.6 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 0.5 | 3.1 |
| Chlorobenzene | 108-90-7 | ND | ND | 0.5 | 2.3 |
| Chloroethane | 75-00-3 | ND | ND | 0.5 | 1.3 |
| Chloroform | 67-66-3 | ND | ND | 0.5 | 2.4 |
| Chloromethane | 74-87-3 | ND | ND | 0.5 | 1.0 |
| 3-Chloropropene | 107-05-1 | ND | ND | 0.5 | 1.6 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 0.5 | 2.6 |
| Cyclohexane | 110-82-7 | ND | ND | 0.5 | 1.7 |
| Dibromochloromethane | 124-48-1 | ND | ND | 0.5 | 4.3 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 0.5 | 3.8 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 0.5 | 3.0 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 0.5 | 3.0 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 0.5 | 3.0 |
| Dichlorodifluoromethane | 75-71-8 | 0.98 | 4.9 | 0.5 | 2.5 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 0.5 | 2.0 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 0.5 | 2.0 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 0.5 | 2.0 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 0.5 | 2.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 0.5 | 2.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 0.5 | 2.3 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 0.5 | 3.5 |
| Ethylbenzene | 100-41-4 | ND | ND | 0.5 | 2.2 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 0.5 | 2.5 |
| Heptane | 142-82-5 | ND | ND | 0.5 | 2.0 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 0.5 | 5.3 |
| Hexane | 110-54-3 | ND | ND | 0.5 | 1.8 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 0.5 | 1.2 |
| Methyl ethyl ketone | 78-93-3 | ND | ND | 0.5 | 1.5 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 0.5 | 2.0 |
| Methylene chloride | 75-09-2 | ND | ND | 0.5 | 1.7 |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 0.5 | 1.8 |
| Styrene | 100-42-5 | ND | ND | 0.5 | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 0.5 | 3.4 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 0.5 | 3.4 |
| Toluene | 108-88-3 | ND | ND | 0.5 | 1.9 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 0.5 | 3.8 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 0.5 | 3.7 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 0.5 | 2.7 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 0.5 | 2.7 |
| Trichloroethylene | 79-01-6 | ND | ND | 0.5 | 2.7 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 0.5 | 2.8 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 0.5 | 2.5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 0.5 | 2.5 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 0.5 | 2.3 |
| Vinyl chloride | 75-01-4 | ND | ND | 0.5 | 1.3 |
| m or p-Xylene | 1330-20-7 | 1.1 | 4.8 | 0.5 | 2.2 |
| o-Xylene | 95-47-6 | ND | ND | 0.5 | 2.2 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

*Princeton Analytical*

**Summary of Results**

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OD 43081
Attn: Shawn Ansbro
Project: 07-0082
Site: Countywide

Report Date: 9/6/07
Job Number: E07-08749
Date Received: 8/22/07
Date Analyzed: 9/5/07
Data File: 090502
Summa ID: 3045

