

**SOIL SAMPLE RESULTS:****SDG 303978**

B-1-03  
B-2-04  
B-3-06  
B-4-06  
GP-12(II)-04  
GP-7(II)-03  
B-6-04  
B-5-04.5  
**SDG 304173**  
B-6-23  
GP-7(II)-19  
GP-7(II)-19-Dup

**SDG 304253**

B-2-41  
B-1-27  
**SDG 304421**  
B-3-33  
B-5-27  
**SDG 304536**  
GP-12(II)-17  
GP-12(II)-17-Dup  
B-4-35

**SOIL VAPOR SAMPLE RESULTS:****SDG 0806072**

GP-12-A-060308  
GP-12-B-060308  
GP-12-C-060308  
GP-12-D-060308  
GP-11-A-060308  
GP-11-B-060308  
GP-11-B-060308-DUP  
GP-11-C-060308  
GP-11-D-060308

**SDG 0806099**

GP-13-A-060408  
GP-13-B-060408  
GP-13-C-060408  
GP-13-D-060408  
GP-9-A-060408  
GP-9-B-060408  
GP-9-C-060408  
GP-9-C-060408-DUP  
GP-9-D-060408

**GROUNDWATER SAMPLE RESULTS:****SDG 305672**

P58-060908  
P58-060908D  
P56-060908  
P73-061008  
P75-061008  
P66-061008  
P54-061008  
P57-061108

**SDG 305871**

B1-061208  
B2-061208  
B2-061208D  
B3-061208  
B4-061208  
B5-061308  
B6-061308  
**SDG 308728**  
P54072508

# Rand Avenue Data Review

Laboratory SDG: 0806072A

Reviewer: Tony Sedlacek

Date Reviewed: 7/22/2008

Guidance: National Functional Guidelines for Organic Data Review 1999.

Applicable Work Plan: Route 111/Rand Avenue Vicinity Investigation Work Plan.

| Sample Identification # | Sample Identification # |
|-------------------------|-------------------------|
| GP-12-A-060308          | GP-12-B-060308          |
| GP-12-C-060308          | GP-12-D-060308          |
| GP-11-A-060308          | GP-11-B-060308          |
| GP-11-B-060308-DUP      | GP-11-C-060308          |
| GP-11-D-060308          |                         |

## 1.0 Data Package Completeness

*Were all items delivered as specified in the QAPP and COC?*

Yes

## 2.0 Laboratory Case Narrative \ Cooler Receipt Form

*Were problems noted in the laboratory case narrative or cooler receipt form?*

No, although not indicated in the laboratory case narrative, ethanol and 2-propanol results in several samples exceeded the calibration range of the instrument; therefore, professional judgment was used to qualify 2-propanol in these samples. Also, LCS recoveries were outside evaluation criteria. This issue is addressed further in the appropriate section below.

The cooler receipt form did not indicate any problems.

## 3.0 Holding Times

*Were samples extracted/analyzed within QAPP limits?*

Yes

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

#### 4.0 Blank Contamination

*Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?*

No

| Blank ID | Parameter | Analyte | Concentration | Units |
|----------|-----------|---------|---------------|-------|
| N/A      |           |         |               |       |

Qualifications due to blank contamination are included in the table below.

| Field ID | Parameter | Analyte | New RL | Qualification |
|----------|-----------|---------|--------|---------------|
| N/A      |           |         |        |               |

#### 5.0 Laboratory Control Sample

*Were LCS recoveries within evaluation criteria?*

No

| LCS ID       | Parameter | Analyte             | LCS Recovery | RPD | LCS Criteria |
|--------------|-----------|---------------------|--------------|-----|--------------|
| 0806072A-12A | TO-15     | Chloromethane       | 134          | N/A | 70-130       |
| 0806072A-12A | TO-15     | Hexachlorobutadiene | 68           | N/A | 70-130       |

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

| Field ID           | Parameter | Analyte             | Qualification |
|--------------------|-----------|---------------------|---------------|
| GP-12-A-060308     | TO-15     | Hexachlorobutadiene | UJ            |
| GP-12-B-060308     | TO-15     | Hexachlorobutadiene | UJ            |
| GP-12-C-060308     | TO-15     | Hexachlorobutadiene | UJ            |
| GP-12-D-060308     | TO-15     | Hexachlorobutadiene | UJ            |
| GP-11-A-060308     | TO-15     | Hexachlorobutadiene | UJ            |
| GP-11-B-060308     | TO-15     | Hexachlorobutadiene | UJ            |
| GP-11-B-060308-DUP | TO-15     | Hexachlorobutadiene | UJ            |
| GP-11-C-060308     | TO-15     | Hexachlorobutadiene | UJ            |
| GP-11-D-060308     | TO-15     | Hexachlorobutadiene | UJ            |

## 6.0 Surrogate Recoveries

*Were surrogate recoveries within evaluation criteria?*

Yes

| Field ID | Parameter | Surrogate | Recovery | Criteria |
|----------|-----------|-----------|----------|----------|
| N/A      |           |           |          |          |

Analytical data that required qualification based on surrogate data are included in the table below.

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

## 7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

*Were MS/MSD samples reported as part of this SDG?*

MS/MSD samples are not applicable for air samples.

*Were MS/MSD recoveries within evaluation criteria?*

N/A

| MS/MSD ID | Parameter | Analyte | MS/MSD Recovery | RPD | MS/MSD/RPD Criteria |
|-----------|-----------|---------|-----------------|-----|---------------------|
| N/A       |           |         |                 |     |                     |

Analytical data that required qualification based on MS/MSD data are included in the table below.

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

## 8.0 Laboratory Duplicate Results

*Were laboratory duplicate samples collected as part of this SDG?*

Yes, sample GP-11-B-060308-DUP was duplicated by the laboratory and analyzed for TO-15.

*Were laboratory duplicate sample RPDs within criteria?*

Yes

| Field ID | Parameter | Analyte | RPD | Criteria |
|----------|-----------|---------|-----|----------|
| N/A      |           |         |     |          |

Data qualified due to outlying laboratory duplicate recoveries are identified below:

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

## 9.0 Field Duplicate Results

*Were field duplicate samples collected as part of this SDG?*

Yes

| Field ID       | Field Duplicate ID |
|----------------|--------------------|
| GP-11-B-060308 | GP-11-B-060308-DUP |

*Were field duplicates within evaluation criteria?*

Yes

| Field ID | Field Duplicate ID | Parameter | Analyte | RPD | Qualification |
|----------|--------------------|-----------|---------|-----|---------------|
| N/A      |                    |           |         |     |               |

## 10.0 Sample Dilutions

*For samples that were diluted and nondetect, were undiluted results also reported?*

Yes

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run *was not* reported:

| Field ID | Parameter | Dilution Factor |
|----------|-----------|-----------------|
| N/A      |           |                 |

## 11.0 Additional Qualifications

*Were additional qualifications applied?*

Yes

Professional judgment was used to qualify ethanol and 2-propanol in several samples listed in the table below. Ethanol and 2-Propanol exceeded the calibration range of the instrument in these samples. The ethanol and 2-propanol results will be reported as > 200 in both samples.

| Field ID           | Analyte    | Qualification | Comments              |
|--------------------|------------|---------------|-----------------------|
| GP-11-A-060308     | Ethanol    | J             | Professional Judgment |
| GP-11-A-060308     | 2-Propanol | J             | Professional Judgment |
| GP-11-B-060308-DUP | 2-Propanol | J             | Professional Judgment |
| GP-11-C-060308     | 2-Propanol | J             | Professional Judgment |
| GP-11-D-060308     | 2-Propanol | J             | Professional Judgment |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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Hours 8:00 A.M to 6:00 P.M. Pacific



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0806072A**

Work Order Summary

**CLIENT:** Mr. Mike Miller **BILL TO:** Accounts Payable OSP 2660 A  
 URS Corporation Equiva Services/Shell Oil Products  
 1001 Highlands Plaza Dr. West P.O. Box 4912  
 Suite 300 Houston, TX 77210-4720  
 St. Louis, MO 63110

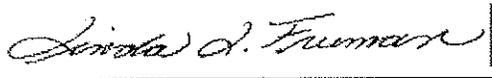
**PHONE:** 314-566-3073 **P.O. #** 4700002383

**FAX:** **PROJECT #** 21561979 Rte 111 & Rand Ave Vicinity

**DATE RECEIVED:** 06/04/2008 **CONTACT:** Brandon Dunmore

**DATE COMPLETED:** 06/17/2008

| <u>FRACTION #</u> | <u>NAME</u>                      | <u>TEST</u>    | <u>RECEIPT<br/>VAC./PRES.</u> | <u>FINAL<br/>PRESSURE</u> |
|-------------------|----------------------------------|----------------|-------------------------------|---------------------------|
| 01A               | GP-12-A-060308                   | Modified TO-15 | 9.5 "Hg                       | 15 psi                    |
| 02A               | GP-12-B-060308                   | Modified TO-15 | 8.0 "Hg                       | 15 psi                    |
| 03A               | GP-12-C-060308                   | Modified TO-15 | 8.5 "Hg                       | 15 psi                    |
| 04A               | GP-12-D-060308                   | Modified TO-15 | 7.5 "Hg                       | 15 psi                    |
| 05A               | GP-11-A-060308                   | Modified TO-15 | 8.5 "Hg                       | 15 psi                    |
| 06A               | GP-11-B-060308                   | Modified TO-15 | 10.0 "Hg                      | 15 psi                    |
| 07A               | GP-11-B-060308-DUP               | Modified TO-15 | 8.0 "Hg                       | 15 psi                    |
| 07AA              | GP-11-B-060308-DUP Lab Duplicate | Modified TO-15 | 8.0 "Hg                       | 15 psi                    |
| 08A               | GP-11-C-060308                   | Modified TO-15 | 8.5 "Hg                       | 15 psi                    |
| 09A               | GP-11-D-060308                   | Modified TO-15 | 10.0 "Hg                      | 15 psi                    |
| 10A               | Lab Blank                        | Modified TO-15 | NA                            | NA                        |
| 10B               | Lab Blank                        | Modified TO-15 | NA                            | NA                        |
| 11A               | CCV                              | Modified TO-15 | NA                            | NA                        |
| 11B               | CCV                              | Modified TO-15 | NA                            | NA                        |
| 12A               | LCS                              | Modified TO-15 | NA                            | NA                        |
| 12B               | LCS                              | Modified TO-15 | NA                            | NA                        |

CERTIFIED BY:   
 Laboratory Director

DATE: 06/17/08

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
 NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
 Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE**  
**Modified TO-15**  
**URS Corporation**  
**Workorder# 0806072A**

Nine 1 Liter Summa Canister samples were received on June 04, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

| <i>Requirement</i>      | <i>TO-15</i>               | <i>ATL Modifications</i>  |
|-------------------------|----------------------------|---|
| Daily CCV               | +/- 30% Difference         | <= 30% Difference with two allowed out up to <=40%.; flag and narrate outliers  |
| Sample collection media | Summa canister             | ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request  |
| Method Detection Limit  | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

**Definition of Data Qualifying Flags**

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-12-A-060308

Lab ID#: 0806072A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 7061515 | Date of Collection: | 6/3/08           |
| Dil. Factor: | 2.96    | Date of Analysis:   | 6/15/08 07:46 PM |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| Freon 12                         | 1.5               | Not Detected  | 7.3                | Not Detected   |
| Freon 114                        | 1.5               | Not Detected  | 10                 | Not Detected   |
| Chloromethane                    | 5.9               | Not Detected  | 12                 | Not Detected   |
| Vinyl Chloride                   | 1.5               | Not Detected  | 3.8                | Not Detected   |
| 1,3-Butadiene                    | 1.5               | Not Detected  | 3.3                | Not Detected   |
| Bromomethane                     | 1.5               | Not Detected  | 5.7                | Not Detected   |
| Chloroethane                     | 1.5               | Not Detected  | 3.9                | Not Detected   |
| Freon 11                         | 1.5               | Not Detected  | 8.3                | Not Detected   |
| Ethanol                          | 5.9               | 37            | 11                 | 70             |
| Freon 113                        | 1.5               | Not Detected  | 11                 | Not Detected   |
| 1,1-Dichloroethene               | 1.5               | Not Detected  | 5.9                | Not Detected   |
| Acetone                          | 5.9               | 32            | 14                 | 75             |
| 2-Propanol                       | 5.9               | 10            | 14                 | 26             |
| Carbon Disulfide                 | 1.5               | Not Detected  | 4.6                | Not Detected   |
| 3-Chloropropene                  | 5.9               | Not Detected  | 18                 | Not Detected   |
| Methylene Chloride               | 1.5               | Not Detected  | 5.1                | Not Detected   |
| Methyl tert-butyl ether          | 1.5               | Not Detected  | 5.3                | Not Detected   |
| trans-1,2-Dichloroethene         | 1.5               | Not Detected  | 5.9                | Not Detected   |
| Hexane                           | 1.5               | Not Detected  | 5.2                | Not Detected   |
| 1,1-Dichloroethane               | 1.5               | Not Detected  | 6.0                | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 1.5               | 4.0           | 4.4                | 12             |
| cis-1,2-Dichloroethene           | 1.5               | 1.5           | 5.9                | 6.0            |
| Tetrahydrofuran                  | 1.5               | 7.3           | 4.4                | 21             |
| Chloroform                       | 1.5               | Not Detected  | 7.2                | Not Detected   |
| 1,1,1-Trichloroethane            | 1.5               | Not Detected  | 8.1                | Not Detected   |
| Cyclohexane                      | 1.5               | Not Detected  | 5.1                | Not Detected   |
| Carbon Tetrachloride             | 1.5               | Not Detected  | 9.3                | Not Detected   |
| 2,2,4-Trimethylpentane           | 1.5               | Not Detected  | 6.9                | Not Detected   |
| Benzene                          | 1.5               | Not Detected  | 4.7                | Not Detected   |
| 1,2-Dichloroethane               | 1.5               | Not Detected  | 6.0                | Not Detected   |
| Heptane                          | 1.5               | Not Detected  | 6.1                | Not Detected   |
| Trichloroethene                  | 1.5               | 16            | 8.0                | 84             |
| 1,2-Dichloropropane              | 1.5               | Not Detected  | 6.8                | Not Detected   |
| 1,4-Dioxane                      | 5.9               | Not Detected  | 21                 | Not Detected   |
| Bromodichloromethane             | 1.5               | Not Detected  | 9.9                | Not Detected   |
| cis-1,3-Dichloropropene          | 1.5               | Not Detected  | 6.7                | Not Detected   |
| 4-Methyl-2-pentanone             | 1.5               | Not Detected  | 6.1                | Not Detected   |
| Toluene                          | 1.5               | 2.5           | 5.6                | 9.4            |
| trans-1,3-Dichloropropene        | 1.5               | Not Detected  | 6.7                | Not Detected   |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-12-A-060308

Lab ID#: 0806072A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|             |         |                    |                  |
|-------------|---------|--------------------|------------------|
| File Name   | 7061515 | Date of Collection | 6/3/08           |
| Bill Factor | 2.96    | Date of Analysis   | 6/15/08 07:46 PM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv)   | Rpt. Limit (uG/m3) | Amount (uG/m3)   |
|---------------------------|-------------------|-----------------|--------------------|------------------|
| 1,1,2-Trichloroethane     | 1.5               | Not Detected    | 8.1                | Not Detected     |
| Tetrachloroethene         | 1.5               | Not Detected    | 10                 | Not Detected     |
| 2-Hexanone                | 5.9               | Not Detected    | 24                 | Not Detected     |
| Dibromochloromethane      | 1.5               | Not Detected    | 13                 | Not Detected     |
| 1,2-Dibromoethane (EDB)   | 1.5               | Not Detected    | 11                 | Not Detected     |
| Chlorobenzene             | 1.5               | Not Detected    | 6.8                | Not Detected     |
| Ethyl Benzene             | 1.5               | Not Detected    | 6.4                | Not Detected     |
| m,p-Xylene                | 1.5               | 1.8             | 6.4                | 8.0              |
| o-Xylene                  | 1.5               | Not Detected    | 6.4                | Not Detected     |
| Styrene                   | 1.5               | Not Detected    | 6.3                | Not Detected     |
| Bromoform                 | 1.5               | Not Detected    | 15                 | Not Detected     |
| Cumene                    | 1.5               | Not Detected    | 7.3                | Not Detected     |
| 1,1,2,2-Tetrachloroethane | 1.5               | Not Detected    | 10                 | Not Detected     |
| Propylbenzene             | 1.5               | Not Detected    | 7.3                | Not Detected     |
| 4-Ethyltoluene            | 1.5               | Not Detected    | 7.3                | Not Detected     |
| 1,3,5-Trimethylbenzene    | 1.5               | Not Detected    | 7.3                | Not Detected     |
| 1,2,4-Trimethylbenzene    | 1.5               | Not Detected    | 7.3                | Not Detected     |
| 1,3-Dichlorobenzene       | 1.5               | Not Detected    | 8.9                | Not Detected     |
| 1,4-Dichlorobenzene       | 1.5               | Not Detected    | 8.9                | Not Detected     |
| alpha-Chlorotoluene       | 1.5               | Not Detected    | 7.7                | Not Detected     |
| 1,2-Dichlorobenzene       | 1.5               | Not Detected    | 8.9                | Not Detected     |
| 1,2,4-Trichlorobenzene    | 5.9               | Not Detected    | 44                 | Not Detected     |
| Hexachlorobutadiene       | 5.9               | Not Detected UJ | 63                 | Not Detected U J |

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

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 89        | 70-130        |
| 1,2-Dichloroethane-d4 | 116       | 70-130        |
| 4-Bromofluorobenzene  | 108       | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-12-B-060308

Lab ID#: 0806072A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 7061516 | Date of Collection: | 6/3/08           |
| Dil. Factor: | 2.76    | Date of Analysis:   | 6/15/08 08:25 PM |

| Compound                         | Rot. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| Freon 12                         | 1.4               | Not Detected  | 6.8                | Not Detected   |
| Freon 114                        | 1.4               | Not Detected  | 9.6                | Not Detected   |
| Chloromethane                    | 5.5               | Not Detected  | 11                 | Not Detected   |
| Vinyl Chloride                   | 1.4               | Not Detected  | 3.5                | Not Detected   |
| 1,3-Butadiene                    | 1.4               | Not Detected  | 3.0                | Not Detected   |
| Bromomethane                     | 1.4               | Not Detected  | 5.4                | Not Detected   |
| Chloroethane                     | 1.4               | Not Detected  | 3.6                | Not Detected   |
| Freon 11                         | 1.4               | Not Detected  | 7.8                | Not Detected   |
| Ethanol                          | 5.5               | 57            | 10                 | 110            |
| Freon 113                        | 1.4               | Not Detected  | 10                 | Not Detected   |
| 1,1-Dichloroethene               | 1.4               | Not Detected  | 5.5                | Not Detected   |
| Acetone                          | 5.5               | 43            | 13                 | 100            |
| 2-Propanol                       | 5.5               | 14            | 14                 | 34             |
| Carbon Disulfide                 | 1.4               | Not Detected  | 4.3                | Not Detected   |
| 3-Chloropropene                  | 5.5               | Not Detected  | 17                 | Not Detected   |
| Methylene Chloride               | 1.4               | Not Detected  | 4.8                | Not Detected   |
| Methyl tert-butyl ether          | 1.4               | Not Detected  | 5.0                | Not Detected   |
| trans-1,2-Dichloroethene         | 1.4               | Not Detected  | 5.5                | Not Detected   |
| Hexane                           | 1.4               | Not Detected  | 4.9                | Not Detected   |
| 1,1-Dichloroethane               | 1.4               | Not Detected  | 5.6                | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 1.4               | 5.8           | 4.1                | 17             |
| cis-1,2-Dichloroethene           | 1.4               | Not Detected  | 5.5                | Not Detected   |
| Tetrahydrofuran                  | 1.4               | 8.0           | 4.1                | 23             |
| Chloroform                       | 1.4               | Not Detected  | 6.7                | Not Detected   |
| 1,1,1-Trichloroethane            | 1.4               | Not Detected  | 7.5                | Not Detected   |
| Cyclohexane                      | 1.4               | Not Detected  | 4.8                | Not Detected   |
| Carbon Tetrachloride             | 1.4               | Not Detected  | 8.7                | Not Detected   |
| 2,2,4-Trimethylpentane           | 1.4               | Not Detected  | 6.4                | Not Detected   |
| Benzene                          | 1.4               | 1.4           | 4.4                | 4.4            |
| 1,2-Dichloroethane               | 1.4               | Not Detected  | 5.6                | Not Detected   |
| Heptane                          | 1.4               | Not Detected  | 5.6                | Not Detected   |
| Trichloroethene                  | 1.4               | Not Detected  | 7.4                | Not Detected   |
| 1,2-Dichloropropane              | 1.4               | Not Detected  | 6.4                | Not Detected   |
| 1,4-Dioxane                      | 5.5               | Not Detected  | 20                 | Not Detected   |
| Bromodichloromethane             | 1.4               | Not Detected  | 9.2                | Not Detected   |
| cis-1,3-Dichloropropene          | 1.4               | Not Detected  | 6.3                | Not Detected   |
| 4-Methyl-2-pentanone             | 1.4               | Not Detected  | 5.6                | Not Detected   |
| Toluene                          | 1.4               | 2.7           | 5.2                | 10             |
| trans-1,3-Dichloropropene        | 1.4               | Not Detected  | 6.3                | Not Detected   |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-12-B-060308

