



**CONESTOGA-ROVERS  
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November 28, 2012

Reference No. 007097

*Via email only (pdf)*

Mr. Peter Ramanauskas  
U.S. Environmental Protection Agency, Region 5  
77 West Jackson Blvd., LU-9J  
Chicago, Illinois 60604-3590

Dear Mr. Ramanauskas:

Re: RCRA Corrective Action - Releases associated with AOI 50 and an UST near AOI 53  
Pontiac Centerpoint Campus; Pontiac, Oakland County, Michigan  
U.S. EPA No. MID 005 356 902

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This letter was prepared by Conestoga-Rovers & Associates, Inc. (CRA), on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, to provide the U.S. Environmental Protection Agency (EPA) with data related to the investigation of the releases associated with the AOI 50 (DUCO Stores) and an UST near AOI 53. The ultimate goal is to have the EPA include both these AOIs in a facility-wide Resource Conservation and Recovery Act (RCRA) Corrective Action (CA) Complete with Controls (CACC) determination. It is noted that in the Michigan Department of Environmental Quality (MDEQ) Underground Storage Tank Program there are confirmed releases numbered C-0235-90, C-0776-90, and C-1831-91 related to AOI 50 and C-0014-12 related to AOI 53. Per communications among EPA, MDEQ, and RACER, it is understood that MDEQ will "close" the release numbers upon EPA approval of a CACC that includes AOI 50 and the release from the UST near AOI 53. See Figure 1 for a Site location map of the Pontiac Centerpoint Campus. See Figure 2 for a Site map of PCC-West showing locations of the two release areas.

## **1.0 BACKGROUND**

In 1998, GM began RCRA Corrective Action activities at the Pontiac Centerpoint Campus (PCC) U.S. EPA No. MID 005 356 902 under an EPA Consent Order. RACER's Pontiac West property is a portion of PCC. The EPA issued a Final Decision in 2006 for the facility under the RCRA Corrective Action program identifying corrective measures for the release at DUCO Stores would be addressed under the closure requirements of Michigan Act 451, Part 213. General Motors (GM) undertook various actions to investigate and remediate the releases at DUCO Stores under Michigan Act 451, Part 213 requirements. In October 2010, A Leaking Underground Storage Tank Closure Report (Closure Report) for DUCO Stores (confirmed releases C-0235-90, C-0776-90, C-1831-91) was submitted to the Michigan Department of Environmental Quality (MDEQ). In letters dated April 20, 2011 and June 20, 2011, the MDEQ completed an audit of corrective actions to the Closure Report.

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In an email dated March 14, 2012, RACER confirmed that the EPA and MDEQ agreed to address the confirmed releases associated with DUCO Stores through the RCRA Corrective Action process. On February 10, 2012, CRA submitted a letter to the EPA addressing the comments from the MDEQ audit of corrective actions. In response to the February 10, 2012 letter, the EPA requested an investigation of chlorinated volatile organic compound (VOCs) impacts located west of the former UST excavation area in the former Hazardous Material Handling Storage Pad (hazardous pad) and VOC impacts located east of the former UST footprint directly across from SB-6-08 and SB-1-08.

In February 2012, two 12,000 gallon USTs were removed and impacted pea gravel was encountered near the fill-port side of the gasoline UST. A confirmed release (C-0014-12) was reported to the MDEQ on February 24, 2012. On April 11, 2012, RACER requested CRA to complete a scope of work to investigate a confirmed release (C-0014-12) associated with an UST near AOI 53 through the RCRA Corrective Action process. A scope of work to investigate the VOC impacts associated with DUCO Stores and a confirmed release associated with recently removed USTs near AOI 53 was provided to the EPA on April 16, 2012 and approved via email on June 8, 2012. Prior to field work, an updated Quality Assurance Project Plan (QAPP) dated June 20, 2012 was signed by the EPA on July 10, 2012 and July 12, 2012.

## **2.0 UST INVESTIGATION NEAR AOI 53**

A field investigation was conducted on August 1, 2012 to collect soil and groundwater samples to confirm impacts were removed during the UST removal activities. See Figure 3 for a Site map with soil boring locations associated with the investigation near AOI 53. See Tables 1 and 2 for soil and groundwater analytical results compared against Part 201 Cleanup Criteria. See Attachment 1 for the soil boring logs near AOI 53.

