

**URS Corporation**

640 Ellicott Street  
Buffalo, New York 14203 (716)-856-5636 FAX: (716) 856-2545

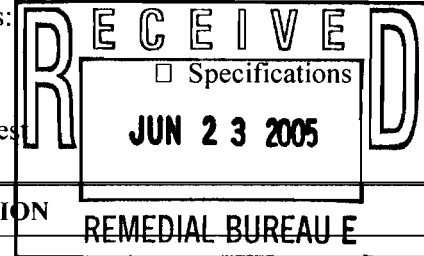
**Letter of Transmittal**

TO: **NYSDEC**  
**625 Broadway**  
**Albany, NY 12233-7020**

DATE: **6/21/05** JOB NO.: **35388**  
ATTN: **David Chiusano**  
RE: **Site #8-49-002**  
**North Franklin Street**  
**Watkins Glen, Schulyer, New York**  
**Work Authorization # D003825.093**

We are sending you ☒ **Attached** ☐ Under Separate Cover the following items:

- ☐ Shop Drawings ☐ Prints ☐ Plans  
☐ Copy of letter ☐ Change Order ☐ Payment Request



| COPIES | DRWG | DATE      | DESCRIPTION                                                                                          |
|--------|------|-----------|------------------------------------------------------------------------------------------------------|
| 3      |      | June 2005 | Bi-Monthly Letter Report, Active Venting System Operation and Maintenance, April 2005 Sampling Event |
|        |      |           |                                                                                                      |
|        |      |           |                                                                                                      |

THESE ARE TRANSMITTED as checked below:

- ☐ For approval ☐ No Exceptions Taken ☐ Resubmit \_\_\_\_ copies for approval  
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☐ As requested ☐ Amend and Resubmit ☐ Return \_\_\_\_ corrected prints  
☐ For review and comment ☐ Rejected - See Remarks ☐ \_\_\_\_\_  
☐ FOR BIDS DUE \_\_\_\_\_, 20 \_\_\_\_ PRINTS RETURNED AFTER LOAN TO US

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Copies to: File: 35388 (C-1)

Charles E. Dusel, Jr., Senior Project Manager

**BI-MONTHLY LETTER REPORT  
ACTIVE VENTING SYSTEM  
OPERATION AND MAINTENANCE  
APRIL 2005 SAMPLING EVENT  
NORTH FRANKLIN STREET SITE  
SITE #8-49-002  
VILLAGE OF WATKINS GLEN, NEW YORK**

**Prepared For:**

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF ENVIRONMENTAL REMEDIATION  
WORK ASSIGNMENT D003825-09.3**

**FINAL**

**Prepared By:**

**URS CORPORATION  
77 GOODELL STREET  
BUFFALO, NEW YORK 14203**

June 17, 2005

Mr. David J. Chiusano, Project Manager  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
625 Broadway  
12th Floor  
Albany, New York 12233-7013

**RE: NYSDEC Standby Contract  
Active Venting System Operation and Maintenance # D003825-09.3  
April 2005 Sampling Event  
North Franklin Street Site, Site No. 8-49-002  
Summary of Operation and Maintenance Activities: Bi-Monthly Letter Report**

Dear Mr. Chiusano:

URS Corporation (URS) has completed the last of six visits to the above-referenced system to conduct bi-monthly operation and maintenance (O&M). This work was performed in accordance with the New York State Department of Environmental Conservation (NYSDEC) Project Management Work Plan (PMWP)/Budget estimate (NYSDEC, July 2003).

The O&M consisted of performing system checks to ensure that the system is operating properly and to collect representative samples of the indoor air and the system's soil gas exhaust. The O&M activities were conducted by URS personnel on April 20, 2005. Documentation of the O&M activities is provided in the Field Notes, included in Attachment 1.

#### Inspection

URS' inspection of the system revealed that it was working properly, expulsing soil gas at a rate of 940 feet per minute. The velocity of the exhaust was measured by inserting the probe of an air velocity meter (TSI Velocichuck Model 8330) into a sampling port located on the side of the exhaust stack. Wally Burnett of Action Real Estate, the site's current tenant, had no issues with the operation of the above-referenced system. Inspection details are also included in Attachment 1.

#### Bi-Monthly Air Sampling

As part of the O&M, URS collected two (2) air samples from the following locations:

- One (1) 4-hour indoor air sample, collected in the back room of the site building (INDOOR-0405); and,
- One (1) soil vapor grab sample, collected from the venting system's exhaust stack (SOILGAS-0405).