Lab ID#: 0806072A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|             |         |                     |                  |
|-------------|---------|---------------------|------------------|
| File Name:  | 7061516 | Date of Collection: | 6/3/08           |
| Dil Factor: | 1.276   | Date of Analysis:   | 6/15/08 08:25 PM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv)   | Rpt. Limit (uG/m3) | Amount (uG/m3)   |
|---------------------------|-------------------|-----------------|--------------------|------------------|
| 1,1,2-Trichloroethane     | 1.4               | Not Detected    | 7.5                | Not Detected     |
| Tetrachloroethene         | 1.4               | Not Detected    | 9.4                | Not Detected     |
| 2-Hexanone                | 5.5               | Not Detected    | 23                 | Not Detected     |
| Dibromochloromethane      | 1.4               | Not Detected    | 12                 | Not Detected     |
| 1,2-Dibromoethane (EDB)   | 1.4               | Not Detected    | 11                 | Not Detected     |
| Chlorobenzene             | 1.4               | Not Detected    | 6.4                | Not Detected     |
| Ethyl Benzene             | 1.4               | Not Detected    | 6.0                | Not Detected     |
| m,p-Xylene                | 1.4               | 1.9             | 6.0                | 8.2              |
| o-Xylene                  | 1.4               | Not Detected    | 6.0                | Not Detected     |
| Styrene                   | 1.4               | Not Detected    | 5.9                | Not Detected     |
| Bromoform                 | 1.4               | Not Detected    | 14                 | Not Detected     |
| Cumene                    | 1.4               | Not Detected    | 6.8                | Not Detected     |
| 1,1,1,2-Tetrachloroethane | 1.4               | Not Detected    | 9.5                | Not Detected     |
| Propylbenzene             | 1.4               | Not Detected    | 6.8                | Not Detected     |
| 4-Ethyltoluene            | 1.4               | Not Detected    | 6.8                | Not Detected     |
| 1,3,5-Trimethylbenzene    | 1.4               | Not Detected    | 6.8                | Not Detected     |
| 1,2,4-Trimethylbenzene    | 1.4               | Not Detected    | 6.8                | Not Detected     |
| 1,3-Dichlorobenzene       | 1.4               | Not Detected    | 8.3                | Not Detected     |
| 1,4-Dichlorobenzene       | 1.4               | Not Detected    | 8.3                | Not Detected     |
| alpha-Chlorotoluene       | 1.4               | Not Detected    | 7.1                | Not Detected     |
| 1,2-Dichlorobenzene       | 1.4               | Not Detected    | 8.3                | Not Detected     |
| 1,2,4-Trichlorobenzene    | 5.5               | Not Detected    | 41                 | Not Detected     |
| Hexachlorobutadiene       | 5.5               | Not Detected UJ | 59                 | Not Detected U J |

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

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 88        | 70-130        |
| 1,2-Dichloroethane-d4 | 115       | 70-130        |
| 4-Bromofluorobenzene  | 100       | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-12-C-060308

Lab ID#: 0806072A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|             |         |                     |                  |
|-------------|---------|---------------------|------------------|
| File Name:  | 7061517 | Date of Collection: | 6/3/08           |
| Dil Factor: | 2.82    | Date of Analysis:   | 6/15/08 09:11 PM |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv)       | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|---------------------|--------------------|----------------|
| Freon 12                         | 1.4               | Not Detected        | 7.0                | Not Detected   |
| Freon 114                        | 1.4               | Not Detected        | 9.8                | Not Detected   |
| Chloromethane                    | 5.6               | Not Detected - "uJ" | 12                 | Not Detected   |
| Vinyl Chloride                   | 1.4               | Not Detected        | 3.6                | Not Detected   |
| 1,3-Butadiene                    | 1.4               | Not Detected        | 3.1                | Not Detected   |
| Bromomethane                     | 1.4               | Not Detected        | 5.5                | Not Detected   |
| Chloroethane                     | 1.4               | Not Detected        | 3.7                | Not Detected   |
| Freon 11                         | 1.4               | Not Detected        | 7.9                | Not Detected   |
| Ethanol                          | 5.6               | 54                  | 11                 | 100            |
| Freon 113                        | 1.4               | Not Detected        | 11                 | Not Detected   |
| 1,1-Dichloroethene               | 1.4               | Not Detected        | 5.6                | Not Detected   |
| Acetone                          | 5.6               | 40                  | 13                 | 94             |
| 2-Propanol                       | 5.6               | 12                  | 14                 | 31             |
| Carbon Disulfide                 | 1.4               | Not Detected        | 4.4                | Not Detected   |
| 3-Chloropropene                  | 5.6               | Not Detected        | 18                 | Not Detected   |
| Methylene Chloride               | 1.4               | Not Detected        | 4.9                | Not Detected   |
| Methyl tert-butyl ether          | 1.4               | Not Detected        | 5.1                | Not Detected   |
| trans-1,2-Dichloroethene         | 1.4               | Not Detected        | 5.6                | Not Detected   |
| Hexane                           | 1.4               | 2.1                 | 5.0                | 7.5            |
| 1,1-Dichloroethane               | 1.4               | Not Detected        | 5.7                | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 1.4               | 4.5                 | 4.2                | 13             |
| cis-1,2-Dichloroethene           | 1.4               | Not Detected        | 5.6                | Not Detected   |
| Tetrahydrofuran                  | 1.4               | 7.8                 | 4.2                | 23             |
| Chloroform                       | 1.4               | Not Detected        | 6.9                | Not Detected   |
| 1,1,1-Trichloroethane            | 1.4               | Not Detected        | 7.7                | Not Detected   |
| Cyclohexane                      | 1.4               | Not Detected        | 4.8                | Not Detected   |
| Carbon Tetrachloride             | 1.4               | Not Detected        | 8.9                | Not Detected   |
| 2,2,4-Trimethylpentane           | 1.4               | Not Detected        | 6.6                | Not Detected   |
| Benzene                          | 1.4               | Not Detected        | 4.5                | Not Detected   |
| 1,2-Dichloroethane               | 1.4               | Not Detected        | 5.7                | Not Detected   |
| Heptane                          | 1.4               | 1.7                 | 5.8                | 7.1            |
| Trichloroethene                  | 1.4               | 2.1                 | 7.6                | 11             |
| 1,2-Dichloropropane              | 1.4               | Not Detected        | 6.5                | Not Detected   |
| 1,4-Dioxane                      | 5.6               | Not Detected        | 20                 | Not Detected   |
| Bromodichloromethane             | 1.4               | Not Detected        | 9.4                | Not Detected   |
| cis-1,3-Dichloropropene          | 1.4               | Not Detected        | 6.4                | Not Detected   |
| 4-Methyl-2-pentanone             | 1.4               | Not Detected        | 5.8                | Not Detected   |
| Toluene                          | 1.4               | 2.6                 | 5.3                | 9.6            |
| trans-1,3-Dichloropropene        | 1.4               | Not Detected        | 6.4                | Not Detected   |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-12-C-060308

Lab ID#: 0806072A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|             |         |                     |                  |
|-------------|---------|---------------------|------------------|
| File Name:  | 7061517 | Date of Collection: | 6/3/08           |
| Dil Factor: | 2.00    | Date of Analysis:   | 6/15/08 09:41 PM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv)       | Rpt. Limit (uG/m3) | Amount (uG/m3)   |
|---------------------------|-------------------|---------------------|--------------------|------------------|
| 1,1,2-Trichloroethane     | 1.4               | Not Detected        | 7.7                | Not Detected     |
| Tetrachloroethene         | 1.4               | Not Detected        | 9.6                | Not Detected     |
| 2-Hexanone                | 5.6               | Not Detected        | 23                 | Not Detected     |
| Dibromochloromethane      | 1.4               | Not Detected        | 12                 | Not Detected     |
| 1,2-Dibromoethane (EDB)   | 1.4               | Not Detected        | 11                 | Not Detected     |
| Chlorobenzene             | 1.4               | Not Detected        | 6.5                | Not Detected     |
| Ethyl Benzene             | 1.4               | Not Detected        | 6.1                | Not Detected     |
| m,p-Xylene                | 1.4               | 1.8                 | 6.1                | 8.0              |
| o-Xylene                  | 1.4               | Not Detected        | 6.1                | Not Detected     |
| Styrene                   | 1.4               | Not Detected        | 6.0                | Not Detected     |
| Bromoform                 | 1.4               | Not Detected - "UJ" | 14                 | Not Detected     |
| Cumene                    | 1.4               | Not Detected        | 6.9                | Not Detected     |
| 1,1,1,2-Tetrachloroethane | 1.4               | Not Detected        | 9.7                | Not Detected     |
| Propylbenzene             | 1.4               | Not Detected        | 6.9                | Not Detected     |
| 4-Ethyltoluene            | 1.4               | Not Detected        | 6.9                | Not Detected     |
| 1,3,5-Trimethylbenzene    | 1.4               | Not Detected        | 6.9                | Not Detected     |
| 1,2,4-Trimethylbenzene    | 1.4               | Not Detected        | 6.9                | Not Detected     |
| 1,3-Dichlorobenzene       | 1.4               | Not Detected        | 8.5                | Not Detected     |
| 1,4-Dichlorobenzene       | 1.4               | Not Detected        | 8.5                | Not Detected     |
| alpha-Chlorotoluene       | 1.4               | Not Detected        | 7.3                | Not Detected     |
| 1,2-Dichlorobenzene       | 1.4               | Not Detected        | 8.5                | Not Detected     |
| 1,2,4-Trichlorobenzene    | 5.6               | Not Detected        | 42                 | Not Detected     |
| Hexachlorobutadiene       | 5.6               | Not Detected - "UJ" | 60                 | Not Detected U J |

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

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 88        | 70-130        |
| 1,2-Dichloroethane-d4 | 120       | 70-130        |
| 4-Bromofluorobenzene  | 100       | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-12-D-060308

Lab ID#: 0806072A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|            |         |                    |                  |
|------------|---------|--------------------|------------------|
| File Name  | 7061518 | Date of Collection | 6/3/08           |
| Dil Factor | 2.691   | Date of Analysis   | 6/15/08 10:04 PM |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| Freon 12                         | 1.3               | Not Detected  | 6.6                | Not Detected   |
| Freon 114                        | 1.3               | Not Detected  | 9.4                | Not Detected   |
| Chloromethane                    | 5.4               | Not Detected  | 11                 | Not Detected   |
| Vinyl Chloride                   | 1.3               | Not Detected  | 3.4                | Not Detected   |
| 1,3-Butadiene                    | 1.3               | Not Detected  | 3.0                | Not Detected   |
| Bromomethane                     | 1.3               | Not Detected  | 5.2                | Not Detected   |
| Chloroethane                     | 1.3               | Not Detected  | 3.5                | Not Detected   |
| Freon 11                         | 1.3               | Not Detected  | 7.6                | Not Detected   |
| Ethanol                          | 5.4               | 49            | 10                 | 93             |
| Freon 113                        | 1.3               | Not Detected  | 10                 | Not Detected   |
| 1,1-Dichloroethene               | 1.3               | Not Detected  | 5.3                | Not Detected   |
| Acetone                          | 5.4               | 54            | 13                 | 130            |
| 2-Propanol                       | 5.4               | 12            | 13                 | 29             |
| Carbon Disulfide                 | 1.3               | Not Detected  | 4.2                | Not Detected   |
| 3-Chloropropene                  | 5.4               | Not Detected  | 17                 | Not Detected   |
| Methylene Chloride               | 1.3               | Not Detected  | 4.7                | Not Detected   |
| Methyl tert-butyl ether          | 1.3               | Not Detected  | 4.8                | Not Detected   |
| trans-1,2-Dichloroethene         | 1.3               | Not Detected  | 5.3                | Not Detected   |
| Hexane                           | 1.3               | 3.5           | 4.7                | 12             |
| 1,1-Dichloroethane               | 1.3               | Not Detected  | 5.4                | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 1.3               | 12            | 4.0                | 34             |
| cis-1,2-Dichloroethene           | 1.3               | Not Detected  | 5.3                | Not Detected   |
| Tetrahydrofuran                  | 1.3               | 7.9           | 4.0                | 23             |
| Chloroform                       | 1.3               | Not Detected  | 6.6                | Not Detected   |
| 1,1,1-Trichloroethane            | 1.3               | Not Detected  | 7.3                | Not Detected   |
| Cyclohexane                      | 1.3               | 27            | 4.6                | 93             |
| Carbon Tetrachloride             | 1.3               | Not Detected  | 8.5                | Not Detected   |
| 2,2,4-Trimethylpentane           | 1.3               | Not Detected  | 6.3                | Not Detected   |
| Benzene                          | 1.3               | 37            | 4.3                | 120            |
| 1,2-Dichloroethane               | 1.3               | Not Detected  | 5.4                | Not Detected   |
| Heptane                          | 1.3               | Not Detected  | 5.5                | Not Detected   |
| Trichloroethene                  | 1.3               | Not Detected  | 7.2                | Not Detected   |
| 1,2-Dichloropropane              | 1.3               | Not Detected  | 6.2                | Not Detected   |
| 1,4-Dioxane                      | 5.4               | Not Detected  | 19                 | Not Detected   |
| Bromodichloromethane             | 1.3               | Not Detected  | 9.0                | Not Detected   |
| cis-1,3-Dichloropropene          | 1.3               | Not Detected  | 6.1                | Not Detected   |
| 4-Methyl-2-pentanone             | 1.3               | Not Detected  | 5.5                | Not Detected   |
| Toluene                          | 1.3               | 2.6           | 5.1                | 9.8            |
| trans-1,3-Dichloropropene        | 1.3               | Not Detected  | 6.1                | Not Detected   |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-12-D-060308

Lab ID#: 0806072A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|             |         |                     |                  |
|-------------|---------|---------------------|------------------|
| File Name:  | 7061518 | Date of collection: | 6/3/08           |
| Dil factor: | 2.69    | Date of Analysis:   | 6/15/08 10:04 PM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3)   |
|---------------------------|-------------------|---------------|--------------------|------------------|
| 1,1,2-Trichloroethane     | 1.3               | Not Detected  | 7.3                | Not Detected     |
| Tetrachloroethene         | 1.3               | Not Detected  | 9.1                | Not Detected     |
| 2-Hexanone                | 5.4               | Not Detected  | 22                 | Not Detected     |
| Dibromochloromethane      | 1.3               | Not Detected  | 11                 | Not Detected     |
| 1,2-Dibromoethane (EDB)   | 1.3               | Not Detected  | 10                 | Not Detected     |
| Chlorobenzene             | 1.3               | Not Detected  | 6.2                | Not Detected     |
| Ethyl Benzene             | 1.3               | Not Detected  | 5.8                | Not Detected     |
| m,p-Xylene                | 1.3               | 2.0           | 5.8                | 8.9              |
| o-Xylene                  | 1.3               | Not Detected  | 5.8                | Not Detected     |
| Styrene                   | 1.3               | Not Detected  | 5.7                | Not Detected     |
| Bromoform                 | 1.3               | Not Detected  | 14                 | Not Detected     |
| Cumene                    | 1.3               | Not Detected  | 6.6                | Not Detected     |
| 1,1,2,2-Tetrachloroethane | 1.3               | Not Detected  | 9.2                | Not Detected     |
| Propylbenzene             | 1.3               | Not Detected  | 6.6                | Not Detected     |
| 4-Ethyltoluene            | 1.3               | Not Detected  | 6.6                | Not Detected     |
| 1,3,5-Trimethylbenzene    | 1.3               | Not Detected  | 6.6                | Not Detected     |
| 1,2,4-Trimethylbenzene    | 1.3               | Not Detected  | 6.6                | Not Detected     |
| 1,3-Dichlorobenzene       | 1.3               | Not Detected  | 8.1                | Not Detected     |
| 1,4-Dichlorobenzene       | 1.3               | Not Detected  | 8.1                | Not Detected     |
| alpha-Chlorotoluene       | 1.3               | Not Detected  | 7.0                | Not Detected     |
| 1,2-Dichlorobenzene       | 1.3               | Not Detected  | 8.1                | Not Detected     |
| 1,2,4-Trichlorobenzene    | 5.4               | Not Detected  | 40                 | Not Detected     |
| Hexachlorobutadiene       | 5.4               | Not Detected  | 57                 | Not Detected U J |

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

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 90        | 70-130        |
| 1,2-Dichloroethane-d4 | 113       | 70-130        |
| 4-Bromofluorobenzene  | 97        | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-A-060308

Lab ID#: 0806072A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|             |         |                     |                  |
|-------------|---------|---------------------|------------------|
| File Name:  | 7061612 | Date of Collection: | 6/5/08           |
| ID# Factor: | 22.0    | Date of Analysis:   | 6/16/08 05:22 PM |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv)     | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|-------------------|--------------------|----------------|
| Freon 12                         | 11                | Not Detected      | 56                 | Not Detected   |
| Freon 114                        | 11                | Not Detected      | 79                 | Not Detected   |
| Chloromethane                    | 45                | Not Detected      | 93                 | Not Detected   |
| Vinyl Chloride                   | 11                | Not Detected      | 29                 | Not Detected   |
| 1,3-Butadiene                    | 11                | Not Detected      | 25                 | Not Detected   |
| Bromomethane                     | 11                | Not Detected      | 44                 | Not Detected   |
| Chloroethane                     | 11                | Not Detected      | 30                 | Not Detected   |
| Freon 11                         | 11                | Not Detected      | 63                 | Not Detected   |
| Ethanol                          | 45                | > 200 7600 E "J"  | 85                 | 15000 E        |
| Freon 113                        | 11                | Not Detected      | 87                 | Not Detected   |
| 1,1-Dichloroethene               | 11                | Not Detected      | 45                 | Not Detected   |
| Acetone                          | 45                | 130               | 110                | 310            |
| 2-Propanol                       | 45                | > 200 24000 E "J" | 110                | 51000 E        |
| Carbon Disulfide                 | 11                | Not Detected      | 35                 | Not Detected   |
| 3-Chloropropene                  | 45                | Not Detected      | 140                | Not Detected   |
| Methylene Chloride               | 11                | Not Detected      | 39                 | Not Detected   |
| Methyl tert-butyl ether          | 11                | Not Detected      | 41                 | Not Detected   |
| trans-1,2-Dichloroethene         | 11                | Not Detected      | 45                 | Not Detected   |
| Hexane                           | 11                | Not Detected      | 40                 | Not Detected   |
| 1,1-Dichloroethane               | 11                | Not Detected      | 46                 | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 11                | Not Detected      | 33                 | Not Detected   |
| cis-1,2-Dichloroethene           | 11                | Not Detected      | 45                 | Not Detected   |
| Tetrahydrofuran                  | 11                | Not Detected      | 33                 | Not Detected   |
| Chloroform                       | 11                | Not Detected      | 55                 | Not Detected   |
| 1,1,1-Trichloroethane            | 11                | Not Detected      | 62                 | Not Detected   |
| Cyclohexane                      | 11                | Not Detected      | 39                 | Not Detected   |
| Carbon Tetrachloride             | 11                | Not Detected      | 71                 | Not Detected   |
| 2,2,4-Trimethylpentane           | 11                | Not Detected      | 53                 | Not Detected   |
| Benzene                          | 11                | Not Detected      | 36                 | Not Detected   |
| 1,2-Dichloroethane               | 11                | Not Detected      | 46                 | Not Detected   |
| Heptane                          | 11                | Not Detected      | 46                 | Not Detected   |
| Trichloroethene                  | 11                | Not Detected      | 61                 | Not Detected   |
| 1,2-Dichloropropane              | 11                | Not Detected      | 52                 | Not Detected   |
| 1,4-Dioxane                      | 45                | Not Detected      | 160                | Not Detected   |
| Bromodichloromethane             | 11                | Not Detected      | 76                 | Not Detected   |
| cis-1,3-Dichloropropene          | 11                | Not Detected      | 51                 | Not Detected   |
| 4-Methyl-2-pentanone             | 11                | Not Detected      | 46                 | Not Detected   |
| Toluene                          | 11                | 24                | 42                 | 92             |
| trans-1,3-Dichloropropene        | 11                | Not Detected      | 51                 | Not Detected   |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-A-060308

Lab ID#: 0806072A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 7061812 | Date of Collection: | 6/3/08           |
| File Factor: | 22.0    | Date of Analysis:   | 6/16/08 05:22 PM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---------------------------|-------------------|---------------|--------------------|----------------|
| 1,1,2-Trichloroethane     | 11                | Not Detected  | 62                 | Not Detected   |
| Tetrachloroethene         | 11                | Not Detected  | 77                 | Not Detected   |
| 2-Hexanone                | 45                | Not Detected  | 180                | Not Detected   |
| Dibromochloromethane      | 11                | Not Detected  | 96                 | Not Detected   |
| 1,2-Dibromoethane (EDB)   | 11                | Not Detected  | 87                 | Not Detected   |
| Chlorobenzene             | 11                | Not Detected  | 52                 | Not Detected   |
| Ethyl Benzene             | 11                | Not Detected  | 49                 | Not Detected   |
| m,p-Xylene                | 11                | Not Detected  | 49                 | Not Detected   |
| o-Xylene                  | 11                | Not Detected  | 49                 | Not Detected   |
| Styrene                   | 11                | Not Detected  | 48                 | Not Detected   |
| Bromoform                 | 11                | Not Detected  | 120                | Not Detected   |
| Cumene                    | 11                | Not Detected  | 56                 | Not Detected   |
| 1,1,1,2-Tetrachloroethane | 11                | Not Detected  | 78                 | Not Detected   |
| Propylbenzene             | 11                | Not Detected  | 56                 | Not Detected   |
| 4-Ethyltoluene            | 11                | Not Detected  | 56                 | Not Detected   |
| 1,3,5-Trimethylbenzene    | 11                | Not Detected  | 56                 | Not Detected   |
| 1,2,4-Trimethylbenzene    | 11                | Not Detected  | 56                 | Not Detected   |
| 1,3-Dichlorobenzene       | 11                | 18            | 68                 | 110            |
| 1,4-Dichlorobenzene       | 11                | Not Detected  | 68                 | Not Detected   |
| alpha-Chlorotoluene       | 11                | Not Detected  | 58                 | Not Detected   |
| 1,2-Dichlorobenzene       | 11                | Not Detected  | 68                 | Not Detected   |
| 1,2,4-Trichlorobenzene    | 45                | Not Detected  | 340                | Not Detected   |
| Hexachlorobutadiene       | 45                | Not Detected  | 480                | Not Detected   |

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 89        | 70-130        |
| 1,2-Dichloroethane-d4 | 119       | 70-130        |
| 4-Bromofluorobenzene  | 102       | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-B-060308