Analysis: Volatile Organic Compounds by EPA Method TO-15m

| | Sample Name: | SU-C0820 | | Reporting Limits | |
|---|---|---|---|---|---|
| | PAL ID: | E07-08749-04 | | | |
| Compound | CAS # | ppbv | ug/m3 | ppbv | ug/m3 |
| Acetone | 67-64-1 | 1.7 | 4.0 | 0.5 | 1.2 |
| Benzene | 71-43-2 | ND | ND | 0.5 | 1.6 |
| Bromodichloromethane | 75-27-4 | ND | ND | 0.5 | 3.3 |
| Bromoethene | 593-60-2 | ND | ND | 0.5 | 2.2 |
| Bromoform | 75-25-2 | ND | ND | 0.5 | 5.2 |
| Bromomethane | 74-83-9 | ND | ND | 0.5 | 1.9 |
| 1,3-Butadiene | 106-99-0 | ND | ND | 0.5 | 1.1 |
| tert-Butyl alcohol | 75-65-0 | ND | ND | 0.5 | 1.5 |
| Carbon disulfide | 75-15-0 | ND | ND | 0.5 | 1.6 |
| Carbon tetrachloride | 56-23-5 | ND | ND | 0.5 | 3.1 |
| Chlorobenzene | 108-90-7 | ND | ND | 0.5 | 2.3 |
| Chloroethane | 75-00-3 | ND | ND | 0.5 | 1.3 |
| Chloroform | 67-66-3 | ND | ND | 0.5 | 2.4 |
| Chloromethane | 74-87-3 | ND | ND | 0.5 | 1.0 |
| 3-Chloropropene | 107-05-1 | ND | ND | 0.5 | 1.6 |
| 2-Chlorotoluene | 95-49-8 | ND | ND | 0.5 | 2.6 |
| Cyclohexane | 110-82-7 | ND | ND | 0.5 | 1.7 |
| Dibromochloromethane | 124-48-1 | ND | ND | 0.5 | 4.3 |
| 1,2-Dibromoethane | 106-93-4 | ND | ND | 0.5 | 3.8 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ND | 0.5 | 3.0 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ND | 0.5 | 3.0 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ND | 0.5 | 3.0 |
| Dichlorodifluoromethane | 75-71-8 | ND | ND | 0.5 | 2.5 |
| 1,1-Dichloroethane | 75-34-3 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloroethane | 107-06-2 | ND | ND | 0.5 | 2.0 |
| 1,1-Dichloroethylene | 75-35-4 | ND | ND | 0.5 | 2.0 |
| cis-1,2-Dichloroethylene | 156-59-2 | ND | ND | 0.5 | 2.0 |
| trans-1,2-Dichloroethylene | 156-60-5 | ND | ND | 0.5 | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | ND | ND | 0.5 | 2.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ND | 0.5 | 2.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ND | 0.5 | 2.3 |
| Dichlorotetrafluoroethane | 76-14-2 | ND | ND | 0.5 | 3.5 |
| Ethylbenzene | 100-41-4 | ND | ND | 0.5 | 2.2 |
| 4-Ethyltoluene | 622-96-8 | ND | ND | 0.5 | 2.5 |
| Heptane | 142-82-5 | ND | ND | 0.5 | 2.0 |
| Hexachlorobutadiene | 87-68-3 | ND | ND | 0.5 | 5.3 |
| Hexane | 110-54-3 | ND | ND | 0.5 | 1.8 |
| Isopropyl alcohol | 67-63-0 | ND | ND | 0.5 | 1.2 |
| Methyl ethyl ketone | 78-93-3 | ND | ND | 0.5 | 1.5 |
| Methyl isobutyl ketone | 108-10-1 | ND | ND | 0.5 | 2.0 |
| Methylene chloride | 75-09-2 | ND | ND | 0.5 | 1.7 |
| Methyl-t-butyl ether | 1634-04-4 | ND | ND | 0.5 | 1.8 |
| Styrene | 100-42-5 | ND | ND | 0.5 | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ND | 0.5 | 3.4 |
| Tetrachloroethylene | 127-18-4 | ND | ND | 0.5 | 3.4 |
| Toluene | 108-88-3 | ND | ND | 0.5 | 1.9 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ND | ND | 0.5 | 3.8 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ND | 0.5 | 3.7 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ND | 0.5 | 2.7 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ND | 0.5 | 2.7 |
| Trichloroethylene | 79-01-6 | ND | ND | 0.5 | 2.7 |
| Trichlorofluoromethane | 75-69-4 | ND | ND | 0.5 | 2.8 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ND | 0.5 | 2.5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ND | 0.5 | 2.5 |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ND | 0.5 | 2.3 |
| Vinyl chloride | 75-01-4 | ND | ND | 0.5 | 1.3 |
| m or p-Xylene | 1330-20-7 | 0.80 | 3.5 | 0.5 | 2.2 |
| o-Xylene | 95-47-6 | ND | ND | 0.5 | 2.2 |

D = Extra dilution required for this compound



Analyst: J. Schmitt

# Summary of Results

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro
Project: 07-0082, Countrywide

Report Date: 9/6/2007
Job Number: E07-08749
Date Received: 8/22/2007
Date Analyzed: 9/5/2007

Analysis: Tentatively Identified Compounds by Library Search

Sample Name: SU-S0820
IAL ID: E07-08749-01

Data File: 090404
Canister ID 3293

| Chemical Name | CAS Number | Qual % | Estimated in ppb | Estimated in µg/m3 |
|---|---|---|---|---|
| Butane | 106-97-8 | 42 | 3.4 | 8.1 |
| Ethanol | 64-17-5 | 80 | 2.5 | 4.7 |
| Acetonitrile | 75-05-8 | 42 | 49 | 82 |
| Cyclotrisiloxane, hexamethyl- | 541-05-9 | 91 | 4.7 | 43 |
| Tetradecane | 629-59-4 | 97 | 1.6 | 13 |
| Cyclotetrasiloxane, octamethyl- | 556-67-2 | 58 | 5.1 | 62 |
| Octadecane | 593-45-3 | 94 | 7.0 | 73 |
| Butanamide, 2,2,3,3,4,4,4-heptaf... | 55471-01-7 | 64 | 2.6 | 52 |

Sample Name: SU-G0820
IAL ID: E07-08749-02

Data File: 090501
Canister ID 2755

| Chemical Name | CAS Number | Qual % | Estimated in ppb | Estimated in µg/m3 |
|---|---|---|---|---|
| Butane, 2-methyl- | 78-78-4 | 38 | 3.9 | 11 |

# Summary of Results

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro
Project: 07-0082, Countrywide

Report Date 9/6/2007
Job Number E07-08749
Date Receiv 8/22/2007
Date Analyz 9/5/2007

Analysis: Tentatively Identified Compounds by Library Search

Sample Name: SU-W0820
IAL ID: E07-08749-03

Data File: 090406
Canister ID 2066

| Chemical Name | CAS Number | Qual % | Estimated in ppb | Estimated in µg/m3 |
|---|---|---|---|---|
| Butane | 106-97-8 | 38 | 5.4 | 13 |
| Acetonitrile | 75-05-8 | 38 | 43 | 72 |
| 1,3-Butadiene, 2-methyl- | 78-79-5 | 91 | 7.8 | 23 |
| Cyclotrisiloxane, hexamethyl- | 541-05-9 | 90 | 2.7 | 25 |
| Pentadecane | 629-62-9 | 97 | 1.1 | 10 |