### ***Investigation:***

Five soil borings were installed utilizing Direct Push technology in and around the perimeter of the former UST basin. Soil borings were installed to the north (SB-14-12), south (SB-12-12), east (SB-13-12) and west (SB-11-12) of the UST excavation area to collect sidewall samples and delineate impacts. One soil sample was collected from each soil boring at a depth interval of 6 to 8 feet (ft) below ground surface (bgs) to represent the middle of the former sidewall. Also, one soil boring (SB-15-12) was installed in the middle of the former UST basin and a soil sample was collected from 4 to 6 ft bgs to assess the backfill material.



One soil boring (SB-12-12 located in the down gradient direction) was converted into a temporary monitoring well to assess potential impact to groundwater. As specified in the work plan, a soil boring was completed within the tank basin until refusal was encountered at the tank concrete hold-down pad (12 ft bgs) and converted into a temporary monitoring well (screened from approximately 7 to 12 ft bgs). The well did not produce groundwater; therefore, no sample was collected. The temporary monitoring wells were constructed using a 1-inch diameter, 5-foot long, machine slotted 0.010-inch, polyvinyl chloride (PVC) well screens threaded to a 1-inch diameter PVC riser extending above the ground surface. Upon completion, the temporary monitoring wells were developed (when possible) to a generally silt free condition. The well associated with SB-12-12 was sampled using a peristaltic pump and low flow sampling techniques. After sampling from temporary monitoring well located at SB-12-12, the wells were removed and backfilled with bentonite.

***Results:***

Soil and groundwater samples were collected in laboratory supplied containers for analysis at TestAmerica Laboratories, Inc. (TestAmerica) for unleaded gasoline VOC parameters. Analytical results indicated concentrations of soil and groundwater samples were below MDEQ Part 201 Cleanup Criteria except methylene chloride. Methylene chloride was detected in soil samples collected from SB-11-12 and SB-15-12. The detections were flagged to indicate a laboratory contaminate in the blank sample. It is likely the elevated results of the methylene chloride are a result of laboratory contaminants and not impacts from the former gasoline UST.

***Conclusion:***

Based on the analytical results from confirmatory soil and groundwater samples, CRA, on behalf of RACER, recommends no further action with respect to the subject release.

**3.0 INVESTIGATION AT DUCO STORES (AOI 50)**

On July 30, 31 and August 1, 2012, a field investigation was completed to address chlorinated VOC impacts located west of the former UST basin in the former hazardous waste storage pad location and VOC impacts located east of the former UST footprint directly across from SB-6-08 and SB-1-08. During the investigation, seven soil samples were put on hold pending analysis. The samples exceeded their hold time and the locations were re-sampled on October 2, 2012. See Figure 4 for a Site map with soil boring locations associated with the DUCO Stores investigation. See Figure 5 for a Site map with soil analytical results. See Table 3 for soil analytical results compared against Part 201 Cleanup Criteria. See Attachment 2 for the soil boring logs associated with DUCO Stores.



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### ***Investigation:***

On July 30, 31 and August 1, 2012, ten soil borings were installed utilizing Direct Push technology. Soil samples were collected from eight soil borings (SB-1-10 through SB-8-12) to address historic chlorinated VOC impacts near the former hazardous pad. In addition, soil samples were collected from two soil borings (SB-9-12 and SB-10-12) installed directly east of SB-6-08 and SB-1-08 to address gasoline VOC impacts. During the investigation, field evidence of impact was identified at soil borings SB-4-12, SB-5-12 and SB-9-12 and an additional soil sample was collected at each boring to vertically delineate potential impacts. Limited groundwater was encountered at each soil boring except SB-7-12 and SB-10-12; however, no groundwater was collected. Based on the thickness of the water-bearing unit (typically less than 2 feet), it was unlikely to yield enough groundwater to collect a sample.