Lab ID#: 0806072A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 7061521 | Date of Collection: | 6/3/08           |
| Dil. Factor: | 121     | Date of Analysis:   | 6/16/08 01:09 AM |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| Freon 12                         | 60                | Not Detected  | 300                | Not Detected   |
| Freon 114                        | 60                | Not Detected  | 420                | Not Detected   |
| Chloromethane                    | 240               | Not Detected  | 500                | Not Detected   |
| Vinyl Chloride                   | 60                | Not Detected  | 150                | Not Detected   |
| 1,3-Butadiene                    | 60                | Not Detected  | 130                | Not Detected   |
| Bromomethane                     | 60                | Not Detected  | 230                | Not Detected   |
| Chloroethane                     | 60                | Not Detected  | 160                | Not Detected   |
| Freon 11                         | 60                | Not Detected  | 340                | Not Detected   |
| Ethanol                          | 240               | 1800          | 460                | 3400           |
| Freon 113                        | 60                | Not Detected  | 460                | Not Detected   |
| 1,1-Dichloroethene               | 60                | Not Detected  | 240                | Not Detected   |
| Acetone                          | 240               | Not Detected  | 570                | Not Detected   |
| 2-Propanol                       | 240               | 20000         | 590                | 50000          |
| Carbon Disulfide                 | 60                | Not Detected  | 190                | Not Detected   |
| 3-Chloropropene                  | 240               | Not Detected  | 760                | Not Detected   |
| Methylene Chloride               | 60                | Not Detected  | 210                | Not Detected   |
| Methyl tert-butyl ether          | 60                | Not Detected  | 220                | Not Detected   |
| trans-1,2-Dichloroethene         | 60                | Not Detected  | 240                | Not Detected   |
| Hexane                           | 60                | Not Detected  | 210                | Not Detected   |
| 1,1-Dichloroethane               | 60                | Not Detected  | 240                | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 60                | Not Detected  | 180                | Not Detected   |
| cis-1,2-Dichloroethene           | 60                | Not Detected  | 240                | Not Detected   |
| Tetrahydrofuran                  | 60                | Not Detected  | 180                | Not Detected   |
| Chloroform                       | 60                | Not Detected  | 300                | Not Detected   |
| 1,1,1-Trichloroethane            | 60                | Not Detected  | 330                | Not Detected   |
| Cyclohexane                      | 60                | Not Detected  | 210                | Not Detected   |
| Carbon Tetrachloride             | 60                | Not Detected  | 380                | Not Detected   |
| 2,2,4-Trimethylpentane           | 60                | Not Detected  | 280                | Not Detected   |
| Benzene                          | 60                | Not Detected  | 190                | Not Detected   |
| 1,2-Dichloroethane               | 60                | Not Detected  | 240                | Not Detected   |
| Heptane                          | 60                | Not Detected  | 250                | Not Detected   |
| Trichloroethene                  | 60                | Not Detected  | 320                | Not Detected   |
| 1,2-Dichloropropane              | 60                | Not Detected  | 280                | Not Detected   |
| 1,4-Dioxane                      | 240               | Not Detected  | 870                | Not Detected   |
| Bromodichloromethane             | 60                | Not Detected  | 400                | Not Detected   |
| cis-1,3-Dichloropropene          | 60                | Not Detected  | 270                | Not Detected   |
| 4-Methyl-2-pentanone             | 60                | Not Detected  | 250                | Not Detected   |
| Toluene                          | 60                | Not Detected  | 230                | Not Detected   |
| trans-1,3-Dichloropropene        | 60                | Not Detected  | 270                | Not Detected   |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-B-060308

Lab ID#: 0806072A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|            |         |                    |                  |
|------------|---------|--------------------|------------------|
| File Name  | 7061521 | Date of Collection | 6/3/08           |
| Dil Factor | 121     | Date of Analysis   | 6/16/08 01:09 AM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv)   | Rpt. Limit (uG/m3) | Amount (uG/m3)  |
|---------------------------|-------------------|-----------------|--------------------|-----------------|
| 1,1,2-Trichloroethane     | 60                | Not Detected    | 330                | Not Detected    |
| Tetrachloroethene         | 60                | Not Detected    | 410                | Not Detected    |
| 2-Hexanone                | 240               | Not Detected    | 990                | Not Detected    |
| Dibromochloromethane      | 60                | Not Detected    | 520                | Not Detected    |
| 1,2-Dibromoethane (EDB)   | 60                | Not Detected    | 460                | Not Detected    |
| Chlorobenzene             | 60                | Not Detected    | 280                | Not Detected    |
| Ethyl Benzene             | 60                | Not Detected    | 260                | Not Detected    |
| m,p-Xylene                | 60                | Not Detected    | 260                | Not Detected    |
| o-Xylene                  | 60                | Not Detected    | 260                | Not Detected    |
| Styrene                   | 60                | Not Detected    | 260                | Not Detected    |
| Bromoform                 | 60                | Not Detected    | 620                | Not Detected    |
| Cumene                    | 60                | Not Detected    | 300                | Not Detected    |
| 1,1,2,2-Tetrachloroethane | 60                | Not Detected    | 420                | Not Detected    |
| Propylbenzene             | 60                | Not Detected    | 300                | Not Detected    |
| 4-Ethyltoluene            | 60                | Not Detected    | 300                | Not Detected    |
| 1,3,5-Trimethylbenzene    | 60                | Not Detected    | 300                | Not Detected    |
| 1,2,4-Trimethylbenzene    | 60                | Not Detected    | 300                | Not Detected    |
| 1,3-Dichlorobenzene       | 60                | Not Detected    | 360                | Not Detected    |
| 1,4-Dichlorobenzene       | 60                | Not Detected    | 360                | Not Detected    |
| alpha-Chlorotoluene       | 60                | Not Detected    | 310                | Not Detected    |
| 1,2-Dichlorobenzene       | 60                | Not Detected    | 360                | Not Detected    |
| 1,2,4-Trichlorobenzene    | 240               | Not Detected    | 1800               | Not Detected    |
| Hexachlorobutadiene       | 240               | Not Detected UJ | 2600               | Not Detected UJ |

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

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 87        | 70-130        |
| 1,2-Dichloroethane-d4 | 120       | 70-130        |
| 4-Bromofluorobenzene  | 100       | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-B-060308-DUP

Lab ID#: 0806072A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 7061522 | Date of Collection: | 6/3/08           |
| Dil. Factor: | 22.1    | Date of Analysis:   | 6/16/08 01:57 AM |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| Freon 12                         | 11                | Not Detected  | 55                 | Not Detected   |
| Freon 114                        | 11                | Not Detected  | 77                 | Not Detected   |
| Chloromethane                    | 44                | Not Detected  | 91                 | Not Detected   |
| Vinyl Chloride                   | 11                | Not Detected  | 28                 | Not Detected   |
| 1,3-Butadiene                    | 11                | Not Detected  | 24                 | Not Detected   |
| Bromomethane                     | 11                | Not Detected  | 43                 | Not Detected   |
| Chloroethane                     | 11                | Not Detected  | 29                 | Not Detected   |
| Freon 11                         | 11                | Not Detected  | 62                 | Not Detected   |
| Ethanol                          | 44                | 2500          | 83                 | 4700           |
| Freon 113                        | 11                | Not Detected  | 85                 | Not Detected   |
| 1,1-Dichloroethene               | 11                | Not Detected  | 44                 | Not Detected   |
| Acetone                          | 44                | 83            | 100                | 200            |
| 2-Propanol                       | 44                | > 200         | 110                | 48000 E        |
| Carbon Disulfide                 | 11                | Not Detected  | 34                 | Not Detected   |
| 3-Chloropropene                  | 44                | Not Detected  | 140                | Not Detected   |
| Methylene Chloride               | 11                | Not Detected  | 38                 | Not Detected   |
| Methyl tert-butyl ether          | 11                | Not Detected  | 40                 | Not Detected   |
| trans-1,2-Dichloroethene         | 11                | Not Detected  | 44                 | Not Detected   |
| Hexane                           | 11                | Not Detected  | 39                 | Not Detected   |
| 1,1-Dichloroethane               | 11                | Not Detected  | 45                 | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 11                | Not Detected  | 32                 | Not Detected   |
| cis-1,2-Dichloroethene           | 11                | Not Detected  | 44                 | Not Detected   |
| Tetrahydrofuran                  | 11                | Not Detected  | 32                 | Not Detected   |
| Chloroform                       | 11                | Not Detected  | 54                 | Not Detected   |
| 1,1,1-Trichloroethane            | 11                | Not Detected  | 60                 | Not Detected   |
| Cyclohexane                      | 11                | Not Detected  | 38                 | Not Detected   |
| Carbon Tetrachloride             | 11                | Not Detected  | 70                 | Not Detected   |
| 2,2,4-Trimethylpentane           | 11                | Not Detected  | 52                 | Not Detected   |
| Benzene                          | 11                | Not Detected  | 35                 | Not Detected   |
| 1,2-Dichloroethane               | 11                | Not Detected  | 45                 | Not Detected   |
| Heptane                          | 11                | Not Detected  | 45                 | Not Detected   |
| Trichloroethene                  | 11                | Not Detected  | 59                 | Not Detected   |
| 1,2-Dichloropropane              | 11                | Not Detected  | 51                 | Not Detected   |
| 1,4-Dioxane                      | 44                | Not Detected  | 160                | Not Detected   |
| Bromodichloromethane             | 11                | Not Detected  | 74                 | Not Detected   |
| cis-1,3-Dichloropropene          | 11                | Not Detected  | 50                 | Not Detected   |
| 4-Methyl-2-pentanone             | 11                | Not Detected  | 45                 | Not Detected   |
| Toluene                          | 11                | 13            | 42                 | 50             |
| trans-1,3-Dichloropropene        | 11                | Not Detected  | 50                 | Not Detected   |

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-B-060308-DUP

Lab ID#: 0806072A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|            |         |                    |                  |
|------------|---------|--------------------|------------------|
| File Name  | 7061522 | Date of Collection | 6/9/08           |
| Dil Factor | 1.24    | Date of Analysis   | 6/16/08 01:57 AM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv)   | Rpt. Limit (uG/m3) | Amount (uG/m3)  |
|---------------------------|-------------------|-----------------|--------------------|-----------------|
| 1,1,2-Trichloroethane     | 11                | Not Detected    | 60                 | Not Detected    |
| Tetrachloroethene         | 11                | Not Detected    | 75                 | Not Detected    |
| 2-Hexanone                | 44                | Not Detected    | 180                | Not Detected    |
| Dibromochloromethane      | 11                | Not Detected    | 94                 | Not Detected    |
| 1,2-Dibromoethane (EDB)   | 11                | Not Detected    | 85                 | Not Detected    |
| Chlorobenzene             | 11                | Not Detected    | 51                 | Not Detected    |
| Ethyl Benzene             | 11                | Not Detected    | 48                 | Not Detected    |
| m,p-Xylene                | 11                | Not Detected    | 48                 | Not Detected    |
| o-Xylene                  | 11                | Not Detected    | 48                 | Not Detected    |
| Styrene                   | 11                | Not Detected    | 47                 | Not Detected    |
| Bromoform                 | 11                | Not Detected    | 110                | Not Detected    |
| Cumene                    | 11                | Not Detected    | 54                 | Not Detected    |
| 1,1,2,2-Tetrachloroethane | 11                | Not Detected    | 76                 | Not Detected    |
| Propylbenzene             | 11                | Not Detected    | 54                 | Not Detected    |
| 4-Ethyltoluene            | 11                | Not Detected    | 54                 | Not Detected    |
| 1,3,5-Trimethylbenzene    | 11                | Not Detected    | 54                 | Not Detected    |
| 1,2,4-Trimethylbenzene    | 11                | Not Detected    | 54                 | Not Detected    |
| 1,3-Dichlorobenzene       | 11                | 18              | 66                 | 100             |
| 1,4-Dichlorobenzene       | 11                | Not Detected    | 66                 | Not Detected    |
| alpha-Chlorotoluene       | 11                | Not Detected    | 57                 | Not Detected    |
| 1,2-Dichlorobenzene       | 11                | Not Detected    | 66                 | Not Detected    |
| 1,2,4-Trichlorobenzene    | 44                | Not Detected    | 330                | Not Detected    |
| Hexachlorobutadiene       | 44                | Not Detected UJ | 470                | Not Detected UJ |

E = Exceeds instrument calibration range.

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

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 88        | 70-130        |
| 1,2-Dichloroethane-d4 | 118       | 70-130        |
| 4-Bromofluorobenzene  | 98        | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-B-060308-DUP Lab Duplicate

Lab ID#: 0806072A-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 7061523 | Date of Collection: | 6/3/08           |
| Dil. Factor: | 22.1    | Date of Analysis:   | 6/16/08 02:42 AM |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| Freon 12                         | 11                | Not Detected  | 55                 | Not Detected   |
| Freon 114                        | 11                | Not Detected  | 77                 | Not Detected   |
| Chloromethane                    | 44                | Not Detected  | 91                 | Not Detected   |
| Vinyl Chloride                   | 11                | Not Detected  | 28                 | Not Detected   |
| 1,3-Butadiene                    | 11                | Not Detected  | 24                 | Not Detected   |
| Bromomethane                     | 11                | Not Detected  | 43                 | Not Detected   |
| Chloroethane                     | 11                | Not Detected  | 29                 | Not Detected   |
| Freon 11                         | 11                | Not Detected  | 62                 | Not Detected   |
| Ethanol                          | 44                | 2500          | 83                 | 4800           |
| Freon 113                        | 11                | Not Detected  | 85                 | Not Detected   |
| 1,1-Dichloroethene               | 11                | Not Detected  | 44                 | Not Detected   |
| Acetone                          | 44                | 79            | 100                | 190            |
| 2-Propanol                       | 44                | 20000 E       | 110                | 50000 E        |
| Carbon Disulfide                 | 11                | Not Detected  | 34                 | Not Detected   |
| 3-Chloropropene                  | 44                | Not Detected  | 140                | Not Detected   |
| Methylene Chloride               | 11                | Not Detected  | 38                 | Not Detected   |
| Methyl tert-butyl ether          | 11                | Not Detected  | 40                 | Not Detected   |
| trans-1,2-Dichloroethene         | 11                | Not Detected  | 44                 | Not Detected   |
| Hexane                           | 11                | Not Detected  | 39                 | Not Detected   |
| 1,1-Dichloroethane               | 11                | Not Detected  | 45                 | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 11                | Not Detected  | 32                 | Not Detected   |
| cis-1,2-Dichloroethene           | 11                | Not Detected  | 44                 | Not Detected   |
| Tetrahydrofuran                  | 11                | Not Detected  | 32                 | Not Detected   |
| Chloroform                       | 11                | Not Detected  | 54                 | Not Detected   |
| 1,1,1-Trichloroethane            | 11                | Not Detected  | 60                 | Not Detected   |
| Cyclohexane                      | 11                | Not Detected  | 38                 | Not Detected   |
| Carbon Tetrachloride             | 11                | Not Detected  | 70                 | Not Detected   |
| 2,2,4-Trimethylpentane           | 11                | Not Detected  | 52                 | Not Detected   |
| Benzene                          | 11                | Not Detected  | 35                 | Not Detected   |
| 1,2-Dichloroethane               | 11                | Not Detected  | 45                 | Not Detected   |
| Heptane                          | 11                | Not Detected  | 45                 | Not Detected   |
| Trichloroethene                  | 11                | Not Detected  | 59                 | Not Detected   |
| 1,2-Dichloropropane              | 11                | Not Detected  | 51                 | Not Detected   |
| 1,4-Dioxane                      | 44                | Not Detected  | 160                | Not Detected   |
| Bromodichloromethane             | 11                | Not Detected  | 74                 | Not Detected   |
| cis-1,3-Dichloropropene          | 11                | Not Detected  | 50                 | Not Detected   |
| 4-Methyl-2-pentanone             | 11                | Not Detected  | 45                 | Not Detected   |
| Toluene                          | 11                | 14            | 42                 | 53             |
| trans-1,3-Dichloropropene        | 11                | Not Detected  | 50                 | Not Detected   |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-B-060308-DUP Lab Duplicate

Lab ID#: 0806072A-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 7061523 | Date of Collection: | 6/3/08           |
| Dil. Factor: | 22.1    | Date of Analysis:   | 6/16/08 02:42 AM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv)    | Rpt. Limit (uG/m3) | Amount (uG/m3)   |
|---------------------------|-------------------|------------------|--------------------|------------------|
| 1,1,2-Trichloroethane     | 11                | Not Detected     | 60                 | Not Detected     |
| Tetrachloroethene         | 11                | Not Detected     | 75                 | Not Detected     |
| 2-Hexanone                | 44                | Not Detected     | 180                | Not Detected     |
| Dibromochloromethane      | 11                | Not Detected     | 94                 | Not Detected     |
| 1,2-Dibromoethane (EDB)   | 11                | Not Detected     | 85                 | Not Detected     |
| Chlorobenzene             | 11                | Not Detected     | 51                 | Not Detected     |
| Ethyl Benzene             | 11                | Not Detected     | 48                 | Not Detected     |
| m,p-Xylene                | 11                | Not Detected     | 48                 | Not Detected     |
| o-Xylene                  | 11                | Not Detected     | 48                 | Not Detected     |
| Styrene                   | 11                | Not Detected     | 47                 | Not Detected     |
| Bromoform                 | 11                | Not Detected     | 110                | Not Detected     |
| Cumene                    | 11                | Not Detected     | 54                 | Not Detected     |
| 1,1,2,2-Tetrachloroethane | 11                | Not Detected     | 76                 | Not Detected     |
| Propylbenzene             | 11                | Not Detected     | 54                 | Not Detected     |
| 4-Ethyltoluene            | 11                | Not Detected     | 54                 | Not Detected     |
| 1,3,5-Trimethylbenzene    | 11                | Not Detected     | 54                 | Not Detected     |
| 1,2,4-Trimethylbenzene    | 11                | Not Detected     | 54                 | Not Detected     |
| 1,3-Dichlorobenzene       | 11                | 16               | 66                 | 100              |
| 1,4-Dichlorobenzene       | 11                | Not Detected     | 66                 | Not Detected     |
| alpha-Chlorotoluene       | 11                | Not Detected     | 57                 | Not Detected     |
| 1,2-Dichlorobenzene       | 11                | Not Detected     | 66                 | Not Detected     |
| 1,2,4-Trichlorobenzene    | 44                | Not Detected     | 330                | Not Detected     |
| Hexachlorobutadiene       | 44                | Not Detected U J | 470                | Not Detected U J |

E = Exceeds instrument calibration range.

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

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 89        | 70-130        |
| 1,2-Dichloroethane-d4 | 122       | 70-130        |
| 4-Bromofluorobenzene  | 96        | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-C-060308

Lab ID#: 0806072A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|            |         |                    |                 |
|------------|---------|--------------------|-----------------|
| File Name  | 7051521 | Date of Collection | 6/3/08          |
| Dil Factor | 22.5    | Date of Analysis   | 6/6/08 03:24 AM |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv)               | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|----------------------------------|----------------------|--------------------------------|-----------------------|-------------------|
| Freon 12                         | 11                   | Not Detected                   | 56                    | Not Detected      |
| Freon 114                        | 11                   | Not Detected                   | 79                    | Not Detected      |
| Chloromethane                    | 45                   | Not Detected                   | 93                    | Not Detected      |
| Vinyl Chloride                   | 11                   | Not Detected                   | 29                    | Not Detected      |
| 1,3-Butadiene                    | 11                   | Not Detected                   | 25                    | Not Detected      |
| Bromomethane                     | 11                   | Not Detected                   | 44                    | Not Detected      |
| Chloroethane                     | 11                   | Not Detected                   | 30                    | Not Detected      |
| Freon 11                         | 11                   | Not Detected                   | 63                    | Not Detected      |
| Ethanol                          | 45                   | 4400                           | 85                    | 8300              |
| Freon 113                        | 11                   | Not Detected                   | 87                    | Not Detected      |
| 1,1-Dichloroethene               | 11                   | Not Detected                   | 45                    | Not Detected      |
| Acetone                          | 45                   | 89                             | 110                   | 210               |
| 2-Propanol                       | 45                   | 7250<br><del>47000 E</del> "J" | 110                   | 41000 E           |
| Carbon Disulfide                 | 11                   | Not Detected                   | 35                    | Not Detected      |
| 3-Chloropropene                  | 45                   | Not Detected                   | 140                   | Not Detected      |
| Methylene Chloride               | 11                   | Not Detected                   | 39                    | Not Detected      |
| Methyl tert-butyl ether          | 11                   | Not Detected                   | 41                    | Not Detected      |
| trans-1,2-Dichloroethene         | 11                   | Not Detected                   | 45                    | Not Detected      |
| Hexane                           | 11                   | Not Detected                   | 40                    | Not Detected      |
| 1,1-Dichloroethane               | 11                   | Not Detected                   | 46                    | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 11                   | Not Detected                   | 33                    | Not Detected      |
| cis-1,2-Dichloroethene           | 11                   | Not Detected                   | 45                    | Not Detected      |
| Tetrahydrofuran                  | 11                   | Not Detected                   | 33                    | Not Detected      |
| Chloroform                       | 11                   | Not Detected                   | 55                    | Not Detected      |
| 1,1,1-Trichloroethane            | 11                   | Not Detected                   | 62                    | Not Detected      |
| Cyclohexane                      | 11                   | Not Detected                   | 39                    | Not Detected      |
| Carbon Tetrachloride             | 11                   | Not Detected                   | 71                    | Not Detected      |
| 2,2,4-Trimethylpentane           | 11                   | Not Detected                   | 53                    | Not Detected      |
| Benzene                          | 11                   | Not Detected                   | 36                    | Not Detected      |
| 1,2-Dichloroethane               | 11                   | Not Detected                   | 46                    | Not Detected      |
| Heptane                          | 11                   | Not Detected                   | 46                    | Not Detected      |
| Trichloroethene                  | 11                   | Not Detected                   | 61                    | Not Detected      |
| 1,2-Dichloropropane              | 11                   | Not Detected                   | 52                    | Not Detected      |
| 1,4-Dioxane                      | 45                   | Not Detected                   | 160                   | Not Detected      |
| Bromodichloromethane             | 11                   | Not Detected                   | 76                    | Not Detected      |
| cis-1,3-Dichloropropene          | 11                   | Not Detected                   | 51                    | Not Detected      |
| 4-Methyl-2-pentanone             | 11                   | Not Detected                   | 46                    | Not Detected      |
| Toluene                          | 11                   | 18                             | 42                    | 66                |
| trans-1,3-Dichloropropene        | 11                   | Not Detected                   | 51                    | Not Detected      |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-C-060308

Lab ID#: 0806072A-08A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

|                 |         |                    |                  |
|-----------------|---------|--------------------|------------------|
| File Name       | 7061524 | Date of Collection | 6/3/08           |
| Dilution Factor | 22.5    | Date of Analysis   | 6/16/08 09:24 AM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv)          | Rpt. Limit (uG/m3) | Amount (uG/m3)   |
|---------------------------|-------------------|------------------------|--------------------|------------------|
| 1,1,2-Trichloroethane     | 11                | Not Detected           | 62                 | Not Detected     |
| Tetrachloroethene         | 11                | Not Detected           | 77                 | Not Detected     |
| 2-Hexanone                | 45                | Not Detected           | 180                | Not Detected     |
| Dibromochloromethane      | 11                | Not Detected           | 96                 | Not Detected     |
| 1,2-Dibromoethane (EDB)   | 11                | Not Detected           | 87                 | Not Detected     |
| Chlorobenzene             | 11                | Not Detected           | 52                 | Not Detected     |
| Ethyl Benzene             | 11                | Not Detected           | 49                 | Not Detected     |
| m,p-Xylene                | 11                | Not Detected           | 49                 | Not Detected     |
| o-Xylene                  | 11                | Not Detected           | 49                 | Not Detected     |
| Styrene                   | 11                | Not Detected           | 48                 | Not Detected     |
| Bromoform                 | 11                | Not Detected           | 120                | Not Detected     |
| Cumene                    | 11                | Not Detected           | 56                 | Not Detected     |
| 1,1,2,2-Tetrachloroethane | 11                | Not Detected           | 78                 | Not Detected     |
| Propylbenzene             | 11                | Not Detected           | 56                 | Not Detected     |
| 4-Ethyltoluene            | 11                | Not Detected           | 56                 | Not Detected     |
| 1,3,5-Trimethylbenzene    | 11                | Not Detected           | 56                 | Not Detected     |
| 1,2,4-Trimethylbenzene    | 11                | Not Detected           | 56                 | Not Detected     |
| 1,3-Dichlorobenzene       | 11                | 16                     | 68                 | 94               |
| 1,4-Dichlorobenzene       | 11                | Not Detected           | 68                 | Not Detected     |
| alpha-Chlorotoluene       | 11                | Not Detected           | 58                 | Not Detected     |
| 1,2-Dichlorobenzene       | 11                | Not Detected           | 68                 | Not Detected     |
| 1,2,4-Trichlorobenzene    | 45                | Not Detected           | 340                | Not Detected     |
| Hexachlorobutadiene       | 45                | Not Detected <i>UJ</i> | 480                | Not Detected U J |

E = Exceeds instrument calibration range.