These samples were collected using SUMMA canisters, in accordance with the protocols outlined in Section 7.1.1 of the United States Environmental Protection Agency's (USEPA's) "SUMMA Canister Sampling" procedures (SOP#: 1704, 7/27/1995). Sampling logs are provided in Attachment 2. Once collected, these samples and corresponding chain of custody (see Attachment 2) were sent to Severn Trent Laboratories (STL) in Knoxville, Tennessee (a New York State Department of Health [NYSDOH] approved laboratory) for volatile organic compound (VOC) analysis via USEPA Method TO-15. The table below summarizes the analytical data. A copy of the laboratory report is included in Attachment 3.

| Compound                    | Units             | Sample I.D.                     |                                            | OSHA Permissible Exposure Level <sup>(1)</sup> | NYSDOH Indoor Air Criteria |
|-----------------------------|-------------------|---------------------------------|--------------------------------------------|------------------------------------------------|----------------------------|
|                             |                   | INDOOR-0405                     | SOILGAS-0405                               |                                                |                            |
| Acetone                     | ug/m <sup>3</sup> | 83 (method blank contamination) | 15 (estimated, method blank contamination) | 2,400,000                                      | None Available             |
| Benzene                     | ug/m <sup>3</sup> | 3.0                             | 0.46 (estimated)                           | 31,946.83                                      | None Available             |
| Bromodichloro-methane       | ug/m <sup>3</sup> | Not Detected                    | 1.3 (estimated)                            | None Available                                 | None Available             |
| Carbon Disulfide            | ug/m <sup>3</sup> | Not Detected                    | 0.41 (estimated)                           | 62,282.21                                      | None Available             |
| Chloromethane               | ug/m <sup>3</sup> | 3.2                             | Not Detected                               | 206,503.07                                     | None Available             |
| Chloroform                  | ug/m <sup>3</sup> | Not Detected                    | 1.6                                        | 240,000                                        | None Available             |
| cis-1,2-Dichloroethene      | ug/m <sup>3</sup> | Not Detected                    | 17                                         | None Available                                 | None Available             |
| Ethylbenzene                | ug/m <sup>3</sup> | 3.1                             | Not Detected                               | 435,000                                        | None Available             |
| Methylene Chloride          | ug/m <sup>3</sup> | Not Detected                    | 6.4                                        | 86,850.72                                      | None Available             |
| 4-Methyl-2-pentanone (MIBK) | ug/m <sup>3</sup> | 1.9 (estimated)                 | Not Detected                               | 410,000                                        | None Available             |
| Styrene                     | ug/m <sup>3</sup> | 1.1 (estimated)                 | Not Detected                               | 425,930.47                                     | None Available             |
| Tetrachloroethene           | ug/m <sup>3</sup> | 2.3 (estimated)                 | 200                                        | 678,323.11                                     | 100 <sup>(2)</sup>         |
| Toluene                     | ug/m <sup>3</sup> | 15                              | 1.0                                        | 753,619.63                                     | None Available             |
| Trichloroethene             | ug/m <sup>3</sup> | Not Detected                    | 13                                         | 537,423.31                                     | 5 <sup>(3)</sup>           |
| o-Xylene                    | ug/m <sup>3</sup> | 2.0                             | Not Detected                               | 435,000                                        | None Available             |
| m&p-Xylene                  | ug/m <sup>3</sup> | 7.7                             | Not Detected                               | 435,000                                        | None Available             |
| 2-Butanone (MEK)            | ug/m <sup>3</sup> | 10                              | 1.4 (estimated)                            | 590,000                                        | None Available             |

1 – Sources: 29 CFR 1910.1000 and 29 CFR 1910.1052

2 – Source: Fact Sheet Tetrachloroethene (PERC) Indoor Outdoor Air, NYSDOH (May 2003)

3 - Source: NYSDOH letter from N. Kim to D. Desnoyers, Division of Environmental Remediation, NYSDEC (October 31, 2003)

Mr. David J. Chiusano, Project Manager

June 17, 2005

Continued – page 3

As shown in the table above, the concentration of VOCs detected in the indoor air sample complies with applicable OSHA criteria, with the estimated concentration of tetrachloroethene detected ( $2.3 \text{ ug/m}^3$ ) well below the NYSDOH indoor air criteria ( $100 \text{ ug/m}^3$ ).

It should be noted that the concentration of xylenes and toluene detected in the indoor air sample have remained constant since the February O&M event. The remainder of the compounds detected in the indoor air sample had concentrations at or near their corresponding reporting limits.

Should you have any questions or comments, please do not hesitate to contact me at 716-856-5636.

Sincerely,

**URS Corporation**



Charles E. Dusch, Jr.  
Sr. Project Manager

cc: File: 05.35388 (C-1) (11173258)

# **ATTACHMENT 1**

## **FIELD NOTES**

SPENT APRIL 13-MONDAY SVE OTM

09:15- R. McGOWAN ON-SITE, MET W/ WALLY BURNETT (LEASEE).  
WALLY HAS NO PROBLEMS W/ SVE SYSTEM.