Samples were shipped for laboratory analysis of TCL VOCs and gasoline VOC parameters. Six soil samples from SB-3-12 through SB-8-12 were put on hold pending analysis of soil samples collected from SB-1-12 through SB-2-12. Analytical results of SB-1-12 and SB-2-12 indicated the need to analyze samples collected from soil borings SB-3-12 through SB-8-12; however, the samples exceeded hold time and could not be analyzed. In addition, a soil sample collected from SB-9-12 was mistakenly put on hold and also exceeded its hold time.

On October 2, 2012, CRA re-mobilized to collect soil samples from boring locations that missed hold times. Seven soil borings (SB-16-12 through SB-22-12) were installed utilizing Direct Push technology within 1 foot of soil borings SB-3-12 through SB-9-12. Soil samples were collected from the soil borings from the same intervals as the previous investigation. The soil samples were shipped for laboratory analysis of TCL VOCs and gasoline VOCs.

### ***Results:***

Soil samples were collected in laboratory supplied containers for analysis at TestAmerica for TCL VOCs and gasoline VOC parameters. Analytical results indicated concentrations of soil samples were below MDEQ Part 201 Cleanup Criteria except the following:

- 1,1,1-Trichloroethane at SB-1-12 (10 to 12 ft bgs) exceeded residential drinking water protection criteria (RDWPC), non-residential drinking water protection criteria (NRDWPC) and groundwater surface water interface criteria (GSI)
- 1,1-Dichloroethene at SB-16-12 (6 to 8 ft bgs) exceeded RDWPC, NRDWPC and residential soil volatilization to indoor air inhalation criteria (RSVIAIC)



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- Tetrachloroethene at SB-2-12 (4 to 6 ft bgs) and SB-21-12 (4.5 to 6.5 ft bgs) exceeded RDWPC and NRDWPC
- Trichloroethene at SB-1-12 (10 to 12 ft bgs) exceeded RDWPC, NRDWPC, GSI, RSVIAIC, non-residential soil volatilization to indoor air inhalation criteria (NRSVIAIC)
- Trichloroethene at SB-2-12 (4 to 6 ft bgs) exceeded RDWPC, NRDWPC, RSVIAIC and NRSVIAIC
- Trichloroethene at SB-16-12 (2 to 4 ft bgs) and SB-17-12 (10 to 12 ft bgs) exceeded RDWPC and NRDWPC
- Vinyl chloride at SB-22-12 (10 to 12 ft bgs) exceeded RDWPC and NRDWPC

See Attachment 3 for the laboratory analytical reports.

***Conclusion:***

As part of the RCRA Corrective Action for the Facility, institutional controls to restrict land use to industrial/commercial uses and to restrict resource use to prevent shallow groundwater from being used for drinking water have been implemented throughout the majority of the Facility, including the Site. The implementation of these resource use restrictions was approved by the USEPA on April 21, 2006 as part of the Corrective Measures Proposal for the Facility.

An additional restrictive covenant (RC) was completed specific to DUCO Stores (Confirmed Releases C-0235-90, C-0776-90 and C-1831-91) in compliance with Michigan Act 451, Part 213 and is recorded with Oakland County as Liber 42390, Pages 712-731. The RC prohibits the construction of wells or other devices used to extract groundwater for consumption, irrigation or any other purpose except to evaluate groundwater quality, to remediate or short-term dewatering.

Based on the restrictions above, MDEQ Part 201 residential cleanup criteria and non-residential drinking water protection criterion are not applicable. Therefore, chlorinated VOC impacts are delineated to the north (SB-18-12), south (SB-21-12), east (up to the former UST excavation basin) and west (SB16-12 and SB-6-12). Soil from surface to 10 ft bgs has not been delineated at SB-1-12 and SB-2-12; however, no evidence of impact was encountered during the installation of the soil borings.

Vinyl chloride was encountered at SB-10-12; however, based on the site restrictions described above, vinyl chloride impacts are not above applicable criteria.



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***Recommendations:***

Based on the uncertainty of the fate of Building 34/53, an RC is recommended for the impacted area to require vapor barriers and/or vapor intrusion assessments prior to occupying that part of the building or in the event the building is demolished, prior to construction of any new building. See Figure 6 for the approximate area of the restrictive covenant for vapor intrusion.