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

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 88        | 70-130        |
| 1,2-Dichloroethane-d4 | 116       | 70-130        |
| 4-Bromofluorobenzene  | 98        | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-D-060308

Lab ID#: 0806072A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|            |         |                    |                  |
|------------|---------|--------------------|------------------|
| File Name  | 7061525 | Date of Collection | 6/3/08           |
| Dil Factor | 606     | Date of Analysis   | 6/16/08 04:14 AM |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv)  | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|----------------|--------------------|----------------|
| Freon 12                         | 300               | Not Detected   | 1500               | Not Detected   |
| Freon 114                        | 300               | Not Detected   | 2100               | Not Detected   |
| Chloromethane                    | 1200              | Not Detected   | 2500               | Not Detected   |
| Vinyl Chloride                   | 300               | Not Detected   | 770                | Not Detected   |
| 1,3-Butadiene                    | 300               | Not Detected   | 670                | Not Detected   |
| Bromomethane                     | 300               | Not Detected   | 1200               | Not Detected   |
| Chloroethane                     | 300               | Not Detected   | 800                | Not Detected   |
| Freon 11                         | 300               | Not Detected   | 1700               | Not Detected   |
| Ethanol                          | 1200              | 2100           | 2300               | 3900           |
| Freon 113                        | 300               | Not Detected   | 2300               | Not Detected   |
| 1,1-Dichloroethene               | 300               | Not Detected   | 1200               | Not Detected   |
| Acetone                          | 1200              | Not Detected   | 2900               | Not Detected   |
| 2-Propanol                       | 1200              | <i>&gt;200</i> | 3000               | 910000 E       |
| Carbon Disulfide                 | 300               | Not Detected   | 940                | Not Detected   |
| 3-Chloropropene                  | 1200              | Not Detected   | 3800               | Not Detected   |
| Methylene Chloride               | 300               | Not Detected   | 1000               | Not Detected   |
| Methyl tert-butyl ether          | 300               | Not Detected   | 1100               | Not Detected   |
| trans-1,2-Dichloroethene         | 300               | Not Detected   | 1200               | Not Detected   |
| Hexane                           | 300               | Not Detected   | 1100               | Not Detected   |
| 1,1-Dichloroethane               | 300               | Not Detected   | 1200               | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 300               | Not Detected   | 890                | Not Detected   |
| cis-1,2-Dichloroethene           | 300               | Not Detected   | 1200               | Not Detected   |
| Tetrahydrofuran                  | 300               | Not Detected   | 890                | Not Detected   |
| Chloroform                       | 300               | Not Detected   | 1500               | Not Detected   |
| 1,1,1-Trichloroethane            | 300               | Not Detected   | 1600               | Not Detected   |
| Cyclohexane                      | 300               | Not Detected   | 1000               | Not Detected   |
| Carbon Tetrachloride             | 300               | Not Detected   | 1900               | Not Detected   |
| 2,2,4-Trimethylpentane           | 300               | Not Detected   | 1400               | Not Detected   |
| Benzene                          | 300               | Not Detected   | 970                | Not Detected   |
| 1,2-Dichloroethane               | 300               | Not Detected   | 1200               | Not Detected   |
| Heptane                          | 300               | Not Detected   | 1200               | Not Detected   |
| Trichloroethene                  | 300               | Not Detected   | 1600               | Not Detected   |
| 1,2-Dichloropropane              | 300               | Not Detected   | 1400               | Not Detected   |
| 1,4-Dioxane                      | 1200              | Not Detected   | 4400               | Not Detected   |
| Bromodichloromethane             | 300               | Not Detected   | 2000               | Not Detected   |
| cis-1,3-Dichloropropene          | 300               | Not Detected   | 1400               | Not Detected   |
| 4-Methyl-2-pentanone             | 300               | Not Detected   | 1200               | Not Detected   |
| Toluene                          | 300               | Not Detected   | 1100               | Not Detected   |
| trans-1,3-Dichloropropene        | 300               | Not Detected   | 1400               | Not Detected   |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-D-060308

Lab ID#: 0806072A-09A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

|             |         |                     |                  |
|-------------|---------|---------------------|------------------|
| File Name:  | 7061525 | Date of Collection: | 6/3/08           |
| Dil Factor: | 606     | Date of Analysis:   | 6/16/08 04:14 AM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv)   | Rpt. Limit (uG/m3) | Amount (uG/m3)   |
|---------------------------|-------------------|-----------------|--------------------|------------------|
| 1,1,2-Trichloroethane     | 300               | Not Detected    | 1600               | Not Detected     |
| Tetrachloroethene         | 300               | Not Detected    | 2000               | Not Detected     |
| 2-Hexanone                | 1200              | Not Detected    | 5000               | Not Detected     |
| Dibromochloromethane      | 300               | Not Detected    | 2600               | Not Detected     |
| 1,2-Dibromoethane (EDB)   | 300               | Not Detected    | 2300               | Not Detected     |
| Chlorobenzene             | 300               | Not Detected    | 1400               | Not Detected     |
| Ethyl Benzene             | 300               | Not Detected    | 1300               | Not Detected     |
| m,p-Xylene                | 300               | Not Detected    | 1300               | Not Detected     |
| o-Xylene                  | 300               | Not Detected    | 1300               | Not Detected     |
| Styrene                   | 300               | Not Detected    | 1300               | Not Detected     |
| Bromoform                 | 300               | Not Detected    | 3100               | Not Detected     |
| Cumene                    | 300               | Not Detected    | 1500               | Not Detected     |
| 1,1,2,2-Tetrachloroethane | 300               | Not Detected    | 2100               | Not Detected     |
| Propylbenzene             | 300               | Not Detected    | 1500               | Not Detected     |
| 4-Ethyltoluene            | 300               | Not Detected    | 1500               | Not Detected     |
| 1,3,5-Trimethylbenzene    | 300               | Not Detected    | 1500               | Not Detected     |
| 1,2,4-Trimethylbenzene    | 300               | Not Detected    | 1500               | Not Detected     |
| 1,3-Dichlorobenzene       | 300               | Not Detected    | 1800               | Not Detected     |
| 1,4-Dichlorobenzene       | 300               | Not Detected    | 1800               | Not Detected     |
| alpha-Chlorotoluene       | 300               | Not Detected    | 1600               | Not Detected     |
| 1,2-Dichlorobenzene       | 300               | Not Detected    | 1800               | Not Detected     |
| 1,2,4-Trichlorobenzene    | 1200              | Not Detected    | 9000               | Not Detected     |
| Hexachlorobutadiene       | 1200              | Not Detected UJ | 13000              | Not Detected U J |

E = Exceeds instrument calibration range.  
 UJ = Non-detected compound associated with low bias in the CCV

**Container Type: 1 Liter Summa Canister**

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 84        | 70-130        |
| 1,2-Dichloroethane-d4 | 121       | 70-130        |
| 4-Bromofluorobenzene  | 99        | 70-130        |



## Rand Avenue Data Review

Laboratory SDG: 0806072B

Reviewer: Tony Sedlacek

Date Reviewed: 7/22/2008

Guidance: National Functional Guidelines for Organic Data Review 1999.

Applicable Work Plan: Route 111/Rand Avenue Vicinity Investigation Work Plan.

| Sample Identification # | Sample Identification # |
|-------------------------|-------------------------|
| GP-12-A-060308          | GP-12-B-060308          |
| GP-12-C-060308          | GP-12-D-060308          |
| GP-11-A-060308          | GP-11-B-060308          |
| GP-11-B-060308-DUP      | GP-11-C-060308          |
| GP-11-D-060308          |                         |

### 1.0 Data Package Completeness

*Were all items delivered as specified in the QAPP and COC?*

Yes

### 2.0 Laboratory Case Narrative \ Cooler Receipt Form

*Were problems noted in the laboratory case narrative or cooler receipt form?*

The laboratory case narrative and cooler receipt form did not indicate any problems.

### 3.0 Holding Times

*Were samples extracted/analyzed within QAPP limits?*

Yes

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

#### 4.0 Blank Contamination

*Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?*

No

| Blank ID | Parameter | Analyte | Concentration | Units |
|----------|-----------|---------|---------------|-------|
| N/A      |           |         |               |       |

Qualifications due to blank contamination are included in the table below.

| Field ID | Parameter | Analyte | New RL | Qualification |
|----------|-----------|---------|--------|---------------|
| N/A      |           |         |        |               |

#### 5.0 Laboratory Control Sample

*Were LCS recoveries within evaluation criteria?*

Yes

| LCS ID | Parameter | Analyte | LCS/LCSD Recovery | RPD | LCS/LCSD/RPD Criteria |
|--------|-----------|---------|-------------------|-----|-----------------------|
| N/A    |           |         |                   |     |                       |

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

#### 6.0 Surrogate Recoveries

*Were surrogate recoveries within evaluation criteria?*

Surrogates are not applicable for Method Modified ASTM D-1946.

| Field ID | Parameter | Surrogate | Recovery | Criteria |
|----------|-----------|-----------|----------|----------|
| N/A      |           |           |          |          |

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

## 7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

*Were MS/MSD samples reported as part of this SDG?*

MS/MSD samples are not applicable for air samples.

*Were MS/MSD recoveries within evaluation criteria?*

N/A

| MS/MSD ID | Parameter | Analyte | MS/MSD Recovery | RPD | MS/MSD/RPD Criteria |
|-----------|-----------|---------|-----------------|-----|---------------------|
| N/A       |           |         |                 |     |                     |

Analytical data that required qualification based on MS/MSD data are included in the table below.

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

## 8.0 Laboratory Duplicate Results

*Were laboratory duplicate samples collected as part of this SDG?*

Yes, sample GP-11-B-060308-DUP was duplicated by the laboratory and analyzed for Modified ASTM D-1946.

*Were laboratory duplicate sample RPDs within criteria?*

N/A

| Field ID | Parameter | Analyte | RPD | Criteria |
|----------|-----------|---------|-----|----------|
| N/A      |           |         |     |          |

Data qualified due to outlying laboratory duplicate recoveries are identified below:

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

## 9.0 Field Duplicate Results

*Were field duplicate samples collected as part of this SDG?*

Yes

| Field ID       | Field Duplicate ID |
|----------------|--------------------|
| GP-11-B-060308 | GP-11-B-060308-DUP |

*Were field duplicates within evaluation criteria?*

Yes

| Field ID | Field Duplicate ID | Parameter | Analyte | RPD | Qualification |
|----------|--------------------|-----------|---------|-----|---------------|
| N/A      |                    |           |         |     |               |

## 10.0 Sample Dilutions

*For samples that were diluted and nondetect, were undiluted results also reported?*

Yes

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run *was not* reported:

| Field ID | Parameter | Dilution Factor |
|----------|-----------|-----------------|
| N/A      |           |                 |

## 11.0 Additional Qualifications

*Were additional qualifications applied?*

No



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

**180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630**

**(916) 985-1000 .FAX (916) 985-1020  
Hours 8:00 A.M to 6:00 P.M. Pacific**



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0806072B**

Work Order Summary

|                        |   |                  |  |
|------------------------|---|------------------|--|
| <b>CLIENT:</b>         | Mr. Mike Miller<br>URS Corporation<br>1001 Highlands Plaza Dr. West<br>Suite 300<br>St. Louis, MO 63110 | <b>BILL TO:</b>  | Accounts Payable OSP 2660 A<br>Equiva Services/Shell Oil Products<br>P.O. Box 4912<br>Houston, TX 77210-4720 |
| <b>PHONE:</b>          | 314-566-3073  | <b>P.O. #</b>    | 4700002383   |
| <b>FAX:</b>            |   | <b>PROJECT #</b> | 21561979 Rte 111 & Rand Ave Vicinity   |
| <b>DATE RECEIVED:</b>  | 06/04/2008  | <b>CONTACT:</b>  | Brandon Dunmore  |
| <b>DATE COMPLETED:</b> | 06/17/2008  |                  |  |

| <u>FRACTION #</u> | <u>NAME</u>                  | <u>TEST</u>          | <u>RECEIPT<br/>VAC./PRES.</u> | <u>FINAL<br/>PRESSURE</u> |
|-------------------|------------------------------|----------------------|-------------------------------|---------------------------|
| 01A               | GP-12-A-060308               | Modified ASTM D-1946 | 9.5 "Hg                       | 15 psi                    |
| 02A               | GP-12-B-060308               | Modified ASTM D-1946 | 8.0 "Hg                       | 15 psi                    |
| 03A               | GP-12-C-060308               | Modified ASTM D-1946 | 8.5 "Hg                       | 15 psi                    |
| 04A               | GP-12-D-060308               | Modified ASTM D-1946 | 7.5 "Hg                       | 15 psi                    |
| 04AA              | GP-12-D-060308 Lab Duplicate | Modified ASTM D-1946 | 7.5 "Hg                       | 15 psi                    |
| 05A               | GP-11-A-060308               | Modified ASTM D-1946 | 8.5 "Hg                       | 15 psi                    |
| 06A               | GP-11-B-060308               | Modified ASTM D-1946 | 10.0 "Hg                      | 15 psi                    |
| 07A               | GP-11-B-060308-DUP           | Modified ASTM D-1946 | 8.0 "Hg                       | 15 psi                    |
| 08A               | GP-11-C-060308               | Modified ASTM D-1946 | 8.5 "Hg                       | 15 psi                    |
| 09A               | GP-11-D-060308               | Modified ASTM D-1946 | 10.0 "Hg                      | 15 psi                    |
| 10A               | Lab Blank                    | Modified ASTM D-1946 | NA                            | NA                        |
| 11A               | LCS                          | Modified ASTM D-1946 | NA                            | NA                        |

CERTIFIED BY: *Sandra J. Freeman* DATE: 06/17/08

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004

NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAP standards

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

**LABORATORY NARRATIVE**  
**Modified ASTM D-1946**  
**URS Corporation**  
**Workorder# 0806072B**

TABLE 1 Data Summa Canister samples were received on June 04, 2006. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

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

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

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

| <i>Requirement</i>      | <i>ASTM D-1946</i>   | <i>ATL Modifications</i>   |
|-------------------------|--|--|
| Calibration             | A single point calibration is performed using a reference standard closely matching the composition of the unknown.  | A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.   |
| Reference Standard      | The composition of any reference standard must be known to within 0.01 mol % for any component.  | The standards used by ATL are blended to a $\geq 95\%$ accuracy.   |
| Sample Injection Volume | Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.   | The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum. |
| Normalization           | Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%. | Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.       |
| Precision               | Precision requirements established at each concentration level.  | Duplicates should agree within 25% RPD for detections $> 5 X$ 's the RL.   |

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

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

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

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-12-A-060308

Lab ID#: 0806072B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060705 | Date of Collection: | 6/3/08          |
| Dil. Factor: | 2.96    | Date of Analysis:   | 6/7/08 09:36 AM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.30           | 7.0          |
| Nitrogen        | 0.30           | 81           |
| Carbon Monoxide | 0.030          | Not Detected |
| Methane         | 0.00030        | Not Detected |
| Carbon Dioxide  | 0.030          | 12           |
| Ethane          | 0.0030         | Not Detected |
| Ethene          | 0.0030         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-12-B-060308

Lab ID#: 0806072B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060706 | Date of Collection: | 8/3/08          |
| Dil. Factor: | 2.76    | Date of Analysis:   | 6/7/08 09:58 AM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.28           | 4.7          |
| Nitrogen        | 0.28           | 80           |
| Carbon Monoxide | 0.028          | Not Detected |
| Methane         | 0.00028        | Not Detected |
| Carbon Dioxide  | 0.028          | 15           |
| Ethane          | 0.0028         | Not Detected |
| Ethene          | 0.0028         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-12-C-060308

Lab ID#: 0806072B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060707 | Date of Collection: | 6/3/08          |
| Dil. Factor: | 2.82    | Date of Analysis:   | 6/7/08 10:20 AM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.28           | 3.4          |
| Nitrogen        | 0.28           | 80           |
| Carbon Monoxide | 0.028          | Not Detected |
| Methane         | 0.00028        | 0.00047      |
| Carbon Dioxide  | 0.028          | 16           |
| Ethane          | 0.0028         | Not Detected |
| Ethene          | 0.0028         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-12-D-060308

Lab ID#: 0806072B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|                     |                |  |
|---------------------|----------------|--|
| <b>File Name:</b>   | <b>9060708</b> | <b>Date of Collection:</b> 6/3/08        |
| <b>Dil. Factor:</b> | <b>2.69</b>    | <b>Date of Analysis:</b> 6/7/08 10:43 AM |

| <b>Compound</b> | <b>Rpt. Limit (%)</b> | <b>Amount (%)</b> |
|-----------------|-----------------------|-------------------|
| Oxygen          | 0.27                  | 2.9               |
| Nitrogen        | 0.27                  | 80                |
| Carbon Monoxide | 0.027                 | Not Detected      |
| Methane         | 0.00027               | 0.0014            |
| Carbon Dioxide  | 0.027                 | 17                |
| Ethane          | 0.0027                | Not Detected      |
| Ethene          | 0.0027                | Not Detected      |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-12-D-060308 Lab Duplicate

Lab ID#: 0806072B-04AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060714 | Date of Collection: | 6/3/08          |
| Dil. Factor: | 2.69    | Date of Analysis:   | 6/7/08 12:59 PM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.27           | 2.9          |
| Nitrogen        | 0.27           | 80           |
| Carbon Monoxide | 0.027          | Not Detected |
| Methane         | 0.00027        | 0.0014       |
| Carbon Dioxide  | 0.027          | 17           |
| Ethane          | 0.0027         | Not Detected |
| Ethene          | 0.0027         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-A-060308

Lab ID#: 0806072B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060709 | Date of Collection: | 6/3/08          |
| Dil. Factor: | 2.82    | Date of Analysis:   | 6/7/08 11:05 AM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.28           | 14           |
| Nitrogen        | 0.28           | 80           |
| Carbon Monoxide | 0.028          | Not Detected |
| Methane         | 0.00028        | Not Detected |
| Carbon Dioxide  | 0.028          | 6.1          |
| Ethane          | 0.0028         | Not Detected |
| Ethene          | 0.0028         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-B-060308

Lab ID#: 0806072B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060710 | Date of Collection: | 6/3/08          |
| Dil. Factor: | 3.03    | Date of Analysis:   | 6/7/08 11:27 AM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.30           | 13           |
| Nitrogen        | 0.30           | 80           |
| Carbon Monoxide | 0.030          | Not Detected |
| Methane         | 0.00030        | Not Detected |
| Carbon Dioxide  | 0.030          | 6.9          |
| Ethane          | 0.0030         | Not Detected |
| Ethene          | 0.0030         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-B-060308-DUP

Lab ID#: 0806072B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060711 | Date of Collection: | 6/3/08          |
| Dil. Factor: | 2.76    | Date of Analysis:   | 6/7/08 11:53 AM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.28           | 13           |
| Nitrogen        | 0.28           | 80           |
| Carbon Monoxide | 0.028          | Not Detected |
| Methane         | 0.00028        | Not Detected |
| Carbon Dioxide  | 0.028          | 7.0          |
| Ethane          | 0.0028         | Not Detected |
| Ethene          | 0.0028         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-C-060308