SVE SYSTEM APPEARS TO BE OPERATING PROPERLY, EXPELLING  
SOIL GAS AT A RATE OF 940 FT<sup>3</sup>/MIN

09:25- BEGAN INDOOR AIR COMPOSITE SAMPLING VIA A 6L SUMMA  
CANISTER W/ 4-HOUR REGULATION (INDOOR-0405). BEGAN  
SOIL GAS CHAM SAMPLING VIA 6L SUMMA CANISTER & 2' TEFLO  
COATED POLY TUBING AGAINST SVE EXHAUST SAMPLING PORT.  
~~10:00~~ 10:00  
DETAILS IN SUMMA CANISTER SAMPLING DATA SHEET

09:47- FINISHED SAMPLING SOIL GAS (SOIL GAS-0405), BEGAN DTW  
DATA COLLECTION

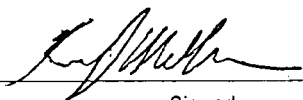
| WELL ID | DTW FROM<br>TGC (FE)  | DTB<br>FROM TGC | DISTANCE FROM<br>TGC TO SURFACE |
|---------|-----------------------|-----------------|---------------------------------|
| MW-01   | 4.19'                 | 13.91'          | 0.3'                            |
| MW-03   | 4.54'                 | 12.72' H        | 0.15'                           |
| MW-04   | 3.04'                 | 11.50'          | 0.55'                           |
| MW-05D  | 4.48'                 | 22.50'          | 0.65'                           |
| MW-07S  | 3.72'                 | 16.15'          | 0.4'                            |
| MW-08S  | 6.40'                 | 13.60'          | - 1.2'                          |
| MW-12S  | <del>5.22</del> 4.70' | 10.71' H        | ~ 0.075                         |
| MW-16S  | 4.70'                 | SEG NOTED BELOW |                                 |
| MW-19S  | 4.65'                 | 13.73'          | ~ 0.1'                          |
| MW-20S  | 4.30'                 | 17.35'          | 0.425                           |
| MW-09S  | 5.22'                 | 13.95' H        | 0.2'                            |

H = HAND

13:00- FINISHED DTW DATA COLLECTION W/O MW-16S DATA.  
COULD NOT OPEN BUTON CASING CID. SPENT > 1.5 HOURS  
USING VARIOUS TOOLS/TECHNIQUES

Continued on Page 7

Read and Understood By



Signed

4/20/05

Date

Signed

Date

13:23- FINISHED INDOOR AIR COMPOSITE SAMPLING (4-HR COMPOSITE). READING  
SECOND COMPOSITE FOR SHIPMENT TO LAB.

13:34 CALLED CHUCK DUNN, CHUCK SUGGESTED AN EXTRA 0.5 HRS  
ON MW-165

14:18- STILL NO SUCCESS CALLED CHUCK D. AGAIN, E

14:20- LEFT SITE

Continued on Page

Read and Understood By



Signed

4/20/05

Date

Signed

Date



**ATTACHMENT 2**

**CHAIN OF CUSTODY/  
SAMPLING DATA SHEET**



## Summa Canister Sampling Field Data Sheet

Site: NYSDEC - 20 N. Franklin Site, Watkins Glen, NY

Samplers: Kevin J. McGovern

Date: 4/20/05

|                                                                                                                                                                                          |                          |                                       |                       |                       |                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------|-----------------------|-----------------------|-----------------------|
| Sample #                                                                                                                                                                                 | INDOOR-0405              | SOILGAS-0405                          |                       |                       |                       |
| Location                                                                                                                                                                                 | Indoors                  | Gas Exhaust                           |                       |                       |                       |
| Summa Canister ID<br>(Lab ID, if provided)                                                                                                                                               | 02801<br><del>5457</del> | 12582                                 |                       |                       |                       |
| Additional Tubing Added                                                                                                                                                                  | NO/<br>YES - How much    | NO/<br>YES - How much<br>2' Teflon PV | NO/<br>YES - How much | NO/<br>YES - How much | NO/<br>YES - How much |
| Purge Time (Start)                                                                                                                                                                       | NA                       | 09:25                                 |                       |                       |                       |
| Purge Time (Stop)                                                                                                                                                                        |                          | 09:45                                 |                       |                       |                       |
| Total Purge Time (min)<br>[recommended time is 20<br>min for 1L canister]                                                                                                                |                          | 20 min                                |                       |                       |                       |
| Pressure Gauge - before<br>sampling                                                                                                                                                      | NA                       | NA                                    |                       |                       |                       |
| Sample Time (Start)                                                                                                                                                                      | 09:23                    | 09:45                                 |                       |                       |                       |
| Sample Time (Stop)                                                                                                                                                                       | 13:23                    | 09:47                                 |                       |                       |                       |
| Total Sample Time (min)                                                                                                                                                                  | 240                      | <del>20</del> 2-0                     |                       |                       |                       |
| Pressure Gauge - after<br>sampling                                                                                                                                                       | NA                       | NA                                    |                       |                       |                       |
| Canister Pressure Went<br>To Ambient Pressure?                                                                                                                                           | YES (NO)                 | (YES) / NO                            | YES / NO              | YES / NO              | YES / NO              |
| General Comments:<br><div style="text-align: center;">  <p>Still Drawing Air After 4 Hours</p> </div> |                          |                                       |                       |                       |                       |