Sample Name: SU-C0820
IAL ID: E07-08749-04

Data File: 090502
Canister ID 3045

| Chemical Name | CAS Number | Qual % | Estimated in ppb | Estimated in µg/m3 |
|---|---|---|---|---|
| No TICs Detected | | | | |

**Summary of Results**

Lawhon & Associates, Inc.
975 Eastwind Drive Suite 190
Westerville, OH 43081
Att: Shawn Ansbro
Jobsite: Countywide
Project: #07-0082

Report Date: 9/05/07
Job Number: E07-08749
Date Received: 8/22/07
Date Analyzed: 8/28/07

Analysis: Aldehydes and Ketones, EPA Method TO-11a

| Sample Name: | S0820-01H | | S0820-02H | | S0820-03H* | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08749-17 | | E07-08749-18 | | E07-08749-19 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | < 0.1 | < 0.3 | 0.15 | 0.31 | 0.15 | 0.45 | 0.1 |
| Acetaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.34 | 1.0 | 0.1 |
| Acetone | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Acrolein | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.9 | < 0.6 | < 1.2 | < 0.6 | < 1.8 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.6 | < 0.2 | < 0.4 | < 0.2 | < 0.6 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.6 | < 0.2 | < 0.4 | < 0.2 | < 0.6 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | ... |
| Hexaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |

| Sample Name: | G0820-01H | | G0820-02H | | G0820-03H | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08749-20 | | E07-08749-21 | | E07-08749-22 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acetaldehyde | 0.12 | 0.35 | 0.15 | 0.31 | < 0.1 | < 0.2 | 0.1 |
| Acetone | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acrolein | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Benzaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.8 | < 0.6 | < 1.3 | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.6 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.6 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.3 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |



Lawhon & Associates, Inc. Job Number: E07-08749
Jobsite: Countywide
Project: #07-0082

Analysis: Aldehydes and Ketones, EPA Method TO-11a

| Sample Name: | W0820-01H | | W0820-02H | | W0820-03H | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08749-23 | | E07-08749-24 | | E07-08749-25 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | < 0.1 | < 0.2 | 0.10 | 0.21 | < 0.1 | < 0.2 | 0.1 |
| Acetaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.12 | 0.27 | 0.1 |
| Acetone | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Acrolein | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.3 | < 0.6 | < 1.2 | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | C0820-01H | | C0820-02H | | C0820-03H | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E07-08749-26 | | E07-08749-27 | | E07-08749-28 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.15 | 0.33 | 0.13 | 0.28 | < 0.1 | < 0.3 | 0.1 |
| Acetaldehyde | 0.13 | 0.28 | 0.11 | 0.24 | < 0.1 | < 0.3 | 0.1 |
| Acetone | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acrolein | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.3 | < 0.6 | < 1.3 | < 0.6 | < 1.5 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.5 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.4 | < 0.2 | < 0.4 | < 0.2 | < 0.5 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |

*Denotes breakthrough from front to back of sorbent tube for Acetaldehyde.

Notes: Calculations of concentrations in air are based upon air sampling data reported by client.
Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: D. Mitchell

## Summary of Results

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Report Date: 9/6/07
Job Number: E07-08749
Date Received: 8/22/07
Date Analyzed: 9/5/07

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

| | | Hydrogen Fluoride | | Hydrogen Chloride | |
|---|---|---|---|---|---|
| Sample ID | IAL ID | ug | ug/m3 | ug | ug/m3 |
| S0820-01H | E07-08749-05 | < 0.6 | < 2.0 | < 0.4 | < 1.2 |
| S0820-02H* | E07-08749-06 | 1.6 | 3.2 | 3.9 | 8.1 |
| S0820-03H* | E07-08749-07 | < 0.6 | < 1.9 | 2.6 | 7.7 |
| G0820-01H | E07-08749-08 | < 0.6 | < 1.9 | < 0.4 | < 1.2 |
| G0820-02H | E07-08749-09 | < 0.6 | < 1.3 | 0.82 | 1.7 |
| G0820-03H* | E07-08749-10 | < 0.6 | < 1.4 | 0.62 | 1.3 |
| W0820-01H | E07-08749-11 | < 0.6 | < 1.4 | 0.57 | 1.2 |
| W0820-02H* | E07-08749-12 | 1.2 | 2.4 | 9.8 | 20 |
| W0820-03H* | E07-08749-13 | < 0.6 | < 1.4 | 2.1 | 4.5 |
| C0820-01H | E07-08749-14 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| C0820-02H* | E07-08749-15 | < 0.6 | < 1.3 | 1.2 | 2.6 |
| C0820-03H | E07-08749-16 | < 0.6 | < 1.6 | < 0.4 | < 1.0 |
| Reporting Limit | | 0.6 | | 0.4 | |

* Denotes breakthrough from the front to the back of the sorbent tube for chloride.

Note: Calculations of concentrations in air are based upon air sampling data reported by client.
Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: D. Mitchell