Lab ID#: 0806072B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060712 | Date of Collection: | 6/3/08          |
| Dil. Factor: | 2.82    | Date of Analysis:   | 6/7/08 12:15 PM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.28           | 12           |
| Nitrogen        | 0.28           | 80           |
| Carbon Monoxide | 0.028          | Not Detected |
| Methane         | 0.00028        | Not Detected |
| Carbon Dioxide  | 0.028          | 7.8          |
| Ethane          | 0.0028         | Not Detected |
| Ethene          | 0.0028         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-11-D-060308

Lab ID#: 0806072B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060713 | Date of Collection: | 6/3/08          |
| Dil. Factor: | 3.03    | Date of Analysis:   | 6/7/08 12:37 PM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.30           | 8.5          |
| Nitrogen        | 0.30           | 82           |
| Carbon Monoxide | 0.030          | Not Detected |
| Methane         | 0.00030        | Not Detected |
| Carbon Dioxide  | 0.030          | 10           |
| Ethane          | 0.0030         | Not Detected |
| Ethene          | 0.0030         | Not Detected |

Container Type: 1 Liter Summa Canister



**CHAIN-OF-CUSTODY RECORD**

**Sample Transportation Notice**

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. ☐ O.T. Hotline (800) 457-4992

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Page 1 of 1

Project Manager Jeff Adams (Chimes-adams@erdc.gov)  
Collected by: (Print and Sign) Michael Miller  
Company URS Corporation Email michael.miller@urscorp.com  
Address 1001 Highlands Plaza Dr City St Louis State MO Zip 63116  
Phone 314 439-0100 Fax 314 439-0162

|   |   |   |
|---|---|---|
| Project Info:<br>P.O. # _____<br>Project # <u>21061979</u><br>Project Name <u>Rte 111 &amp; Rud Ave, Wash</u> | Turn Around Time:   | Lab Use Only  |
|   | <input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush<br><small>specify</small> | Pressurized by:<br>Date:<br>Pressurization Gas:<br><u>N<sub>2</sub></u> <u>He</u> |

| Lab I.D.   | Field Sample I.D. (Location) | Can #        | Date of Collection | Time of Collection | Analyses Requested             | Canister Pressure/Vacuum |            |         |              |
|------------|------------------------------|--------------|--------------------|--------------------|--------------------------------|--------------------------|------------|---------|--------------|
|            |                              |              |                    |                    |                                | Initial                  | Final      | Receipt | Final (psig) |
| <u>01A</u> | <u>GP-12A-060308</u>         | <u>13389</u> | <u>06-03-08</u>    | <u>0925</u>        | <u>TO-15 &amp; ASTM D-1946</u> | <u>29</u>                | <u>8</u>   |         |              |
| <u>02A</u> | <u>GP-12-B-060308</u>        | <u>33906</u> | <u>06-03-08</u>    | <u>0909</u>        | <u>TO-15 &amp; ASTM D-1946</u> | <u>29</u>                | <u>8</u>   |         |              |
| <u>03A</u> | <u>GP-12-C-060308</u>        | <u>31752</u> | <u>06-03-08</u>    | <u>0935</u>        | <u>TO-15 &amp; ASTM D-1946</u> | <u>29</u>                | <u>7</u>   |         |              |
| <u>04A</u> | <u>GP-12-D-060308</u>        | <u>36564</u> | <u>06-03-08</u>    | <u>0940</u>        | <u>TO-15 &amp; ASTM D-1946</u> | <u>30</u>                | <u>8</u>   |         |              |
| <u>05A</u> | <u>GP-11-A-060308</u>        | <u>42186</u> | <u>06-03-08</u>    | <u>1345</u>        | <u>TO-15 &amp; ASTM D-1946</u> | <u>30</u>                | <u>9</u>   |         |              |
| <u>06A</u> | <u>GP-11-B-060308</u>        | <u>42033</u> | <u>06-03-08</u>    | <u>1350</u>        | <u>TO-15 &amp; ASTM D-1946</u> | <u>29</u>                | <u>10</u>  |         |              |
| <u>07A</u> | <u>GP-11-B-060308-DUP</u>    | <u>42120</u> | <u>06-03-08</u>    | <u>1350</u>        | <u>TO-15 &amp; ASTM D-1946</u> | <u>29</u>                | <u>6.5</u> |         |              |
| <u>08A</u> | <u>GP-11-C-060308</u>        | <u>42032</u> | <u>06-03-08</u>    | <u>1355</u>        | <u>TO-15 &amp; ASTM D-1946</u> | <u>30</u>                | <u>9</u>   |         |              |
| <u>09A</u> | <u>GP-11-D-060308</u>        | <u>42031</u> | <u>06-03-08</u>    | <u>1410</u>        | <u>TO-15 &amp; ASTM D-1946</u> | <u>30</u>                | <u>9</u>   |         |              |

|  |   |        |
|--|---|--------|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>06/03/08 1700</u> | Received by: (signature) <u>Federx</u> Date/Time                          | Notes: |
| Relinquished by: (signature) _____ Date/Time _____                             | Received by: (signature) <u>Monica Groen</u> Date/Time <u>6/4/08 1000</u> |        |
| Relinquished by: (signature) _____ Date/Time _____                             | Received by: (signature) _____ Date/Time _____                            |        |

|              |               |                       |           |             |   |                |
|--------------|---------------|-----------------------|-----------|-------------|---|----------------|
| Lab Use Only | Shipper Name  | Alt Bill #            | Temp (°C) | Condition   | Custody Seals Intact?   | Work Order #   |
|              | <u>Federx</u> | <u>8640 3796 9501</u> | <u>MA</u> | <u>Good</u> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None | <u>0806078</u> |



# Rand Avenue Data Review

Laboratory SDG: 0806099A

Reviewer: Tony Sedlacek

Date Reviewed: 7/22/2008

Guidance: National Functional Guidelines for Organic Data Review 1999.

Applicable Work Plan: Route 111/Rand Avenue Vicinity Investigation Work Plan.

| Sample Identification # | Sample Identification # |
|-------------------------|-------------------------|
| GP-13-A-060408          | GP-13-B-060408          |
| GP-13-C-060408          | GP-13-D-060408          |
| GP-9-A-060408           | GP-9-B-060408           |
| GP-9-C-060408           | GP-9-C-060408-DUP       |
| GP-9-D-060408           |                         |

## 1.0 Data Package Completeness

*Were all items delivered as specified in the QAPP and COC?*

Yes

## 2.0 Laboratory Case Narrative \ Cooler Receipt Form

*Were problems noted in the laboratory case narrative or cooler receipt form?*

No, although not indicated in the laboratory case narrative, 2-propanol results in several samples exceeded the calibration range of the instrument; therefore, professional judgment was used to qualify 2-propanol in these samples. This issue is addressed further in the appropriate section below.

The cooler receipt form did not indicate any problems.

## 3.0 Holding Times

*Were samples extracted/analyzed within QAPP limits?*

Yes

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

**4.0 Blank Contamination**

*Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?*

No

| Blank ID | Parameter | Analyte | Concentration | Units |
|----------|-----------|---------|---------------|-------|
| N/A      |           |         |               |       |

Qualifications due to blank contamination are included in the table below.

| Field ID | Parameter | Analyte | New RL | Qualification |
|----------|-----------|---------|--------|---------------|
| N/A      |           |         |        |               |

**5.0 Laboratory Control Sample**

*Were LCS recoveries within evaluation criteria?*

Yes

| LCS ID | Parameter | Analyte | LCS/LCSD Recovery | RPD | LCS/LCSD/RPD Criteria |
|--------|-----------|---------|-------------------|-----|-----------------------|
| N/A    |           |         |                   |     |                       |

Analytical data that required qualification based on LCS data are included in the table below.

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

**6.0 Surrogate Recoveries**

*Were surrogate recoveries within evaluation criteria?*

Yes

| Field ID | Parameter | Surrogate | Recovery | Criteria |
|----------|-----------|-----------|----------|----------|
| N/A      |           |           |          |          |

Analytical data that required qualification based on surrogate data are included in the table below.

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

**7.0 Matrix Spike and Matrix Spike Duplicate Recoveries**

*Were MS/MSD samples reported as part of this SDG?*

MS/MSD samples are not applicable for air samples.

*Were MS/MSD recoveries within evaluation criteria?*

N/A

| MS/MSD ID | Parameter | Analyte | MS/MSD Recovery | RPD | MS/MSD/RPD Criteria |
|-----------|-----------|---------|-----------------|-----|---------------------|
| N/A       |           |         |                 |     |                     |

Analytical data that required qualification based on MS/MSD data are included in the table below.

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

**8.0 Laboratory Duplicate Results**

*Were laboratory duplicate samples collected as part of this SDG?*

No

*Were laboratory duplicate sample RPDs within criteria?*

N/A

| Field ID | Parameter | Analyte | RPD | Criteria |
|----------|-----------|---------|-----|----------|
| N/A      |           |         |     |          |

Data qualified due to outlying laboratory duplicate recoveries are identified below:

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

## 9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

| Field ID      | Field Duplicate ID |
|---------------|--------------------|
| GP-9-C-060408 | GP-9-C-060408-DUP  |

Were field duplicates within evaluation criteria?

Yes

| Field ID | Field Duplicate ID | Parameter | Analyte | RPD | Qualification |
|----------|--------------------|-----------|---------|-----|---------------|
| N/A      |                    |           |         |     |               |

## 10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Yes

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run *was not* reported:

| Field ID | Parameter | Dilution Factor |
|----------|-----------|-----------------|
| N/A      |           |                 |

## 11.0 Additional Qualifications

Were additional qualifications applied?

Yes

Professional judgment was used to qualify 2-propanol in several samples listed in the table below. The compound 2-propanol exceeded the calibration range of the instrument in these samples. The 2-propanol results will be reported as > 200 in both samples.

| Field ID          | Analyte    | Qualification | Comments              |
|-------------------|------------|---------------|-----------------------|
| GP-13-A-060408    | 2-propanol | J             | Professional Judgment |
| GP-13-C-060408    | 2-propanol | J             | Professional Judgment |
| GP-9-A-060408     | 2-propanol | J             | Professional Judgment |
| GP-9-B-060408     | 2-propanol | J             | Professional Judgment |
| GP-9-C-060408     | 2-propanol | J             | Professional Judgment |
| GP-9-C-060408-DUP | 2-propanol | J             | Professional Judgment |
| GP-9-D-060408     | 2-propanol | J             | Professional Judgment |



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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

**180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630**

**(916) 985-1000 .FAX (916) 985-1020  
Hours 8:00 A.M to 6:00 P.M. Pacific**



AN ENVIRONMENTAL ANALYTICAL LABORATORY

### WORK ORDER #: 0806099A

#### Work Order Summary

**CLIENT:** Mr. Mike Miller  
URS Corporation  
1001 Highlands Plaza Dr. West  
Suite 300  
St. Louis, MO 63110

**BILL TO:** Accounts Payable OSP 2660 A  
Equiva Services/Shell Oil Products  
P.O. Box 4912  
Houston, TX 77210-4720

**PHONE:** 314-566-3073                      **P.O. #** 4700002383

**FAX:**    **PROJECT #** 21561979 Rte 111 & Rand Ave Vicinity

**DATE RECEIVED:** 06/05/2008              **CONTACT:** Brandon Dunmore

**DATE COMPLETED:** 06/18/2008

| <u>FRACTION #</u> | <u>NAME</u>       | <u>TEST</u>    | <u>RECEIPT<br/>VAC./PRES.</u> | <u>FINAL<br/>PRESSURE</u> |
|-------------------|-------------------|----------------|-------------------------------|---------------------------|
| 01A               | GP-13-A-060408    | Modified TO-15 | 10.0 "Hg                      | 15 psi                    |
| 02A               | GP-13-B-060408    | Modified TO-15 | 9.0 "Hg                       | 15 psi                    |
| 03A               | GP-13-C-060408    | Modified TO-15 | 7.5 "Hg                       | 15 psi                    |
| 04A               | GP-13-D-060408    | Modified TO-15 | 9.0 "Hg                       | 15 psi                    |
| 05A               | GP-9-A-060408     | Modified TO-15 | 8.5 "Hg                       | 15 psi                    |
| 06A               | GP-9-B-060408     | Modified TO-15 | 9.0 "Hg                       | 15 psi                    |
| 07A               | GP-9-C-060408     | Modified TO-15 | 9.0 "Hg                       | 15 psi                    |
| 08A               | GP-9-C-060408-DUP | Modified TO-15 | 8.5 "Hg                       | 15 psi                    |
| 09A               | GP-9-D-060408     | Modified TO-15 | 7.5 "Hg                       | 15 psi                    |
| 10A               | Lab Blank         | Modified TO-15 | NA                            | NA                        |
| 10B               | Lab Blank         | Modified TO-15 | NA                            | NA                        |
| 11A               | CCV               | Modified TO-15 | NA                            | NA                        |
| 11B               | CCV               | Modified TO-15 | NA                            | NA                        |
| 12A               | LCS               | Modified TO-15 | NA                            | NA                        |
| 12B               | LCS               | Modified TO-15 | NA                            | NA                        |

CERTIFIED BY: Sandra J. Freeman

DATE: 06/18/08

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719  
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08  
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE  
Modified TO-15  
URS Corporation  
Workorder# 0806099A**

Nine 1 Liter Summa Canister samples were received on June 05, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

| <i>Requirement</i>      | <i>TO-15</i>               | <i>ATL Modifications</i>  |
|-------------------------|----------------------------|---|
| Daily CCV               | +/- 30% Difference         | <= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers   |
| Sample collection media | Summa canister             | ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request  |
| Method Detection Limit  | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

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

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

- J - Estimated value.

- E - Exceeds instrument calibration range.

- S - Saturated peak.

- Q - Exceeds quality control limits.

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



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UJ- Non-detected compound associated with low bias in the CCV  
N - The identification is based on presumptive evidence.

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

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-13-A-060408

Lab ID#: 0806099A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |          |                     |                  |
|--------------|----------|---------------------|------------------|
| File Name:   | 08061713 | Date of Collection: | 6/4/08           |
| Dil. Factor: | 303      | Date of Analysis:   | 6/17/08 07:03 PM |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv)      | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|--------------------|--------------------|----------------|
| Freon 12                         | 150               | Not Detected       | 750                | Not Detected   |
| Freon 114                        | 150               | Not Detected       | 1000               | Not Detected   |
| Chloromethane                    | 610               | Not Detected       | 1200               | Not Detected   |
| Vinyl Chloride                   | 150               | Not Detected       | 390                | Not Detected   |
| 1,3-Butadiene                    | 150               | Not Detected       | 340                | Not Detected   |
| Bromomethane                     | 150               | Not Detected       | 590                | Not Detected   |
| Chloroethane                     | 150               | Not Detected       | 400                | Not Detected   |
| Freon 11                         | 150               | Not Detected       | 850                | Not Detected   |
| Ethanol                          | 610               | Not Detected       | 1100               | Not Detected   |
| Freon 113                        | 150               | Not Detected       | 1200               | Not Detected   |
| 1,1-Dichloroethene               | 150               | Not Detected       | 600                | Not Detected   |
| Acetone                          | 610               | 2700               | 1400               | 6300           |
| 2-Propanol                       | 610               | >250 -220000 E "J" | 1500               | 540000 E       |
| Carbon Disulfide                 | 150               | Not Detected       | 470                | Not Detected   |
| 3-Chloropropene                  | 610               | Not Detected       | 1900               | Not Detected   |
| Methylene Chloride               | 150               | Not Detected       | 530                | Not Detected   |
| Methyl tert-butyl ether          | 150               | Not Detected       | 550                | Not Detected   |
| trans-1,2-Dichloroethene         | 150               | Not Detected       | 600                | Not Detected   |
| Hexane                           | 150               | Not Detected       | 530                | Not Detected   |
| 1,1-Dichloroethane               | 150               | Not Detected       | 610                | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 150               | Not Detected       | 450                | Not Detected   |
| cis-1,2-Dichloroethene           | 150               | Not Detected       | 600                | Not Detected   |
| Tetrahydrofuran                  | 150               | Not Detected       | 450                | Not Detected   |
| Chloroform                       | 150               | Not Detected       | 740                | Not Detected   |
| 1,1,1-Trichloroethane            | 150               | Not Detected       | 830                | Not Detected   |
| Cyclohexane                      | 150               | Not Detected       | 520                | Not Detected   |
| Carbon Tetrachloride             | 150               | Not Detected       | 950                | Not Detected   |
| 2,2,4-Trimethylpentane           | 150               | Not Detected       | 710                | Not Detected   |
| Benzene                          | 150               | Not Detected       | 480                | Not Detected   |
| 1,2-Dichloroethane               | 150               | Not Detected       | 610                | Not Detected   |
| Heptane                          | 150               | Not Detected       | 620                | Not Detected   |
| Trichloroethene                  | 150               | Not Detected       | 810                | Not Detected   |
| 1,2-Dichloropropane              | 150               | Not Detected       | 700                | Not Detected   |
| 1,4-Dioxane                      | 610               | Not Detected       | 2200               | Not Detected   |
| Bromodichloromethane             | 150               | Not Detected       | 1000               | Not Detected   |
| cis-1,3-Dichloropropene          | 150               | Not Detected       | 690                | Not Detected   |
| 4-Methyl-2-pentanone             | 150               | Not Detected       | 620                | Not Detected   |
| Toluene                          | 150               | Not Detected       | 570                | Not Detected   |
| trans-1,3-Dichloropropene        | 150               | Not Detected       | 690                | Not Detected   |



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Client Sample ID: GP-13-A-060408

Lab ID#: 0806099A-01A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

|              |         |                                    |
|--------------|---------|------------------------------------|
| File Name:   | b061713 | Date of Collection: 6/4/08         |
| Dil. Factor: | 303     | Date of Analysis: 6/17/08 07:03 PM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---------------------------|-------------------|---------------|--------------------|----------------|
| 1,1,2-Trichloroethane     | 150               | Not Detected  | 830                | Not Detected   |
| Tetrachloroethene         | 150               | Not Detected  | 1000               | Not Detected   |
| 2-Hexanone                | 610               | Not Detected  | 2500               | Not Detected   |
| Dibromochloromethane      | 150               | Not Detected  | 1300               | Not Detected   |
| 1,2-Dibromoethane (EDB)   | 150               | Not Detected  | 1200               | Not Detected   |
| Chlorobenzene             | 150               | Not Detected  | 700                | Not Detected   |
| Ethyl Benzene             | 150               | Not Detected  | 660                | Not Detected   |
| m,p-Xylene                | 150               | Not Detected  | 660                | Not Detected   |
| o-Xylene                  | 150               | Not Detected  | 660                | Not Detected   |
| Styrene                   | 150               | Not Detected  | 640                | Not Detected   |
| Bromoform                 | 150               | Not Detected  | 1600               | Not Detected   |
| Cumene                    | 150               | Not Detected  | 740                | Not Detected   |
| 1,1,2,2-Tetrachloroethane | 150               | Not Detected  | 1000               | Not Detected   |
| Propylbenzene             | 150               | Not Detected  | 740                | Not Detected   |
| 4-Ethyltoluene            | 150               | Not Detected  | 740                | Not Detected   |
| 1,3,5-Trimethylbenzene    | 150               | Not Detected  | 740                | Not Detected   |
| 1,2,4-Trimethylbenzene    | 150               | Not Detected  | 740                | Not Detected   |
| 1,3-Dichlorobenzene       | 150               | Not Detected  | 910                | Not Detected   |
| 1,4-Dichlorobenzene       | 150               | Not Detected  | 910                | Not Detected   |
| alpha-Chlorotoluene       | 150               | Not Detected  | 780                | Not Detected   |
| 1,2-Dichlorobenzene       | 150               | Not Detected  | 910                | Not Detected   |
| 1,2,4-Trichlorobenzene    | 610               | Not Detected  | 4500               | Not Detected   |
| Hexachlorobutadiene       | 610               | Not Detected  | 6500               | Not Detected   |

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 100       | 70-130        |
| 1,2-Dichloroethane-d4 | 115       | 70-130        |
| 4-Bromofluorobenzene  | 99        | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-13-B-060408

Lab ID#: 0806099A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|                     |         |                            |                  |
|---------------------|---------|----------------------------|------------------|
| <b>File Name:</b>   | b061709 | <b>Date of Collection:</b> | 6/4/08           |
| <b>Dil. Factor:</b> | 289     | <b>Date of Analysis:</b>   | 6/17/08 02:56 PM |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12                         | 140                  | Not Detected     | 710                   | Not Detected      |
| Freon 114                        | 140                  | Not Detected     | 1000                  | Not Detected      |
| Chloromethane                    | 580                  | Not Detected     | 1200                  | Not Detected      |
| Vinyl Chloride                   | 140                  | Not Detected     | 370                   | Not Detected      |
| 1,3-Butadiene                    | 140                  | Not Detected     | 320                   | Not Detected      |
| Bromomethane                     | 140                  | Not Detected     | 560                   | Not Detected      |
| Chloroethane                     | 140                  | Not Detected     | 380                   | Not Detected      |
| Freon 11                         | 140                  | Not Detected     | 810                   | Not Detected      |
| Ethanol                          | 580                  | 1100             | 1100                  | 2000              |
| Freon 113                        | 140                  | Not Detected     | 1100                  | Not Detected      |
| 1,1-Dichloroethene               | 140                  | Not Detected     | 570                   | Not Detected      |
| Acetone                          | 580                  | Not Detected     | 1400                  | Not Detected      |
| 2-Propanol                       | 580                  | 32000            | 1400                  | 79000             |
| Carbon Disulfide                 | 140                  | Not Detected     | 450                   | Not Detected      |
| 3-Chloropropene                  | 580                  | Not Detected     | 1800                  | Not Detected      |
| Methylene Chloride               | 140                  | Not Detected     | 500                   | Not Detected      |
| Methyl tert-butyl ether          | 140                  | Not Detected     | 520                   | Not Detected      |
| trans-1,2-Dichloroethene         | 140                  | Not Detected     | 570                   | Not Detected      |
| Hexane                           | 140                  | Not Detected     | 510                   | Not Detected      |
| 1,1-Dichloroethane               | 140                  | Not Detected     | 580                   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 140                  | Not Detected     | 430                   | Not Detected      |
| cis-1,2-Dichloroethene           | 140                  | Not Detected     | 570                   | Not Detected      |
| Tetrahydrofuran                  | 140                  | Not Detected     | 430                   | Not Detected      |
| Chloroform                       | 140                  | Not Detected     | 700                   | Not Detected      |
| 1,1,1-Trichloroethane            | 140                  | Not Detected     | 790                   | Not Detected      |
| Cyclohexane                      | 140                  | Not Detected     | 500                   | Not Detected      |
| Carbon Tetrachloride             | 140                  | Not Detected     | 910                   | Not Detected      |
| 2,2,4-Trimethylpentane           | 140                  | Not Detected     | 680                   | Not Detected      |
| Benzene                          | 140                  | Not Detected     | 460                   | Not Detected      |
| 1,2-Dichloroethane               | 140                  | Not Detected     | 580                   | Not Detected      |
| Heptane                          | 140                  | Not Detected     | 590                   | Not Detected      |
| Trichloroethene                  | 140                  | Not Detected     | 780                   | Not Detected      |
| 1,2-Dichloropropane              | 140                  | Not Detected     | 670                   | Not Detected      |
| 1,4-Dioxane                      | 580                  | Not Detected     | 2100                  | Not Detected      |
| Bromodichloromethane             | 140                  | Not Detected     | 970                   | Not Detected      |
| cis-1,3-Dichloropropene          | 140                  | Not Detected     | 660                   | Not Detected      |
| 4-Methyl-2-pentanone             | 140                  | Not Detected     | 590                   | Not Detected      |
| Toluene                          | 140                  | Not Detected     | 540                   | Not Detected      |
| trans-1,3-Dichloropropene        | 140                  | Not Detected     | 660                   | Not Detected      |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-13-B-060408