**ATTACHMENT 3**

**LABORATORY REPORT**

SEVERN  
TRENT

STL

STL Knoxville  
5815 Middlebrook Pike  
Knoxville, TN 37921

Tel: 865 291 3000 Fax: 865 584 4315  
www.stl-inc.com

## ANALYTICAL REPORT

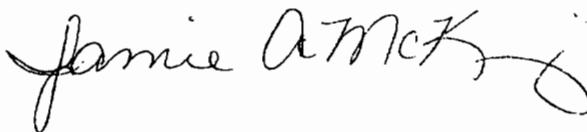
North Franklin St.

Lot #: H5D210116

Ann Marie Kropovitch

URS Corp/ NYSDEC  
640 Ellicott St.  
Buffalo, NY 14203-

SEVERN TRENT LABORATORIES, INC.



Jamie A. McKinney  
Project Manager

May 3, 2005

## ANALYTICAL METHODS SUMMARY

H5D210116

| <u>PARAMETER</u>          | <u>ANALYTICAL<br/>METHOD</u> |
|---------------------------|------------------------------|
| Volatile Organics by TO15 | EPA-2 TO-15                  |

### References:

EPA-2      "Compendium of Methods for the Determination of Toxic  
Organic Compounds in Ambient Air", EPA-625/R-96/010b,  
January 1999.

## **PROJECT NARRATIVE**

### **H5D210116**

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

**The original chain of custody documentation is included with this report.**

#### **Sample Receipt**

There were no problems with the condition of the samples received.

#### **Quality Control**

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #04-041-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center, US EPA Perchlorate Approval and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

# Sample Data Summary



**URS Corp/ NYSDEC**  
**Client Sample ID: INDOOR-0405**  
**GC/MS Volatiles**

Lot-Sample # H5D210116 - 001

Work Order # G8TJQ1AD

Matrix.....: AIR

Date Sampled...: 4/20/05

Date Received...: 4/21/05

Prep Date.....: 4/27/05

Analysis Date...: 4/27/05

Prep Batch #.....: 5118209

Dilution Factor.: 1.86

Method.....: TO-15

| PARAMETER                   | RESULTS<br>(ppb(v/v)) | REPORTING<br>LIMIT (ppb(v/v)) | RESULTS (ug/m3) | REPORTING<br>LIMIT (ug/m3) |
|-----------------------------|-----------------------|-------------------------------|-----------------|----------------------------|
| trans-1,3-Dichloropropene   | ND                    | 0.37                          | ND              | 1.7                        |
| Acetone                     | 35                    | 9.3                           | 83 B            | 22                         |
| Ethylbenzene                | 0.71                  | 0.37                          | 3.1             | 1.6                        |
| 2-Hexanone                  | ND                    | 0.93                          | ND              | 3.8                        |
| Methylene chloride          | ND                    | 0.93                          | ND              | 3.2                        |
| Benzene                     | 0.95                  | 0.37                          | 3.0             | 1.2                        |
| Styrene                     | 0.25                  | 0.37                          | 1.1 J           | 1.6                        |
| 1,1,2,2-Tetrachloroethane   | ND                    | 0.37                          | ND              | 2.6                        |
| Tetrachloroethene           | 0.34                  | 0.37                          | 2.3 J           | 2.5                        |
| Toluene                     | 4.0                   | 0.37                          | 15              | 1.4                        |
| 1,1,1-Trichloroethane       | ND                    | 0.37                          | ND              | 2.0                        |
| 1,1,2-Trichloroethane       | ND                    | 0.37                          | ND              | 2.0                        |
| Trichloroethene             | ND                    | 0.37                          | ND              | 2.0                        |
| Vinyl chloride              | ND                    | 0.37                          | ND              | 0.95                       |
| o-Xylene                    | 0.46                  | 0.37                          | 2.0             | 1.6                        |
| m-Xylene & p-Xylene         | 1.8                   | 0.37                          | 7.7             | 1.6                        |
| Bromodichloromethane        | ND                    | 0.37                          | ND              | 2.5                        |
| 2-Butanone (MEK)            | 3.4                   | 0.93                          | 10              | 2.7                        |
| 4-Methyl-2-pentanone (MIBK) | 0.46                  | 0.93                          | 1.9 J           | 3.8                        |
| Bromoform                   | ND                    | 0.37                          | ND              | 3.8                        |
| Bromomethane                | ND                    | 0.37                          | ND              | 1.4                        |
| Carbon disulfide            | ND                    | 0.37                          | ND              | 1.2                        |
| Carbon tetrachloride        | ND                    | 0.37                          | ND              | 2.3                        |
| Chlorobenzene               | ND                    | 0.37                          | ND              | 1.7                        |
| Dibromochloromethane        | ND                    | 0.37                          | ND              | 3.2                        |
| Chloroethane                | ND                    | 0.37                          | ND              | 0.98                       |
| Chloroform                  | ND                    | 0.37                          | ND              | 1.8                        |
| Chloromethane               | 1.5                   | 0.93                          | 3.2             | 1.9                        |
| 1,1-Dichloroethane          | ND                    | 0.37                          | ND              | 1.5                        |
| 1,2-Dichloroethane          | ND                    | 0.37                          | ND              | 1.5                        |
| 1,1-Dichloroethene          | ND                    | 0.37                          | ND              | 1.5                        |
| cis-1,2-Dichloroethene      | ND                    | 0.37                          | ND              | 1.5                        |
| trans-1,2-Dichloroethene    | ND                    | 0.37                          | ND              | 1.5                        |
| 1,2-Dichloropropane         | ND                    | 0.37                          | ND              | 1.7                        |
| cis-1,3-Dichloropropene     | ND                    | 0.37                          | ND              | 1.7                        |