Lab ID#: 0806099A-02A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | b061709 | Date of Collection: | 6/4/08           |
| Dil. Factor: | 289     | Date of Analysis:   | 6/17/08 02:56 PM |

| Compound                  | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| 1,1,2-Trichloroethane     | 140                  | Not Detected     | 790                   | Not Detected      |
| Tetrachloroethene         | 140                  | Not Detected     | 980                   | Not Detected      |
| 2-Hexanone                | 580                  | Not Detected     | 2400                  | Not Detected      |
| Dibromochloromethane      | 140                  | Not Detected     | 1200                  | Not Detected      |
| 1,2-Dibromoethane (EDB)   | 140                  | Not Detected     | 1100                  | Not Detected      |
| Chlorobenzene             | 140                  | Not Detected     | 660                   | Not Detected      |
| Ethyl Benzene             | 140                  | Not Detected     | 630                   | Not Detected      |
| m,p-Xylene                | 140                  | 250              | 630                   | 1100              |
| o-Xylene                  | 140                  | Not Detected     | 630                   | Not Detected      |
| Styrene                   | 140                  | Not Detected     | 620                   | Not Detected      |
| Bromoform                 | 140                  | Not Detected     | 1500                  | Not Detected      |
| Cumene                    | 140                  | Not Detected     | 710                   | Not Detected      |
| 1,1,2,2-Tetrachloroethane | 140                  | Not Detected     | 990                   | Not Detected      |
| Propylbenzene             | 140                  | Not Detected     | 710                   | Not Detected      |
| 4-Ethyltoluene            | 140                  | 140              | 710                   | 710               |
| 1,3,5-Trimethylbenzene    | 140                  | Not Detected     | 710                   | Not Detected      |
| 1,2,4-Trimethylbenzene    | 140                  | 150              | 710                   | 730               |
| 1,3-Dichlorobenzene       | 140                  | Not Detected     | 870                   | Not Detected      |
| 1,4-Dichlorobenzene       | 140                  | Not Detected     | 870                   | Not Detected      |
| alpha-Chlorotoluene       | 140                  | Not Detected     | 750                   | Not Detected      |
| 1,2-Dichlorobenzene       | 140                  | Not Detected     | 870                   | Not Detected      |
| 1,2,4-Trichlorobenzene    | 580                  | Not Detected     | 4300                  | Not Detected      |
| Hexachlorobutadiene       | 580                  | Not Detected     | 6200                  | Not Detected      |

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 112       | 70-130           |
| 4-Bromofluorobenzene  | 98        | 70-130           |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-13-C-060408

Lab ID#: 0806099A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 6061714 | Date of Collection: | 6/1/08           |
| Dis. Factor: | 269     | Date of Analysis:   | 6/17/08 07:51 PM |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| Freon 12                         | 130               | Not Detected  | 660                | Not Detected   |
| Freon 114                        | 130               | Not Detected  | 940                | Not Detected   |
| Chloromethane                    | 540               | Not Detected  | 1100               | Not Detected   |
| Vinyl Chloride                   | 130               | Not Detected  | 340                | Not Detected   |
| 1,3-Butadiene                    | 130               | Not Detected  | 300                | Not Detected   |
| Bromomethane                     | 130               | Not Detected  | 520                | Not Detected   |
| Chloroethane                     | 130               | Not Detected  | 350                | Not Detected   |
| Freon 11                         | 130               | Not Detected  | 760                | Not Detected   |
| Ethanol                          | 540               | Not Detected  | 1000               | Not Detected   |
| Freon 113                        | 130               | Not Detected  | 1000               | Not Detected   |
| 1,1-Dichloroethene               | 130               | Not Detected  | 530                | Not Detected   |
| Acetone                          | 540               | 2800          | 1300               | 6700           |
| 2-Propanol                       | 540               | >200          | 1300               | 700000 E       |
| Carbon Disulfide                 | 130               | Not Detected  | 420                | Not Detected   |
| 3-Chloropropene                  | 540               | Not Detected  | 1700               | Not Detected   |
| Methylene Chloride               | 130               | Not Detected  | 470                | Not Detected   |
| Methyl tert-butyl ether          | 130               | Not Detected  | 480                | Not Detected   |
| trans-1,2-Dichloroethene         | 130               | Not Detected  | 530                | Not Detected   |
| Hexane                           | 130               | Not Detected  | 470                | Not Detected   |
| 1,1-Dichloroethane               | 130               | Not Detected  | 540                | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 130               | Not Detected  | 400                | Not Detected   |
| cis-1,2-Dichloroethene           | 130               | Not Detected  | 530                | Not Detected   |
| Tetrahydrofuran                  | 130               | Not Detected  | 400                | Not Detected   |
| Chloroform                       | 130               | Not Detected  | 660                | Not Detected   |
| 1,1,1-Trichloroethane            | 130               | Not Detected  | 730                | Not Detected   |
| Cyclohexane                      | 130               | Not Detected  | 460                | Not Detected   |
| Carbon Tetrachloride             | 130               | Not Detected  | 850                | Not Detected   |
| 2,2,4-Trimethylpentane           | 130               | Not Detected  | 630                | Not Detected   |
| Benzene                          | 130               | Not Detected  | 430                | Not Detected   |
| 1,2-Dichloroethane               | 130               | Not Detected  | 540                | Not Detected   |
| Heptane                          | 130               | Not Detected  | 550                | Not Detected   |
| Trichloroethene                  | 130               | Not Detected  | 720                | Not Detected   |
| 1,2-Dichloropropane              | 130               | Not Detected  | 620                | Not Detected   |
| 1,4-Dioxane                      | 540               | Not Detected  | 1900               | Not Detected   |
| Bromodichloromethane             | 130               | Not Detected  | 900                | Not Detected   |
| cis-1,3-Dichloropropene          | 130               | Not Detected  | 610                | Not Detected   |
| 4-Methyl-2-pentanone             | 130               | Not Detected  | 550                | Not Detected   |
| Toluene                          | 130               | Not Detected  | 510                | Not Detected   |
| trans-1,3-Dichloropropene        | 130               | Not Detected  | 610                | Not Detected   |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-13-C-060408

Lab ID#: 0806099A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                    |
|--------------|---------|------------------------------------|
| File Name:   | b061714 | Date of Collection: 6/4/08         |
| Dil. Factor: | 269     | Date of Analysis: 6/17/08 07:51 PM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|-------------------|---------------|--------------------|----------------|
| 1,1,2-Trichloroethane     | 130               | Not Detected  | 730                | Not Detected   |
| Tetrachloroethene         | 130               | Not Detected  | 910                | Not Detected   |
| 2-Hexanone                | 540               | Not Detected  | 2200               | Not Detected   |
| Dibromochloromethane      | 130               | Not Detected  | 1100               | Not Detected   |
| 1,2-Dibromoethane (EDB)   | 130               | Not Detected  | 1000               | Not Detected   |
| Chlorobenzene             | 130               | Not Detected  | 620                | Not Detected   |
| Ethyl Benzene             | 130               | Not Detected  | 580                | Not Detected   |
| m,p-Xylene                | 130               | Not Detected  | 580                | Not Detected   |
| o-Xylene                  | 130               | Not Detected  | 580                | Not Detected   |
| Styrene                   | 130               | Not Detected  | 570                | Not Detected   |
| Bromoform                 | 130               | Not Detected  | 1400               | Not Detected   |
| Cumene                    | 130               | Not Detected  | 660                | Not Detected   |
| 1,1,2,2-Tetrachloroethane | 130               | Not Detected  | 920                | Not Detected   |
| Propylbenzene             | 130               | Not Detected  | 660                | Not Detected   |
| 4-Ethyltoluene            | 130               | Not Detected  | 660                | Not Detected   |
| 1,3,5-Trimethylbenzene    | 130               | Not Detected  | 660                | Not Detected   |
| 1,2,4-Trimethylbenzene    | 130               | Not Detected  | 660                | Not Detected   |
| 1,3-Dichlorobenzene       | 130               | Not Detected  | 810                | Not Detected   |
| 1,4-Dichlorobenzene       | 130               | Not Detected  | 810                | Not Detected   |
| alpha-Chlorotoluene       | 130               | Not Detected  | 700                | Not Detected   |
| 1,2-Dichlorobenzene       | 130               | Not Detected  | 810                | Not Detected   |
| 1,2,4-Trichlorobenzene    | 540               | Not Detected  | 4000               | Not Detected   |
| Hexachlorobutadiene       | 540               | Not Detected  | 5700               | Not Detected   |

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 99        | 70-130        |
| 1,2-Dichloroethane-d4 | 115       | 70-130        |
| 4-Bromofluorobenzene  | 100       | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-13-D-060408

Lab ID#: 0806099A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|                     |                |                            |                         |
|---------------------|----------------|----------------------------|-------------------------|
| <b>File Name:</b>   | <b>b061710</b> | <b>Date of Collection:</b> | <b>6/4/08</b>           |
| <b>Dil. Factor:</b> | <b>289</b>     | <b>Date of Analysis:</b>   | <b>6/17/08 04:27 PM</b> |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12                         | 140                  | Not Detected     | 710                   | Not Detected      |
| Freon 114                        | 140                  | Not Detected     | 1000                  | Not Detected      |
| Chloromethane                    | 580                  | Not Detected     | 1200                  | Not Detected      |
| Vinyl Chloride                   | 140                  | Not Detected     | 370                   | Not Detected      |
| 1,3-Butadiene                    | 140                  | Not Detected     | 320                   | Not Detected      |
| Bromomethane                     | 140                  | Not Detected     | 560                   | Not Detected      |
| Chloroethane                     | 140                  | Not Detected     | 380                   | Not Detected      |
| Freon 11                         | 140                  | Not Detected     | 810                   | Not Detected      |
| Ethanol                          | 580                  | Not Detected     | 1100                  | Not Detected      |
| Freon 113                        | 140                  | Not Detected     | 1100                  | Not Detected      |
| 1,1-Dichloroethene               | 140                  | Not Detected     | 570                   | Not Detected      |
| Acetone                          | 580                  | Not Detected     | 1400                  | Not Detected      |
| 2-Propanol                       | 580                  | 38000            | 1400                  | 94000             |
| Carbon Disulfide                 | 140                  | Not Detected     | 450                   | Not Detected      |
| 3-Chloropropene                  | 580                  | Not Detected     | 1800                  | Not Detected      |
| Methylene Chloride               | 140                  | Not Detected     | 500                   | Not Detected      |
| Methyl tert-butyl ether          | 140                  | Not Detected     | 520                   | Not Detected      |
| trans-1,2-Dichloroethene         | 140                  | Not Detected     | 570                   | Not Detected      |
| Hexane                           | 140                  | Not Detected     | 510                   | Not Detected      |
| 1,1-Dichloroethane               | 140                  | Not Detected     | 580                   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 140                  | Not Detected     | 430                   | Not Detected      |
| cis-1,2-Dichloroethene           | 140                  | Not Detected     | 570                   | Not Detected      |
| Tetrahydrofuran                  | 140                  | 200              | 430                   | 590               |
| Chloroform                       | 140                  | Not Detected     | 700                   | Not Detected      |
| 1,1,1-Trichloroethane            | 140                  | Not Detected     | 790                   | Not Detected      |
| Cyclohexane                      | 140                  | Not Detected     | 500                   | Not Detected      |
| Carbon Tetrachloride             | 140                  | Not Detected     | 910                   | Not Detected      |
| 2,2,4-Trimethylpentane           | 140                  | Not Detected     | 680                   | Not Detected      |
| Benzene                          | 140                  | Not Detected     | 460                   | Not Detected      |
| 1,2-Dichloroethane               | 140                  | Not Detected     | 580                   | Not Detected      |
| Heptane                          | 140                  | Not Detected     | 590                   | Not Detected      |
| Trichloroethene                  | 140                  | Not Detected     | 780                   | Not Detected      |
| 1,2-Dichloropropane              | 140                  | Not Detected     | 670                   | Not Detected      |
| 1,4-Dioxane                      | 580                  | Not Detected     | 2100                  | Not Detected      |
| Bromodichloromethane             | 140                  | Not Detected     | 970                   | Not Detected      |
| cis-1,3-Dichloropropene          | 140                  | Not Detected     | 660                   | Not Detected      |
| 4-Methyl-2-pentanone             | 140                  | Not Detected     | 590                   | Not Detected      |
| Toluene                          | 140                  | Not Detected     | 540                   | Not Detected      |
| trans-1,3-Dichloropropene        | 140                  | Not Detected     | 660                   | Not Detected      |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-13-D-060408

Lab ID#: 0806099A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | b061710 | Date of Collection: | 6/4/08           |
| Dil. Factor: | 289     | Date of Analysis:   | 6/17/08 04:27 PM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---------------------------|-------------------|---------------|--------------------|----------------|
| 1,1,2-Trichloroethane     | 140               | Not Detected  | 790                | Not Detected   |
| Tetrachloroethene         | 140               | Not Detected  | 980                | Not Detected   |
| 2-Hexanone                | 580               | Not Detected  | 2400               | Not Detected   |
| Dibromochloromethane      | 140               | Not Detected  | 1200               | Not Detected   |
| 1,2-Dibromoethane (EDB)   | 140               | Not Detected  | 1100               | Not Detected   |
| Chlorobenzene             | 140               | Not Detected  | 660                | Not Detected   |
| Ethyl Benzene             | 140               | Not Detected  | 630                | Not Detected   |
| m,p-Xylene                | 140               | Not Detected  | 630                | Not Detected   |
| o-Xylene                  | 140               | Not Detected  | 630                | Not Detected   |
| Styrene                   | 140               | Not Detected  | 620                | Not Detected   |
| Bromoform                 | 140               | Not Detected  | 1500               | Not Detected   |
| Cumene                    | 140               | Not Detected  | 710                | Not Detected   |
| 1,1,2,2-Tetrachloroethane | 140               | Not Detected  | 990                | Not Detected   |
| Propylbenzene             | 140               | Not Detected  | 710                | Not Detected   |
| 4-Ethyltoluene            | 140               | Not Detected  | 710                | Not Detected   |
| 1,3,5-Trimethylbenzene    | 140               | Not Detected  | 710                | Not Detected   |
| 1,2,4-Trimethylbenzene    | 140               | Not Detected  | 710                | Not Detected   |
| 1,3-Dichlorobenzene       | 140               | Not Detected  | 870                | Not Detected   |
| 1,4-Dichlorobenzene       | 140               | Not Detected  | 870                | Not Detected   |
| alpha-Chlorotoluene       | 140               | Not Detected  | 750                | Not Detected   |
| 1,2-Dichlorobenzene       | 140               | Not Detected  | 870                | Not Detected   |
| 1,2,4-Trichlorobenzene    | 580               | Not Detected  | 4300               | Not Detected   |
| Hexachlorobutadiene       | 580               | Not Detected  | 6200               | Not Detected   |

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 101       | 70-130        |
| 1,2-Dichloroethane-d4 | 115       | 70-130        |
| 4-Bromofluorobenzene  | 99        | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-A-060408

Lab ID#: 0806099A-05A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

|            |         |                    |                    |
|------------|---------|--------------------|--------------------|
| File Name  | 6061625 | Date of Collection | 6/1/08             |
| Dil Factor | 113     | Date of Analysis   | 6/17/08 (05:38 AM) |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv)               | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|-----------------------------|--------------------|----------------|
| Freon 12                         | 5.6               | Not Detected                | 28                 | Not Detected   |
| Freon 114                        | 5.6               | Not Detected                | 39                 | Not Detected   |
| Chloromethane                    | 23                | Not Detected                | 47                 | Not Detected   |
| Vinyl Chloride                   | 5.6               | Not Detected                | 14                 | Not Detected   |
| 1,3-Butadiene                    | 5.6               | Not Detected                | 12                 | Not Detected   |
| Bromomethane                     | 5.6               | Not Detected                | 22                 | Not Detected   |
| Chloroethane                     | 5.6               | Not Detected                | 15                 | Not Detected   |
| Freon 11                         | 5.6               | Not Detected                | 32                 | Not Detected   |
| Ethanol                          | 23                | 610                         | 42                 | 1200           |
| Freon 113                        | 5.6               | Not Detected                | 43                 | Not Detected   |
| 1,1-Dichloroethene               | 5.6               | Not Detected                | 22                 | Not Detected   |
| Acetone                          | 23                | 71                          | 54                 | 170            |
| 2-Propanol                       | 23                | > 200 <del>2000</del> E "J" | 56                 | 7000 E         |
| Carbon Disulfide                 | 5.6               | Not Detected                | 18                 | Not Detected   |
| 3-Chloropropene                  | 23                | Not Detected                | 71                 | Not Detected   |
| Methylene Chloride               | 5.6               | Not Detected                | 20                 | Not Detected   |
| Methyl tert-butyl ether          | 5.6               | Not Detected                | 20                 | Not Detected   |
| trans-1,2-Dichloroethene         | 5.6               | Not Detected                | 22                 | Not Detected   |
| Hexane                           | 5.6               | Not Detected                | 20                 | Not Detected   |
| 1,1-Dichloroethane               | 5.6               | Not Detected                | 23                 | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 5.6               | Not Detected                | 17                 | Not Detected   |
| cis-1,2-Dichloroethene           | 5.6               | Not Detected                | 22                 | Not Detected   |
| Tetrahydrofuran                  | 5.6               | 6.2                         | 17                 | 18             |
| Chloroform                       | 5.6               | Not Detected                | 28                 | Not Detected   |
| 1,1,1-Trichloroethane            | 5.6               | Not Detected                | 31                 | Not Detected   |
| Cyclohexane                      | 5.6               | Not Detected                | 19                 | Not Detected   |
| Carbon Tetrachloride             | 5.6               | Not Detected                | 36                 | Not Detected   |
| 2,2,4-Trimethylpentane           | 5.6               | Not Detected                | 26                 | Not Detected   |
| Benzene                          | 5.6               | Not Detected                | 18                 | Not Detected   |
| 1,2-Dichloroethane               | 5.6               | Not Detected                | 23                 | Not Detected   |
| Heptane                          | 5.6               | Not Detected                | 23                 | Not Detected   |
| Trichloroethene                  | 5.6               | Not Detected                | 30                 | Not Detected   |
| 1,2-Dichloropropane              | 5.6               | Not Detected                | 26                 | Not Detected   |
| 1,4-Dioxane                      | 23                | Not Detected                | 81                 | Not Detected   |
| Bromodichloromethane             | 5.6               | Not Detected                | 38                 | Not Detected   |
| cis-1,3-Dichloropropene          | 5.6               | Not Detected                | 26                 | Not Detected   |
| 4-Methyl-2-pentanone             | 5.6               | Not Detected                | 23                 | Not Detected   |
| Toluene                          | 5.6               | 12                          | 21                 | 46             |
| trans-1,3-Dichloropropene        | 5.6               | Not Detected                | 26                 | Not Detected   |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-A-060408

Lab ID#: 0806099A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | b061625 | Date of Collection: | 6/4/08           |
| Dil. Factor: | 11.3    | Date of Analysis:   | 6/17/08 05:38 AM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---------------------------|-------------------|---------------|--------------------|----------------|
| 1,1,2-Trichloroethane     | 5.6               | Not Detected  | 31                 | Not Detected   |
| Tetrachloroethene         | 5.6               | Not Detected  | 38                 | Not Detected   |
| 2-Hexanone                | 23                | Not Detected  | 92                 | Not Detected   |
| Dibromochloromethane      | 5.6               | Not Detected  | 48                 | Not Detected   |
| 1,2-Dibromoethane (EDB)   | 5.6               | Not Detected  | 43                 | Not Detected   |
| Chlorobenzene             | 5.6               | Not Detected  | 26                 | Not Detected   |
| Ethyl Benzene             | 5.6               | Not Detected  | 24                 | Not Detected   |
| m,p-Xylene                | 5.6               | Not Detected  | 24                 | Not Detected   |
| o-Xylene                  | 5.6               | Not Detected  | 24                 | Not Detected   |
| Styrene                   | 5.6               | Not Detected  | 24                 | Not Detected   |
| Bromoform                 | 5.6               | Not Detected  | 58                 | Not Detected   |
| Cumene                    | 5.6               | Not Detected  | 28                 | Not Detected   |
| 1,1,2,2-Tetrachloroethane | 5.6               | Not Detected  | 39                 | Not Detected   |
| Propylbenzene             | 5.6               | Not Detected  | 28                 | Not Detected   |
| 4-Ethyltoluene            | 5.6               | Not Detected  | 28                 | Not Detected   |
| 1,3,5-Trimethylbenzene    | 5.6               | Not Detected  | 28                 | Not Detected   |
| 1,2,4-Trimethylbenzene    | 5.6               | Not Detected  | 28                 | Not Detected   |
| 1,3-Dichlorobenzene       | 5.6               | 12            | 34                 | 73             |
| 1,4-Dichlorobenzene       | 5.6               | Not Detected  | 34                 | Not Detected   |
| alpha-Chlorotoluene       | 5.6               | Not Detected  | 29                 | Not Detected   |
| 1,2-Dichlorobenzene       | 5.6               | Not Detected  | 34                 | Not Detected   |
| 1,2,4-Trichlorobenzene    | 23                | Not Detected  | 170                | Not Detected   |
| Hexachlorobutadiene       | 23                | Not Detected  | 240                | Not Detected   |