URS Corp/ NYSDEC  
 Client Sample ID: INDOOR-0405  
 GC/MS Volatiles

|                              |                       |                                     |
|------------------------------|-----------------------|-------------------------------------|
| Lot-Sample # H5D210116 - 001 | Work Order # G8TJQ1AD | Matrix.....: AIR                    |
| SURROGATE                    | PERCENT<br>RECOVERY   | LABORATORY<br>CONTROL<br>LIMITS (%) |
| 1,2-Dichloroethane-d4        | 94                    | 70 - 130                            |
| Toluene-d8                   | 99                    | 70 - 130                            |
| 4-Bromofluorobenzene         | 95                    | 70 - 130                            |

**Qualifiers**

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.  
 J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)\*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) \* Dilution Factor) \* (Molecular Weight/24.45)

URS Corp/ NYSDEC  
Client Sample ID: SOILGAS-0405  
GC/MS Volatiles

Lot-Sample # H5D210116 - 002      Work Order # G8TJW1AC      Matrix.....: AIR

Date Sampled...: 4/20/05      Date Received...: 4/21/05  
Prep Date.....: 4/27/05      Analysis Date...: 4/27/05  
Prep Batch #.....: 5118209  
Dilution Factor.: 1.3      Method.....: TO-15

| PARAMETER                   | RESULTS<br>(ppb(v/v)) | REPORTING<br>LIMIT (ppb(v/v)) | RESULTS (ug/m3) | REPORTING<br>LIMIT (ug/m3) |
|-----------------------------|-----------------------|-------------------------------|-----------------|----------------------------|
| trans-1,3-Dichloropropene   | ND                    | 0.26                          | ND              | 1.2                        |
| Acetone                     | 6.1                   | 6.5                           | 15      J B     | 15                         |
| Ethylbenzene                | ND                    | 0.26                          | ND              | 1.1                        |
| 2-Hexanone                  | ND                    | 0.65                          | ND              | 2.7                        |
| Methylene chloride          | 1.8                   | 0.65                          | 6.4             | 2.3                        |
| Benzene                     | 0.14                  | 0.26                          | 0.46      J     | 0.83                       |
| Styrene                     | ND                    | 0.26                          | ND              | 1.1                        |
| 1,1,2,2-Tetrachloroethane   | ND                    | 0.26                          | ND              | 1.8                        |
| Tetrachloroethene           | 30                    | 0.26                          | 200             | 1.8                        |
| Toluene                     | 0.27                  | 0.26                          | 1.0             | 0.98                       |
| 1,1,1-Trichloroethane       | ND                    | 0.26                          | ND              | 1.4                        |
| 1,1,2-Trichloroethane       | ND                    | 0.26                          | ND              | 1.4                        |
| Trichloroethene             | 2.5                   | 0.26                          | 13              | 1.4                        |
| Vinyl chloride              | ND                    | 0.26                          | ND              | 0.66                       |
| o-Xylene                    | ND                    | 0.26                          | ND              | 1.1                        |
| m-Xylene & p-Xylene         | ND                    | 0.26                          | ND              | 1.1                        |
| Bromodichloromethane        | 0.19                  | 0.26                          | 1.3      J      | 1.7                        |
| 2-Butanone (MEK)            | 0.46                  | 0.65                          | 1.4      J      | 1.9                        |
| 4-Methyl-2-pentanone (MIBK) | ND                    | 0.65                          | ND              | 2.7                        |
| Bromoform                   | ND                    | 0.26                          | ND              | 2.7                        |
| Bromomethane                | ND                    | 0.26                          | ND              | 1.0                        |
| Carbon disulfide            | 0.13                  | 0.26                          | 0.41      J     | 0.81                       |
| Carbon tetrachloride        | ND                    | 0.26                          | ND              | 1.6                        |
| Chlorobenzene               | ND                    | 0.26                          | ND              | 1.2                        |
| Dibromochloromethane        | ND                    | 0.26                          | ND              | 2.2                        |
| Chloroethane                | ND                    | 0.26                          | ND              | 0.69                       |
| Chloroform                  | 0.33                  | 0.26                          | 1.6             | 1.3                        |
| Chloromethane               | ND                    | 0.65                          | ND              | 1.3                        |
| 1,1-Dichloroethane          | ND                    | 0.26                          | ND              | 1.1                        |
| 1,2-Dichloroethane          | ND                    | 0.26                          | ND              | 1.1                        |
| 1,1-Dichloroethene          | ND                    | 0.26                          | ND              | 1.0                        |
| cis-1,2-Dichloroethene      | 4.2                   | 0.26                          | 17              | 1.0                        |
| trans-1,2-Dichloroethene    | ND                    | 0.26                          | ND              | 1.0                        |
| 1,2-Dichloropropane         | ND                    | 0.26                          | ND              | 1.2                        |
| cis-1,3-Dichloropropene     | ND                    | 0.26                          | ND              | 1.2                        |

URS Corp/ NYSDEC  
Client Sample ID: SOILGAS-0405  
GC/MS Volatiles

|                       |                 |                     |          |                                     |     |
|-----------------------|-----------------|---------------------|----------|-------------------------------------|-----|
| Lot-Sample #          | H5D210116 - 002 | Work Order #        | G8TJWIAC | Matrix.....:                        | AIR |
| SURROGATE             |                 | PERCENT<br>RECOVERY |          | LABORATORY<br>CONTROL<br>LIMITS (%) |     |
| 1,2-Dichloroethane-d4 |                 | 96                  |          | 70 - 130                            |     |
| Toluene-d8            |                 | 102                 |          | 70 - 130                            |     |
| 4-Bromofluorobenzene  |                 | 93                  |          | 70 - 130                            |     |

Qualifiers

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.  
J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)\*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) \* Dilution Factor) \* (Molecular Weight/24.45)

**URS Corp/ NYSDEC**  
**Client Sample ID: INTRA-LAB BLANK**  
**GC/MS Volatiles**

**Lot-Sample #** H5D280000 - 209B

**Work Order #** G9DCJ1AA

**Matrix.....:** AIR

**Prep Date.....:** 4/27/05

**Date Received..:** 4/15/05

**Prep Batch #.....:** 5118209

**Analysis Date...:** 4/27/05

**Dilution Factor..:** 1

**Method.....:** TO-15

| PARAMETER                   | RESULTS<br>(ppb(v/v)) | REPORTING<br>LIMIT (ppb(v/v)) | RESULTS (ug/m3) | REPORTING<br>LIMIT (ug/m3) |
|-----------------------------|-----------------------|-------------------------------|-----------------|----------------------------|
| trans-1,3-Dichloropropene   | ND                    | 0.20                          | ND              | 0.91                       |
| <b>Acetone</b>              | <b>0.70</b>           | <b>5.0</b>                    | <b>1.7 J</b>    | <b>12</b>                  |
| Ethylbenzene                | ND                    | 0.20                          | ND              | 0.87                       |
| 2-Hexanone                  | ND                    | 0.50                          | ND              | 2.0                        |
| Methylene chloride          | ND                    | 0.50                          | ND              | 1.7                        |
| Benzene                     | ND                    | 0.20                          | ND              | 0.64                       |
| Styrene                     | ND                    | 0.20                          | ND              | 0.85                       |
| 1,1,2,2-Tetrachloroethane   | ND                    | 0.20                          | ND              | 1.4                        |
| Tetrachloroethene           | ND                    | 0.20                          | ND              | 1.4                        |
| Toluene                     | ND                    | 0.20                          | ND              | 0.75                       |
| 1,1,1-Trichloroethane       | ND                    | 0.20                          | ND              | 1.1                        |
| 1,1,2-Trichloroethane       | ND                    | 0.20                          | ND              | 1.1                        |
| Trichloroethene             | ND                    | 0.20                          | ND              | 1.1                        |
| Vinyl chloride              | ND                    | 0.20                          | ND              | 0.51                       |
| o-Xylene                    | ND                    | 0.20                          | ND              | 0.87                       |
| m-Xylene & p-Xylene         | ND                    | 0.20                          | ND              | 0.87                       |
| Bromodichloromethane        | ND                    | 0.20                          | ND              | 1.3                        |
| 2-Butanone (MEK)            | ND                    | 0.50                          | ND              | 1.5                        |
| 4-Methyl-2-pentanone (MIBK) | ND                    | 0.50                          | ND              | 2.0                        |
| Bromoform                   | ND                    | 0.20                          | ND              | 2.1                        |
| Bromomethane                | ND                    | 0.20                          | ND              | 0.78                       |
| Carbon disulfide            | ND                    | 0.20                          | ND              | 0.62                       |
| Carbon tetrachloride        | ND                    | 0.20                          | ND              | 1.3                        |
| Chlorobenzene               | ND                    | 0.20                          | ND              | 0.92                       |
| Dibromochloromethane        | ND                    | 0.20                          | ND              | 1.7                        |
| Chloroethane                | ND                    | 0.20                          | ND              | 0.53                       |
| Chloroform                  | ND                    | 0.20                          | ND              | 0.98                       |
| Chloromethane               | ND                    | 0.50                          | ND              | 1.0                        |
| 1,1-Dichloroethane          | ND                    | 0.20                          | ND              | 0.81                       |
| 1,2-Dichloroethane          | ND                    | 0.20                          | ND              | 0.81                       |
| 1,1-Dichloroethene          | ND                    | 0.20                          | ND              | 0.79                       |
| cis-1,2-Dichloroethene      | ND                    | 0.20                          | ND              | 0.79                       |
| trans-1,2-Dichloroethene    | ND                    | 0.20                          | ND              | 0.79                       |
| 1,2-Dichloropropane         | ND                    | 0.20                          | ND              | 0.92                       |
| cis-1,3-Dichloropropene     | ND                    | 0.20                          | ND              | 0.91                       |