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 100       | 70-130        |
| 1,2-Dichloroethane-d4 | 108       | 70-130        |
| 4-Bromofluorobenzene  | 96        | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-B-060408

Lab ID#: 0806099A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|            |         |                     |                  |
|------------|---------|---------------------|------------------|
| File Name: | 8061626 | Date of Collection: | 6/4/08           |
| Disk File: | 5731    | Date of Analysis:   | 6/17/08 06:16 AM |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv)     | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|-------------------|--------------------|----------------|
| Freon 12                         | 2.9               | Not Detected      | 14                 | Not Detected   |
| Freon 114                        | 2.9               | Not Detected      | 20                 | Not Detected   |
| Chloromethane                    | 12                | Not Detected      | 24                 | Not Detected   |
| Vinyl Chloride                   | 2.9               | Not Detected      | 7.4                | Not Detected   |
| 1,3-Butadiene                    | 2.9               | Not Detected      | 6.4                | Not Detected   |
| Bromomethane                     | 2.9               | Not Detected      | 11                 | Not Detected   |
| Chloroethane                     | 2.9               | Not Detected      | 7.6                | Not Detected   |
| Freon 11                         | 2.9               | Not Detected      | 16                 | Not Detected   |
| Ethanol                          | 12                | 550               | 22                 | 1000           |
| Freon 113                        | 2.9               | Not Detected      | 22                 | Not Detected   |
| 1,1-Dichloroethene               | 2.9               | Not Detected      | 11                 | Not Detected   |
| Acetone                          | 12                | 180               | 27                 | 440            |
| 2-Propanol                       | 12                | >200 - 1000 E "J" | 28                 | 4000 E         |
| Carbon Disulfide                 | 2.9               | Not Detected      | 9.0                | Not Detected   |
| 3-Chloropropene                  | 12                | Not Detected      | 36                 | Not Detected   |
| Methylene Chloride               | 2.9               | Not Detected      | 10                 | Not Detected   |
| Methyl tert-butyl ether          | 2.9               | Not Detected      | 10                 | Not Detected   |
| trans-1,2-Dichloroethene         | 2.9               | Not Detected      | 11                 | Not Detected   |
| Hexane                           | 2.9               | Not Detected      | 10                 | Not Detected   |
| 1,1-Dichloroethane               | 2.9               | Not Detected      | 12                 | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 2.9               | 17                | 8.5                | 51             |
| cis-1,2-Dichloroethene           | 2.9               | Not Detected      | 11                 | Not Detected   |
| Tetrahydrofuran                  | 2.9               | 3.6               | 8.5                | 11             |
| Chloroform                       | 2.9               | Not Detected      | 14                 | Not Detected   |
| 1,1,1-Trichloroethane            | 2.9               | Not Detected      | 16                 | Not Detected   |
| Cyclohexane                      | 2.9               | Not Detected      | 9.9                | Not Detected   |
| Carbon Tetrachloride             | 2.9               | Not Detected      | 18                 | Not Detected   |
| 2,2,4-Trimethylpentane           | 2.9               | Not Detected      | 14                 | Not Detected   |
| Benzene                          | 2.9               | Not Detected      | 9.2                | Not Detected   |
| 1,2-Dichloroethane               | 2.9               | Not Detected      | 12                 | Not Detected   |
| Heptane                          | 2.9               | Not Detected      | 12                 | Not Detected   |
| Trichloroethene                  | 2.9               | Not Detected      | 16                 | Not Detected   |
| 1,2-Dichloropropane              | 2.9               | Not Detected      | 13                 | Not Detected   |
| 1,4-Dioxane                      | 12                | Not Detected      | 42                 | Not Detected   |
| Bromodichloromethane             | 2.9               | Not Detected      | 19                 | Not Detected   |
| cis-1,3-Dichloropropene          | 2.9               | Not Detected      | 13                 | Not Detected   |
| 4-Methyl-2-pentanone             | 2.9               | Not Detected      | 12                 | Not Detected   |
| Toluene                          | 2.9               | 9.9               | 11                 | 37             |
| trans-1,3-Dichloropropene        | 2.9               | Not Detected      | 13                 | Not Detected   |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-B-060408

Lab ID#: 0806099A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | b061626 | Date of Collection: | 6/4/08           |
| Dil. Factor: | 5.78    | Date of Analysis:   | 6/17/08 06:16 AM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---------------------------|-------------------|---------------|--------------------|----------------|
| 1,1,2-Trichloroethane     | 2.9               | Not Detected  | 16                 | Not Detected   |
| Tetrachloroethene         | 2.9               | Not Detected  | 20                 | Not Detected   |
| 2-Hexanone                | 12                | Not Detected  | 47                 | Not Detected   |
| Dibromochloromethane      | 2.9               | Not Detected  | 25                 | Not Detected   |
| 1,2-Dibromoethane (EDB)   | 2.9               | Not Detected  | 22                 | Not Detected   |
| Chlorobenzene             | 2.9               | Not Detected  | 13                 | Not Detected   |
| Ethyl Benzene             | 2.9               | Not Detected  | 12                 | Not Detected   |
| m,p-Xylene                | 2.9               | Not Detected  | 12                 | Not Detected   |
| o-Xylene                  | 2.9               | Not Detected  | 12                 | Not Detected   |
| Styrene                   | 2.9               | Not Detected  | 12                 | Not Detected   |
| Bromoform                 | 2.9               | Not Detected  | 30                 | Not Detected   |
| Cumene                    | 2.9               | Not Detected  | 14                 | Not Detected   |
| 1,1,1,2-Tetrachloroethane | 2.9               | Not Detected  | 20                 | Not Detected   |
| Propylbenzene             | 2.9               | Not Detected  | 14                 | Not Detected   |
| 4-Ethyltoluene            | 2.9               | Not Detected  | 14                 | Not Detected   |
| 1,3,5-Trimethylbenzene    | 2.9               | Not Detected  | 14                 | Not Detected   |
| 1,2,4-Trimethylbenzene    | 2.9               | Not Detected  | 14                 | Not Detected   |
| 1,3-Dichlorobenzene       | 2.9               | 11            | 17                 | 69             |
| 1,4-Dichlorobenzene       | 2.9               | Not Detected  | 17                 | Not Detected   |
| alpha-Chlorotoluene       | 2.9               | Not Detected  | 15                 | Not Detected   |
| 1,2-Dichlorobenzene       | 2.9               | Not Detected  | 17                 | Not Detected   |
| 1,2,4-Trichlorobenzene    | 12                | Not Detected  | 86                 | Not Detected   |
| Hexachlorobutadiene       | 12                | Not Detected  | 120                | Not Detected   |

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 100       | 70-130        |
| 1,2-Dichloroethane-d4 | 108       | 70-130        |
| 4-Bromofluorobenzene  | 97        | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-C-060408

Lab ID#: 0806099A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|            |         |                    |                 |
|------------|---------|--------------------|-----------------|
| File Name  | 0060712 | Date of Collection | 6/4/08          |
| Div Factor | 289     | Date of Analysis   | 6/17/08 06:24PM |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv)     | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|-------------------|--------------------|----------------|
| Freon 12                         | 140               | Not Detected      | 710                | Not Detected   |
| Freon 114                        | 140               | Not Detected      | 1000               | Not Detected   |
| Chloromethane                    | 580               | Not Detected      | 1200               | Not Detected   |
| Vinyl Chloride                   | 140               | Not Detected      | 370                | Not Detected   |
| 1,3-Butadiene                    | 140               | Not Detected      | 320                | Not Detected   |
| Bromomethane                     | 140               | Not Detected      | 560                | Not Detected   |
| Chloroethane                     | 140               | Not Detected      | 380                | Not Detected   |
| Freon 11                         | 140               | Not Detected      | 810                | Not Detected   |
| Ethanol                          | 580               | Not Detected      | 1100               | Not Detected   |
| Freon 113                        | 140               | Not Detected      | 1100               | Not Detected   |
| 1,1-Dichloroethene               | 140               | Not Detected      | 570                | Not Detected   |
| Acetone                          | 580               | 1000              | 1400               | 2500           |
| 2-Propanol                       | 580               | >200 120000 E "J" | 1400               | 280000 E       |
| Carbon Disulfide                 | 140               | Not Detected      | 450                | Not Detected   |
| 3-Chloropropene                  | 580               | Not Detected      | 1800               | Not Detected   |
| Methylene Chloride               | 140               | Not Detected      | 500                | Not Detected   |
| Methyl tert-butyl ether          | 140               | Not Detected      | 520                | Not Detected   |
| trans-1,2-Dichloroethene         | 140               | Not Detected      | 570                | Not Detected   |
| Hexane                           | 140               | Not Detected      | 510                | Not Detected   |
| 1,1-Dichloroethane               | 140               | Not Detected      | 580                | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 140               | Not Detected      | 430                | Not Detected   |
| cis-1,2-Dichloroethene           | 140               | Not Detected      | 570                | Not Detected   |
| Tetrahydrofuran                  | 140               | Not Detected      | 430                | Not Detected   |
| Chloroform                       | 140               | Not Detected      | 700                | Not Detected   |
| 1,1,1-Trichloroethane            | 140               | Not Detected      | 790                | Not Detected   |
| Cyclohexane                      | 140               | Not Detected      | 500                | Not Detected   |
| Carbon Tetrachloride             | 140               | Not Detected      | 910                | Not Detected   |
| 2,2,4-Trimethylpentane           | 140               | Not Detected      | 680                | Not Detected   |
| Benzene                          | 140               | Not Detected      | 460                | Not Detected   |
| 1,2-Dichloroethane               | 140               | Not Detected      | 580                | Not Detected   |
| Heptane                          | 140               | Not Detected      | 590                | Not Detected   |
| Trichloroethene                  | 140               | Not Detected      | 780                | Not Detected   |
| 1,2-Dichloropropane              | 140               | Not Detected      | 670                | Not Detected   |
| 1,4-Dioxane                      | 580               | Not Detected      | 2100               | Not Detected   |
| Bromodichloromethane             | 140               | Not Detected      | 970                | Not Detected   |
| cis-1,3-Dichloropropene          | 140               | Not Detected      | 660                | Not Detected   |
| 4-Methyl-2-pentanone             | 140               | Not Detected      | 590                | Not Detected   |
| Toluene                          | 140               | Not Detected      | 540                | Not Detected   |
| trans-1,3-Dichloropropene        | 140               | Not Detected      | 660                | Not Detected   |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-C-060408

Lab ID#: 0806099A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|             |         |                     |                  |
|-------------|---------|---------------------|------------------|
| File Name:  | b061712 | Date of Collection: | 6/4/08           |
| DJ: Factor: | 289     | Date of Analysis:   | 6/17/08 06:24 PM |

| Compound                  | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| 1,1,2-Trichloroethane     | 140                  | Not Detected     | 790                   | Not Detected      |
| Tetrachloroethene         | 140                  | Not Detected     | 980                   | Not Detected      |
| 2-Hexanone                | 580                  | Not Detected     | 2400                  | Not Detected      |
| Dibromochloromethane      | 140                  | Not Detected     | 1200                  | Not Detected      |
| 1,2-Dibromoethane (EDB)   | 140                  | Not Detected     | 1100                  | Not Detected      |
| Chlorobenzene             | 140                  | Not Detected     | 660                   | Not Detected      |
| Ethyl Benzene             | 140                  | Not Detected     | 630                   | Not Detected      |
| m,p-Xylene                | 140                  | Not Detected     | 630                   | Not Detected      |
| o-Xylene                  | 140                  | Not Detected     | 630                   | Not Detected      |
| Styrene                   | 140                  | Not Detected     | 620                   | Not Detected      |
| Bromoform                 | 140                  | Not Detected     | 1500                  | Not Detected      |
| Cumene                    | 140                  | Not Detected     | 710                   | Not Detected      |
| 1,1,2,2-Tetrachloroethane | 140                  | Not Detected     | 990                   | Not Detected      |
| Propylbenzene             | 140                  | Not Detected     | 710                   | Not Detected      |
| 4-Ethyltoluene            | 140                  | Not Detected     | 710                   | Not Detected      |
| 1,3,5-Trimethylbenzene    | 140                  | Not Detected     | 710                   | Not Detected      |
| 1,2,4-Trimethylbenzene    | 140                  | Not Detected     | 710                   | Not Detected      |
| 1,3-Dichlorobenzene       | 140                  | Not Detected     | 870                   | Not Detected      |
| 1,4-Dichlorobenzene       | 140                  | Not Detected     | 870                   | Not Detected      |
| alpha-Chlorotoluene       | 140                  | Not Detected     | 750                   | Not Detected      |
| 1,2-Dichlorobenzene       | 140                  | Not Detected     | 870                   | Not Detected      |
| 1,2,4-Trichlorobenzene    | 580                  | Not Detected     | 4300                  | Not Detected      |
| Hexachlorobutadiene       | 580                  | Not Detected     | 6200                  | Not Detected      |

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 112       | 70-130           |
| 4-Bromofluorobenzene  | 100       | 70-130           |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-C-060408-DUP

Lab ID#: 0806099A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |        |                     |                  |
|--------------|--------|---------------------|------------------|
| File Name:   | 806171 | Date of Collection: | 6/4/08           |
| Dil. Factor: | 282    | Date of Analysis:   | 6/17/08 05:33 PM |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv)      | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|--------------------|--------------------|----------------|
| Freon 12                         | 140               | Not Detected       | 700                | Not Detected   |
| Freon 114                        | 140               | Not Detected       | 980                | Not Detected   |
| Chloromethane                    | 560               | Not Detected       | 1200               | Not Detected   |
| Vinyl Chloride                   | 140               | Not Detected       | 360                | Not Detected   |
| 1,3-Butadiene                    | 140               | Not Detected       | 310                | Not Detected   |
| Bromomethane                     | 140               | Not Detected       | 550                | Not Detected   |
| Chloroethane                     | 140               | Not Detected       | 370                | Not Detected   |
| Freon 11                         | 140               | Not Detected       | 790                | Not Detected   |
| Ethanol                          | 560               | Not Detected       | 1100               | Not Detected   |
| Freon 113                        | 140               | Not Detected       | 1100               | Not Detected   |
| 1,1-Dichloroethene               | 140               | Not Detected       | 560                | Not Detected   |
| Acetone                          | 560               | 1300               | 1300               | 3000           |
| 2-Propanol                       | 560               | >200 - 94000 E "J" | 1400               | 230000 E       |
| Carbon Disulfide                 | 140               | Not Detected       | 440                | Not Detected   |
| 3-Chloropropene                  | 560               | Not Detected       | 1800               | Not Detected   |
| Methylene Chloride               | 140               | Not Detected       | 490                | Not Detected   |
| Methyl tert-butyl ether          | 140               | Not Detected       | 510                | Not Detected   |
| trans-1,2-Dichloroethene         | 140               | Not Detected       | 560                | Not Detected   |
| Hexane                           | 140               | Not Detected       | 500                | Not Detected   |
| 1,1-Dichloroethane               | 140               | Not Detected       | 570                | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 140               | Not Detected       | 420                | Not Detected   |
| cis-1,2-Dichloroethene           | 140               | Not Detected       | 560                | Not Detected   |
| Tetrahydrofuran                  | 140               | 140                | 420                | 420            |
| Chloroform                       | 140               | Not Detected       | 690                | Not Detected   |
| 1,1,1-Trichloroethane            | 140               | Not Detected       | 770                | Not Detected   |
| Cyclohexane                      | 140               | Not Detected       | 480                | Not Detected   |
| Carbon Tetrachloride             | 140               | Not Detected       | 890                | Not Detected   |
| 2,2,4-Trimethylpentane           | 140               | Not Detected       | 660                | Not Detected   |
| Benzene                          | 140               | Not Detected       | 450                | Not Detected   |
| 1,2-Dichloroethane               | 140               | Not Detected       | 570                | Not Detected   |
| Heptane                          | 140               | Not Detected       | 580                | Not Detected   |
| Trichloroethene                  | 140               | Not Detected       | 760                | Not Detected   |
| 1,2-Dichloropropane              | 140               | Not Detected       | 650                | Not Detected   |
| 1,4-Dioxane                      | 560               | Not Detected       | 2000               | Not Detected   |
| Bromodichloromethane             | 140               | Not Detected       | 940                | Not Detected   |
| cis-1,3-Dichloropropene          | 140               | Not Detected       | 640                | Not Detected   |
| 4-Methyl-2-pentanone             | 140               | Not Detected       | 580                | Not Detected   |
| Toluene                          | 140               | Not Detected       | 530                | Not Detected   |
| trans-1,3-Dichloropropene        | 140               | Not Detected       | 640                | Not Detected   |

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-C-060408-DUP

Lab ID#: 0806099A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | b061711 | Date of Collection: | 6/4/08           |
| Dil. Factor: | 282     | Date of Analysis:   | 6/17/08 05:33 PM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---------------------------|-------------------|---------------|--------------------|----------------|
| 1,1,2-Trichloroethane     | 140               | Not Detected  | 770                | Not Detected   |
| Tetrachloroethene         | 140               | Not Detected  | 960                | Not Detected   |
| 2-Hexanone                | 560               | Not Detected  | 2300               | Not Detected   |
| Dibromochloromethane      | 140               | Not Detected  | 1200               | Not Detected   |
| 1,2-Dibromoethane (EDB)   | 140               | Not Detected  | 1100               | Not Detected   |
| Chlorobenzene             | 140               | Not Detected  | 650                | Not Detected   |
| Ethyl Benzene             | 140               | Not Detected  | 610                | Not Detected   |
| m,p-Xylene                | 140               | Not Detected  | 610                | Not Detected   |
| o-Xylene                  | 140               | Not Detected  | 610                | Not Detected   |
| Styrene                   | 140               | Not Detected  | 600                | Not Detected   |
| Bromoform                 | 140               | Not Detected  | 1400               | Not Detected   |
| Cumene                    | 140               | Not Detected  | 690                | Not Detected   |
| 1,1,2,2-Tetrachloroethane | 140               | Not Detected  | 970                | Not Detected   |
| Propylbenzene             | 140               | Not Detected  | 690                | Not Detected   |
| 4-Ethyltoluene            | 140               | Not Detected  | 690                | Not Detected   |
| 1,3,5-Trimethylbenzene    | 140               | Not Detected  | 690                | Not Detected   |
| 1,2,4-Trimethylbenzene    | 140               | Not Detected  | 690                | Not Detected   |
| 1,3-Dichlorobenzene       | 140               | Not Detected  | 850                | Not Detected   |
| 1,4-Dichlorobenzene       | 140               | Not Detected  | 850                | Not Detected   |
| alpha-Chlorotoluene       | 140               | Not Detected  | 730                | Not Detected   |
| 1,2-Dichlorobenzene       | 140               | Not Detected  | 850                | Not Detected   |
| 1,2,4-Trichlorobenzene    | 560               | Not Detected  | 4200               | Not Detected   |
| Hexachlorobutadiene       | 560               | Not Detected  | 6000               | Not Detected   |

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 98        | 70-130        |
| 1,2-Dichloroethane-d4 | 114       | 70-130        |
| 4-Bromofluorobenzene  | 99        | 70-130        |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-D-060408

Lab ID#: 0806099A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 0061708 | Date of Collection: | 6/4/08           |
| Dil. Factor: | 2.69    | Date of Analysis:   | 6/17/08 01:58 PM |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv)   | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------------------------------|-------------------|-----------------|--------------------|----------------|
| Freon 12                         | 1.3               | Not Detected    | 6.6                | Not Detected   |
| Freon 114                        | 1.3               | Not Detected    | 9.4                | Not Detected   |
| Chloromethane                    | 5.4               | Not Detected    | 11                 | Not Detected   |
| Vinyl Chloride                   | 1.3               | Not Detected    | 3.4                | Not Detected   |
| 1,3-Butadiene                    | 1.3               | Not Detected    | 3.0                | Not Detected   |
| Bromomethane                     | 1.3               | Not Detected    | 5.2                | Not Detected   |
| Chloroethane                     | 1.3               | Not Detected    | 3.5                | Not Detected   |
| Freon 11                         | 1.3               | Not Detected    | 7.6                | Not Detected   |
| Ethanol                          | 5.4               | 690 E           | 10                 | 1300 E         |
| Freon 113                        | 1.3               | Not Detected    | 10                 | Not Detected   |
| 1,1-Dichloroethene               | 1.3               | Not Detected    | 5.3                | Not Detected   |
| Acetone                          | 5.4               | 83              | 13                 | 200            |
| 2-Propanol                       | 5.4               | 7200 1900 E "J" | 13                 | 4600 E         |
| Carbon Disulfide                 | 1.3               | Not Detected    | 4.2                | Not Detected   |
| 3-Chloropropene                  | 5.4               | Not Detected    | 17                 | Not Detected   |
| Methylene Chloride               | 1.3               | Not Detected    | 4.7                | Not Detected   |
| Methyl tert-butyl ether          | 1.3               | Not Detected    | 4.8                | Not Detected   |
| trans-1,2-Dichloroethene         | 1.3               | Not Detected    | 5.3                | Not Detected   |
| Hexane                           | 1.3               | Not Detected    | 4.7                | Not Detected   |
| 1,1-Dichloroethane               | 1.3               | Not Detected    | 5.4                | Not Detected   |
| 2-Butanone (Methyl Ethyl Ketone) | 1.3               | 4.6             | 4.0                | 14             |
| cis-1,2-Dichloroethene           | 1.3               | Not Detected    | 5.3                | Not Detected   |
| Tetrahydrofuran                  | 1.3               | 3.7             | 4.0                | 11             |
| Chloroform                       | 1.3               | Not Detected    | 6.6                | Not Detected   |
| 1,1,1-Trichloroethane            | 1.3               | Not Detected    | 7.3                | Not Detected   |
| Cyclohexane                      | 1.3               | Not Detected    | 4.6                | Not Detected   |
| Carbon Tetrachloride             | 1.3               | Not Detected    | 8.5                | Not Detected   |
| 2,2,4-Trimethylpentane           | 1.3               | Not Detected    | 6.3                | Not Detected   |
| Benzene                          | 1.3               | Not Detected    | 4.3                | Not Detected   |
| 1,2-Dichloroethane               | 1.3               | Not Detected    | 5.4                | Not Detected   |
| Heptane                          | 1.3               | Not Detected    | 5.5                | Not Detected   |
| Trichloroethene                  | 1.3               | Not Detected    | 7.2                | Not Detected   |
| 1,2-Dichloropropane              | 1.3               | Not Detected    | 6.2                | Not Detected   |
| 1,4-Dioxane                      | 5.4               | Not Detected    | 19                 | Not Detected   |
| Bromodichloromethane             | 1.3               | Not Detected    | 9.0                | Not Detected   |
| cis-1,3-Dichloropropene          | 1.3               | Not Detected    | 6.1                | Not Detected   |
| 4-Methyl-2-pentanone             | 1.3               | Not Detected    | 5.5                | Not Detected   |
| Toluene                          | 1.3               | 10              | 5.1                | 39             |
| trans-1,3-Dichloropropene        | 1.3               | Not Detected    | 6.1                | Not Detected   |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-D-060408