URS Corp/ NYSDEC  
 Client Sample ID: INTRA-LAB BLANK  
 GC/MS Volatiles

|                       |                  |                             |          |                                              |     |
|-----------------------|------------------|-----------------------------|----------|----------------------------------------------|-----|
| <b>Lot-Sample #</b>   | H5D280000 - 209B | <b>Work Order #</b>         | G9DCJ1AA | <b>Matrix.....:</b>                          | AIR |
| <b>SURROGATE</b>      |                  | <b>PERCENT<br/>RECOVERY</b> |          | <b>LABORATORY<br/>CONTROL<br/>LIMITS (%)</b> |     |
| 1,2-Dichloroethane-d4 |                  | 94                          |          | 70 - 130                                     |     |
| Toluene-d8            |                  | 102                         |          | 70 - 130                                     |     |
| 4-Bromofluorobenzene  |                  | 99                          |          | 70 - 130                                     |     |

**Qualifiers**

J                      Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)\*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) \* Dilution Factor) \* (Molecular Weight/24.45)

**URS Corp/ NYSDEC**  
**Client Sample ID: CHECK SAMPLE**  
**GC/MS Volatiles**

**Lot-Sample #** HSD280000 - 209C

**Work Order #** G9DCJ1AC

**Matrix.....:** AIR

**Prep Date.....:** 4/27/05

**Date Received..:** 4/15/05

**Prep Batch #.....:** 5118209

**Analysis Date...** 4/27/05

**Dilution Factor.:** 1

**Method.....:** TO-15

| PARAMETER          | SPIKE<br>AMOUNT<br>(ppb(v/v)) | MEASURED<br>AMOUNT<br>(ppb(v/v)) | SPIKE<br>AMOUNT<br>(ug/m3) | MEASURED<br>AMOUNT<br>(ug/m3) | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|--------------------|-------------------------------|----------------------------------|----------------------------|-------------------------------|---------------------|--------------------|
| Benzene            | 10.0                          | 9.12                             | 32                         | 29                            | 91                  | 70 - 130           |
| Toluene            | 10.0                          | 8.77                             | 38                         | 33                            | 88                  | 70 - 130           |
| Trichloroethene    | 10.0                          | 9.69                             | 54                         | 52                            | 97                  | 70 - 130           |
| Chlorobenzene      | 10.0                          | 8.99                             | 46                         | 41                            | 90                  | 70 - 130           |
| 1,1-Dichloroethene | 10.0                          | 9.76                             | 40                         | 39                            | 98                  | 70 - 130           |

| SURROGATE             | PERCENT<br>RECOVERY | LABORATORY<br>CONTROL<br>LIMITS (%) |
|-----------------------|---------------------|-------------------------------------|
| 1,2-Dichloroethane-d4 | 109                 | 70 - 130                            |
| Toluene-d8            | 98                  | 70 - 130                            |
| 4-Bromofluorobenzene  | 101                 | 70 - 130                            |

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)\*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) \* Dilution Factor) \* (Molecular Weight/24.45)