Lab ID#: 0806099A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|             |         |                                    |
|-------------|---------|------------------------------------|
| File Name   | b061708 | Date of Collection: 6/4/08         |
| Dil. Factor | 2.69    | Date of Analysis: 6/17/08 01:58 PM |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---------------------------|-------------------|---------------|--------------------|----------------|
| 1,1,2-Trichloroethane     | 1.3               | Not Detected  | 7.3                | Not Detected   |
| Tetrachloroethene         | 1.3               | Not Detected  | 9.1                | Not Detected   |
| 2-Hexanone                | 5.4               | Not Detected  | 22                 | Not Detected   |
| Dibromochloromethane      | 1.3               | Not Detected  | 11                 | Not Detected   |
| 1,2-Dibromoethane (EDB)   | 1.3               | Not Detected  | 10                 | Not Detected   |
| Chlorobenzene             | 1.3               | Not Detected  | 6.2                | Not Detected   |
| Ethyl Benzene             | 1.3               | Not Detected  | 5.8                | Not Detected   |
| m,p-Xylene                | 1.3               | 2.2           | 5.8                | 9.4            |
| o-Xylene                  | 1.3               | Not Detected  | 5.8                | Not Detected   |
| Styrene                   | 1.3               | Not Detected  | 5.7                | Not Detected   |
| Bromoform                 | 1.3               | Not Detected  | 14                 | Not Detected   |
| Cumene                    | 1.3               | Not Detected  | 6.6                | Not Detected   |
| 1,1,2,2-Tetrachloroethane | 1.3               | Not Detected  | 9.2                | Not Detected   |
| Propylbenzene             | 1.3               | Not Detected  | 6.6                | Not Detected   |
| 4-Ethyltoluene            | 1.3               | Not Detected  | 6.6                | Not Detected   |
| 1,3,5-Trimethylbenzene    | 1.3               | Not Detected  | 6.6                | Not Detected   |
| 1,2,4-Trimethylbenzene    | 1.3               | Not Detected  | 6.6                | Not Detected   |
| 1,3-Dichlorobenzene       | 1.3               | 14            | 8.1                | 83             |
| 1,4-Dichlorobenzene       | 1.3               | Not Detected  | 8.1                | Not Detected   |
| alpha-Chlorotoluene       | 1.3               | Not Detected  | 7.0                | Not Detected   |
| 1,2-Dichlorobenzene       | 1.3               | Not Detected  | 8.1                | Not Detected   |
| 1,2,4-Trichlorobenzene    | 5.4               | Not Detected  | 40                 | Not Detected   |
| Hexachlorobutadiene       | 5.4               | Not Detected  | 57                 | Not Detected   |

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 99        | 70-130        |
| 1,2-Dichloroethane-d4 | 110       | 70-130        |
| 4-Bromofluorobenzene  | 98        | 70-130        |



## Rand Avenue Data Review

**Laboratory SDG: 0806099B**

**Reviewer: Tony Sedlacek**

**Date Reviewed: 7/22/2008**

**Guidance: National Functional Guidelines for Organic Data Review 1999.**

**Applicable Work Plan: Route 111/Rand Avenue Vicinity Investigation Work Plan.**

| Sample Identification # | Sample Identification # |
|-------------------------|-------------------------|
| GP-13-A-060408          | GP-13-B-060408          |
| GP-13-C-060408          | GP-13-D-060408          |
| GP-9-A-060408           | GP-9-B-060408           |
| GP-9-C-060408           | GP-9-C-060408-DUP       |
| GP-9-D-060408           |                         |

### 1.0 Data Package Completeness

*Were all items delivered as specified in the QAPP and COC?*

Yes

### 2.0 Laboratory Case Narrative \ Cooler Receipt Form

*Were problems noted in the laboratory case narrative or cooler receipt form?*

The laboratory case narrative and cooler receipt form did not indicate any problems.

### 3.0 Holding Times

*Were samples extracted/analyzed within QAPP limits?*

Yes

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

#### 4.0 Blank Contamination

*Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?*

No

| Blank ID | Parameter | Analyte | Concentration | Units |
|----------|-----------|---------|---------------|-------|
| N/A      |           |         |               |       |

Qualifications due to blank contamination are included in the table below.

| Field ID | Parameter | Analyte | New RL | Qualification |
|----------|-----------|---------|--------|---------------|
| N/A      |           |         |        |               |

#### 5.0 Laboratory Control Sample

*Were LCS recoveries within evaluation criteria?*

Yes

| LCS ID | Parameter | Analyte | LCS/LCSD Recovery | RPD | LCS/LCSD/RPD Criteria |
|--------|-----------|---------|-------------------|-----|-----------------------|
| N/A    |           |         |                   |     |                       |

Analytical data that required qualification based on LCS data are included in the table below.

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

#### 6.0 Surrogate Recoveries

*Were surrogate recoveries within evaluation criteria?*

Surrogates are not applicable for Method Modified ASTM D-1946.

| Field ID | Parameter | Surrogate | Recovery | Criteria |
|----------|-----------|-----------|----------|----------|
| N/A      |           |           |          |          |

Analytical data that required qualification based on surrogate data are included in the table below.

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

**7.0 Matrix Spike and Matrix Spike Duplicate Recoveries**

*Were MS/MSD samples reported as part of this SDG?*

MS/MSD samples are not applicable for air samples.

*Were MS/MSD recoveries within evaluation criteria?*

N/A

| MS/MSD ID | Parameter | Analyte | MS/MSD Recovery | RPD | MS/MSD/RPD Criteria |
|-----------|-----------|---------|-----------------|-----|---------------------|
| N/A       |           |         |                 |     |                     |

Analytical data that required qualification based on MS/MSD data are included in the table below.

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

**8.0 Laboratory Duplicate Results**

*Were laboratory duplicate samples collected as part of this SDG?*

No

*Were laboratory duplicate sample RPDs within criteria?*

N/A

| Field ID | Parameter | Analyte | RPD | Criteria |
|----------|-----------|---------|-----|----------|
| N/A      |           |         |     |          |

Data qualified due to outlying laboratory duplicate recoveries are identified below:

| Field ID | Parameter | Analyte | Qualification |
|----------|-----------|---------|---------------|
| N/A      |           |         |               |

**9.0 Field Duplicate Results**

*Were field duplicate samples collected as part of this SDG?*

Yes

| Field ID      | Field Duplicate ID |
|---------------|--------------------|
| GP-9-C-060408 | GP-9-C-060408-DUP  |

*Were field duplicates within evaluation criteria?*

Yes

| Field ID | Field Duplicate ID | Parameter | Analyte | RPD | Qualification |
|----------|--------------------|-----------|---------|-----|---------------|
| N/A      |                    |           |         |     |               |

**10.0 Sample Dilutions**

*For samples that were diluted and nondetect, were undiluted results also reported?*

Yes

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run *was not* reported:

| Field ID | Parameter | Dilution Factor |
|----------|-----------|-----------------|
| N/A      |           |                 |

**11.0 Additional Qualifications**

*Were additional qualifications applied?*

No



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

**180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630**

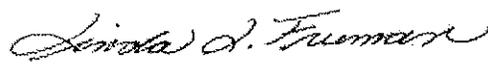
**(916) 985-1000 .FAX (916) 985-1020  
Hours 8:00 A.M to 6:00 P.M. Pacific**

**WORK ORDER #: 0806099B**

Work Order Summary

|                        |   |                  |  |
|------------------------|---|------------------|--|
| <b>CLIENT:</b>         | Mr. Mike Miller<br>URS Corporation<br>1001 Highlands Plaza Dr. West<br>Suite 300<br>St. Louis, MO 63110 | <b>BILL TO:</b>  | Accounts Payable OSP 2660 A<br>Equiva Services/Shell Oil Products<br>P.O. Box 4912<br>Houston, TX 77210-4720 |
| <b>PHONE:</b>          | 314-566-3073  | <b>P.O. #</b>    | 4700002383   |
| <b>FAX:</b>            |   | <b>PROJECT #</b> | 21561979 Rte 111 & Rand Ave Vicinity   |
| <b>DATE RECEIVED:</b>  | 06/05/2008  | <b>CONTACT:</b>  | Brandon Dunmore  |
| <b>DATE COMPLETED:</b> | 06/17/2008  |                  |  |

| <u>FRACTION #</u> | <u>NAME</u>       | <u>TEST</u>          | <u>RECEIPT<br/>VAC./PRES.</u> | <u>FINAL<br/>PRESSURE</u> |
|-------------------|-------------------|----------------------|-------------------------------|---------------------------|
| 01A               | GP-13-A-060408    | Modified ASTM D-1946 | 10.0 "Hg                      | 15 psi                    |
| 02A               | GP-13-B-060408    | Modified ASTM D-1946 | 9.0 "Hg                       | 15 psi                    |
| 03A               | GP-13-C-060408    | Modified ASTM D-1946 | 7.5 "Hg                       | 15 psi                    |
| 04A               | GP-13-D-060408    | Modified ASTM D-1946 | 9.0 "Hg                       | 15 psi                    |
| 05A               | GP-9-A-060408     | Modified ASTM D-1946 | 8.5 "Hg                       | 15 psi                    |
| 06A               | GP-9-B-060408     | Modified ASTM D-1946 | 9.0 "Hg                       | 15 psi                    |
| 07A               | GP-9-C-060408     | Modified ASTM D-1946 | 9.0 "Hg                       | 15 psi                    |
| 08A               | GP-9-C-060408-DUP | Modified ASTM D-1946 | 8.5 "Hg                       | 15 psi                    |
| 09A               | GP-9-D-060408     | Modified ASTM D-1946 | 7.5 "Hg                       | 15 psi                    |
| 10A               | Lab Blank         | Modified ASTM D-1946 | NA                            | NA                        |
| 11A               | LCS               | Modified ASTM D-1946 | NA                            | NA                        |

CERTIFIED BY:       DATE: 06/17/08

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
 NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719  
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
 Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08  
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE**  
**Modified ASTM D-1946**  
**URS Corporation**  
**Workorder# 0806099B**

Nine 1 Liter Summa Canister samples were received on June 05, 2008. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

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

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

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

| <b><i>Requirement</i></b> | <b><i>ASTM D-1946</i></b>  | <b><i>ATL Modifications</i></b>  |
|---------------------------|--|--|
| Calibration               | A single point calibration is performed using a reference standard closely matching the composition of the unknown.  | A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.   |
| Reference Standard        | The composition of any reference standard must be known to within 0.01 mol % for any component.  | The standards used by ATL are blended to a >= 95% accuracy.  |
| Sample Injection Volume   | Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.   | The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum. |
| Normalization             | Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%. | Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.       |
| Precision                 | Precision requirements established at each concentration level.  | Duplicates should agree within 25% RPD for detections > 5 X's the RL.  |

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-13-A-060408

Lab ID#: 0806099B-01A

**NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

|                     |                |  |
|---------------------|----------------|--|
| <b>File Name:</b>   | <b>9060715</b> | <b>Date of Collection: 6/4/08</b>        |
| <b>Dil. Factor:</b> | <b>3.03</b>    | <b>Date of Analysis: 6/7/08 01:21 PM</b> |

| <b>Compound</b> | <b>Rpt. Limit (%)</b> | <b>Amount (%)</b> |
|-----------------|-----------------------|-------------------|
| Oxygen          | 0.30                  | 9.3               |
| Nitrogen        | 0.30                  | 81                |
| Carbon Monoxide | 0.030                 | Not Detected      |
| Methane         | 0.00030               | 0.00039           |
| Carbon Dioxide  | 0.030                 | 10                |
| Ethane          | 0.0030                | Not Detected      |
| Ethene          | 0.0030                | Not Detected      |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-13-B-060408

Lab ID#: 0806099B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060716 | Date of Collection: | 6/4/08          |
| Dil. Factor: | 2.89    | Date of Analysis:   | 6/7/08 01:48 PM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.29           | 6.5          |
| Nitrogen        | 0.29           | 81           |
| Carbon Monoxide | 0.029          | Not Detected |
| Methane         | 0.00029        | 0.0026       |
| Carbon Dioxide  | 0.029          | 12           |
| Ethane          | 0.0029         | Not Detected |
| Ethene          | 0.0029         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-13-C-060408

Lab ID#: 0806099B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060717 | Date of Collection: | 6/4/08          |
| Dil. Factor: | 2.69    | Date of Analysis:   | 6/7/08 02:10 PM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.27           | 4.9          |
| Nitrogen        | 0.27           | 81           |
| Carbon Monoxide | 0.027          | Not Detected |
| Methane         | 0.00027        | 0.00084      |
| Carbon Dioxide  | 0.027          | 14           |
| Ethane          | 0.0027         | Not Detected |
| Ethene          | 0.0027         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-13-D-060408

Lab ID#: 0806099B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060718 | Date of Collection: | 6/4/08          |
| Dil. Factor: | 2.89    | Date of Analysis:   | 6/7/08 02:34 PM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.29           | 3.2          |
| Nitrogen        | 0.29           | 81           |
| Carbon Monoxide | 0.029          | Not Detected |
| Methane         | 0.00029        | 0.0030       |
| Carbon Dioxide  | 0.029          | 16           |
| Ethane          | 0.0029         | Not Detected |
| Ethene          | 0.0029         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-A-060408

Lab ID#: 0806099B-05A

**NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060719 | Date of Collection: | 6/4/08          |
| Dil. Factor: | 2.82    | Date of Analysis:   | 6/7/08 02:57 PM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.28           | 8.9          |
| Nitrogen        | 0.28           | 83           |
| Carbon Monoxide | 0.028          | Not Detected |
| Methane         | 0.00028        | Not Detected |
| Carbon Dioxide  | 0.028          | 8.5          |
| Ethane          | 0.0028         | Not Detected |
| Ethene          | 0.0028         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-B-060408

Lab ID#: 0806099B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060720 | Date of Collection: | 6/4/08          |
| Dil. Factor: | 2.89    | Date of Analysis:   | 6/7/08 03:24 PM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.29           | 7.5          |
| Nitrogen        | 0.29           | 83           |
| Carbon Monoxide | 0.029          | Not Detected |
| Methane         | 0.00029        | Not Detected |
| Carbon Dioxide  | 0.029          | 9.2          |
| Ethane          | 0.0029         | Not Detected |
| Ethene          | 0.0029         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-C-060408

Lab ID#: 0806099B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060721 | Date of Collection: | 6/4/08          |
| Dil. Factor: | 2.89    | Date of Analysis:   | 6/7/08 03:46 PM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.29           | 7.0          |
| Nitrogen        | 0.29           | 84           |
| Carbon Monoxide | 0.029          | Not Detected |
| Methane         | 0.00029        | Not Detected |
| Carbon Dioxide  | 0.029          | 9.5          |
| Ethane          | 0.0029         | Not Detected |
| Ethene          | 0.0029         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-C-060408-DUP

Lab ID#: 0806099B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060722 | Date of Collection: | 6/4/08          |
| Dil. Factor: | 2.82    | Date of Analysis:   | 6/7/08 04:08 PM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.28           | 7.2          |
| Nitrogen        | 0.28           | 83           |
| Carbon Monoxide | 0.028          | Not Detected |
| Methane         | 0.00028        | Not Detected |
| Carbon Dioxide  | 0.028          | 9.4          |
| Ethane          | 0.0028         | Not Detected |
| Ethene          | 0.0028         | Not Detected |

Container Type: 1 Liter Summa Canister



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-9-D-060408

Lab ID#: 0806099B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 9060723 | Date of Collection: | 6/4/08          |
| Dil. Factor: | 2.69    | Date of Analysis:   | 6/7/08 04:31 PM |

| Compound        | Rpt. Limit (%) | Amount (%)   |
|-----------------|----------------|--------------|
| Oxygen          | 0.27           | 5.6          |
| Nitrogen        | 0.27           | 84           |
| Carbon Monoxide | 0.027          | Not Detected |
| Methane         | 0.00027        | Not Detected |
| Carbon Dioxide  | 0.027          | 10           |
| Ethane          | 0.0027         | Not Detected |
| Ethene          | 0.0027         | Not Detected |

Container Type: 1 Liter Summa Canister



# CHAIN-OF-CUSTODY RECORD

## Sample Transportation Notice

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

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

Page 1 of 1

Project Manager Jeff Adams (Thames Adams Assoc. Corp)  
 Collected by: (Print and Sign) Michael Miller  
 Company URS Corporation Email Michael.Miller@urscorp.com  
 Address 1001 Higgins Plaza Suite 300 City St. Louis State \_\_\_\_\_ Zip 63116  
 Phone 314 429-0100 Fax 314 429-0462

|  |  |   |
|--|--|---|
| <b>Project Info:</b><br>P.O. # _____<br>Project # <u>2-1561979</u><br>Project Name <u>R.M. B. Road Area Valley</u> | <b>Turn Around Time:</b>   | <i>Lab Use Only</i><br>Pressurized by: _____<br>Date: _____<br>Pressurization Gas: _____<br>N <sub>2</sub> He |
|  | <input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush<br>specify |   |

| Lab I.D.   | Field Sample I.D. (Location) | Can #        | Date of Collection | Time of Collection | Analyses Requested             | Canister Pressure/Vacuum |            |         |             |
|------------|------------------------------|--------------|--------------------|--------------------|--------------------------------|--------------------------|------------|---------|-------------|
|            |                              |              |                    |                    |                                | Initial                  | Final      | Receipt | Final (psi) |
| <u>01A</u> | <u>GP-13-A-060408</u>        | <u>5C62</u>  | <u>06/04/08</u>    | <u>0850</u>        | <u>T0-15 &amp; ASTM D-1946</u> | <u>29</u>                | <u>8.5</u> |         |             |
| <u>02A</u> | <u>GP-13-B-060408</u>        | <u>5C74</u>  | <u>06/04/08</u>    | <u>0855</u>        | <u>T0-15 &amp; ASTM D-1946</u> | <u>30</u>                | <u>9</u>   |         |             |
| <u>03A</u> | <u>GP-13-C-060408</u>        | <u>5C64</u>  | <u>06/04/08</u>    | <u>0900</u>        | <u>T0-15 &amp; ASTM D-1946</u> | <u>30</u>                | <u>8</u>   |         |             |
| <u>04A</u> | <u>GP-13-D-060408</u>        | <u>1423</u>  | <u>06/04/08</u>    | <u>0905</u>        | <u>T0-15 &amp; ASTM D-1946</u> | <u>27</u>                | <u>7</u>   |         |             |
| <u>05A</u> | <u>GP-9-A-060408</u>         | <u>34153</u> | <u>06/04/08</u>    | <u>1045</u>        | <u>T0-15 &amp; ASTM D-1946</u> | <u>29</u>                | <u>7</u>   |         |             |
| <u>06A</u> | <u>GP-9-B-060408</u>         | <u>36519</u> | <u>06/04/08</u>    | <u>1050</u>        | <u>T0-15 &amp; ASTM D-1946</u> | <u>30</u>                | <u>8.5</u> |         |             |
| <u>07A</u> | <u>GP-9-C-060408</u>         | <u>5652</u>  | <u>06/04/08</u>    | <u>1055</u>        | <u>T0-15 &amp; ASTM D-1946</u> | <u>30</u>                | <u>9</u>   |         |             |
| <u>08A</u> | <u>GP-9-C-060408-DUP</u>     | <u>5666</u>  | <u>06/04/08</u>    | <u>1055</u>        | <u>T0-15 &amp; ASTM D-1946</u> | <u>29.5</u>              | <u>8.5</u> |         |             |
| <u>09A</u> | <u>GP-9-D-060408</u>         | <u>9358</u>  | <u>06/04/08</u>    | <u>1115</u>        | <u>T0-15 &amp; ASTM D-1946</u> | <u>30</u>                | <u>6</u>   |         |             |

|  |  |               |
|--|--|---------------|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>6/4/08 1600</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>6/5/08 1000</u> | <b>Notes:</b> |
| Relinquished by: (signature) _____ Date/Time _____                           | Received by: (signature) _____ Date/Time _____                           |               |
| Relinquished by: (signature) _____ Date/Time _____                           | Received by: (signature) _____ Date/Time _____                           |               |

|                     |              |                       |           |             |  |                |
|---------------------|--------------|-----------------------|-----------|-------------|--|----------------|
| <b>Lab Use Only</b> | Shipper Name | Air Bill #            | Temp (°C) | Condition   | Custody Seals intact?  | Work Order #   |
|                     | <u>FedEx</u> | <u>8640 3796 9512</u> | <u>NA</u> | <u>good</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None | <u>0806099</u> |