## Sample Receipt Documentation





# STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: URS Project: NYSDS N. FRANKLIN ST. Lot Number: ASD2101110

| Review Items                                                                                                                                           | Yes                                 | No | NA                                  | If No, what was the problem?                                                                                                                                                                                                                                                                                              | Comments/Actions Taken |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1. Do sample container labels match COC?<br>(IDs, Dates, Times)                                                                                        | <input checked="" type="checkbox"/> |    |                                     | <input type="checkbox"/> 1a Do not match COC<br><input type="checkbox"/> 1b Incomplete information<br><input type="checkbox"/> 1c Marking smeared<br><input type="checkbox"/> 1d Label torn<br><input type="checkbox"/> 1e No label<br><input type="checkbox"/> 1f COC not received<br><input type="checkbox"/> 1g Other: |                        |
| 2. Is the cooler temperature within limits?<br>(North Carolina, 1668, 1613B: 0-4°C; VOST: 10°C)<br>(Cooler temp should be used only if no temp blank.) |                                     |    | <input checked="" type="checkbox"/> | <input type="checkbox"/> 2a Temp Blank = _____<br><input type="checkbox"/> 2b Cooler Temp = _____                                                                                                                                                                                                                         |                        |
| 3. Were samples received with correct chemical preservative (excluding Encore)?                                                                        |                                     |    | <input checked="" type="checkbox"/> | <input type="checkbox"/> 3a Sample preservative =                                                                                                                                                                                                                                                                         |                        |
| 4. Were custody seals present/intact on cooler and/or containers?                                                                                      | <input checked="" type="checkbox"/> |    |                                     | <input type="checkbox"/> 4a Not present<br><input type="checkbox"/> 4b Not intact<br><input type="checkbox"/> 4c Other:                                                                                                                                                                                                   |                        |
| 5. Were all of the samples listed on the COC received?                                                                                                 | <input checked="" type="checkbox"/> |    |                                     | <input type="checkbox"/> 5a Samples received-not on COC<br><input type="checkbox"/> 5b Samples not received-on COC                                                                                                                                                                                                        |                        |
| 6. Were all of the sample containers received intact?                                                                                                  | <input checked="" type="checkbox"/> |    |                                     | <input type="checkbox"/> 6a Leaking<br><input type="checkbox"/> 6b Broken                                                                                                                                                                                                                                                 |                        |
| 7. Were VOA samples received without headspace?                                                                                                        |                                     |    | <input checked="" type="checkbox"/> | <input type="checkbox"/> 7a Headspace (VOA only)                                                                                                                                                                                                                                                                          |                        |
| 8. Were samples received in appropriate containers?                                                                                                    | <input checked="" type="checkbox"/> |    |                                     | <input type="checkbox"/> 8a Improper container                                                                                                                                                                                                                                                                            |                        |
| 9. Did you check for residual chlorine, if necessary?                                                                                                  |                                     |    | <input checked="" type="checkbox"/> | <input type="checkbox"/> 9a Could not be determined due to matrix interference                                                                                                                                                                                                                                            |                        |
| 10. Were samples received within holding time?                                                                                                         | <input checked="" type="checkbox"/> |    |                                     | <input type="checkbox"/> 10a Holding time expired                                                                                                                                                                                                                                                                         |                        |
| 11. For rad samples, was sample activity info. provided?                                                                                               |                                     |    | <input checked="" type="checkbox"/> | <input type="checkbox"/> Incomplete information                                                                                                                                                                                                                                                                           |                        |
| 12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?                                                       |                                     |    | <input checked="" type="checkbox"/> | If yes, was SOG notified? _____                                                                                                                                                                                                                                                                                           |                        |
| 13. Are the shipping containers intact?                                                                                                                | <input checked="" type="checkbox"/> |    |                                     | <input type="checkbox"/> 13a Leaking<br><input type="checkbox"/> 13b Other:                                                                                                                                                                                                                                               |                        |
| 14. Was COC relinquished? (Signed/Dated/Timed)                                                                                                         | <input checked="" type="checkbox"/> |    |                                     | <input type="checkbox"/> 14a Not relinquished by client                                                                                                                                                                                                                                                                   |                        |
| 15. Are tests/parameters listed for each sample?                                                                                                       | <input checked="" type="checkbox"/> |    |                                     | <input type="checkbox"/> 15a Incomplete information                                                                                                                                                                                                                                                                       |                        |
| 16. Is the matrix of the samples noted?                                                                                                                | <input checked="" type="checkbox"/> |    |                                     | <input type="checkbox"/> 15a Incomplete information                                                                                                                                                                                                                                                                       |                        |
| 17. Is the date/time of sample collection noted?                                                                                                       | <input checked="" type="checkbox"/> |    |                                     | <input type="checkbox"/> 15a Incomplete information                                                                                                                                                                                                                                                                       |                        |
| 18. Is the client and project name/# identified?                                                                                                       | <input checked="" type="checkbox"/> |    |                                     | <input type="checkbox"/> 15a Incomplete information                                                                                                                                                                                                                                                                       |                        |
| 19. Was the sampler identified on the COC?                                                                                                             | <input checked="" type="checkbox"/> |    |                                     | <input type="checkbox"/> 15a Incomplete information                                                                                                                                                                                                                                                                       |                        |
| Quote #: <u>5957</u> PM Instructions: _____                                                                                                            |                                     |    |                                     |                                                                                                                                                                                                                                                                                                                           |                        |

Sample Receiving Associate: Andrew D. Allen Date: 04/21/05 QA026R15.doc, 11/15/04