Yours truly,

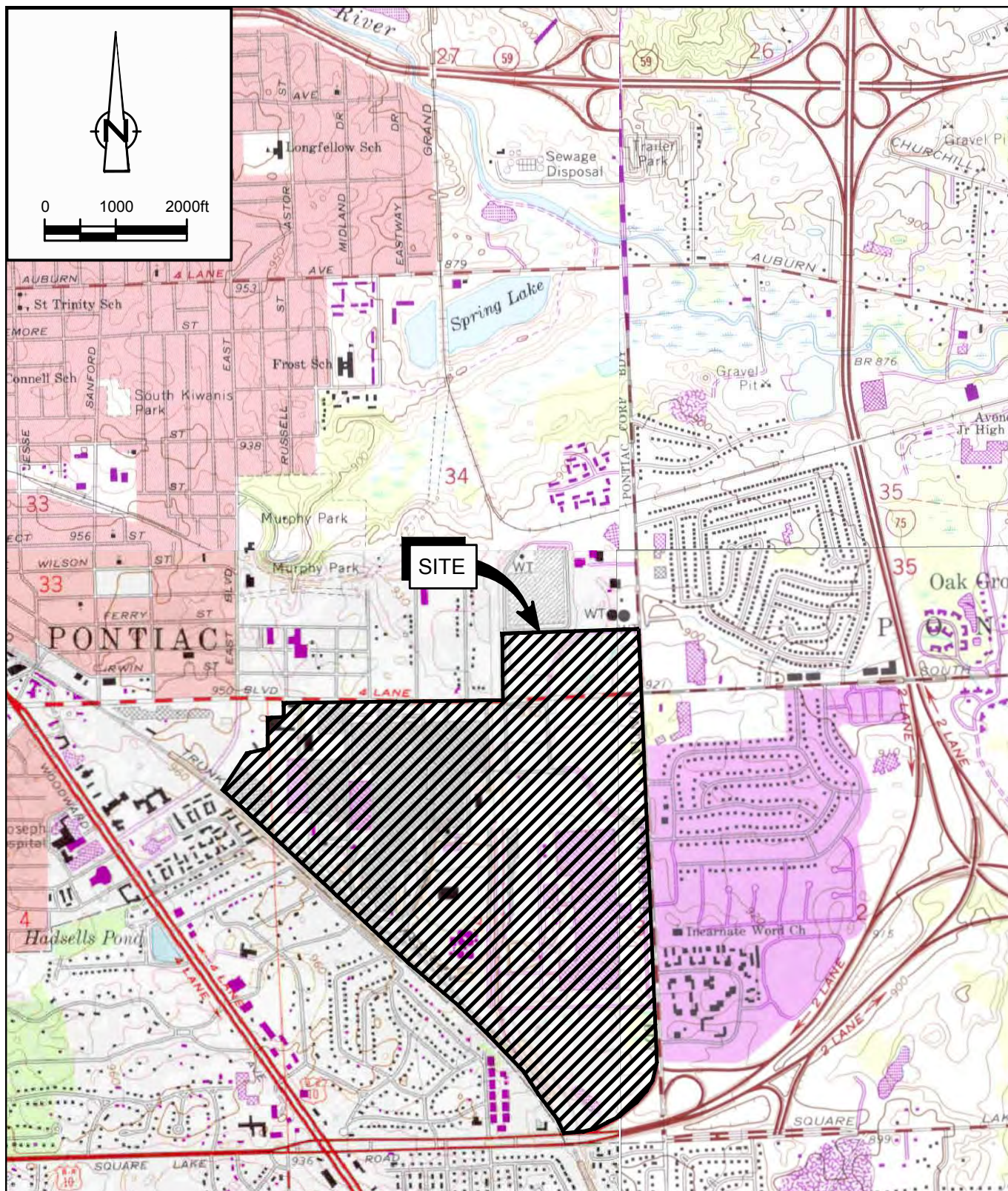
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Thomas M. Kinney, CP

TMK/MJC/ds/2/Det.  
Encl.

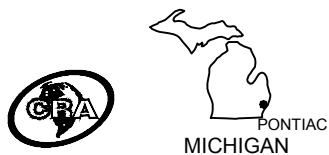
cc: Leonard Lipinski, MDEQ  
Grant Trigger, RACER  
Dave Favero, RACER

## FIGURES



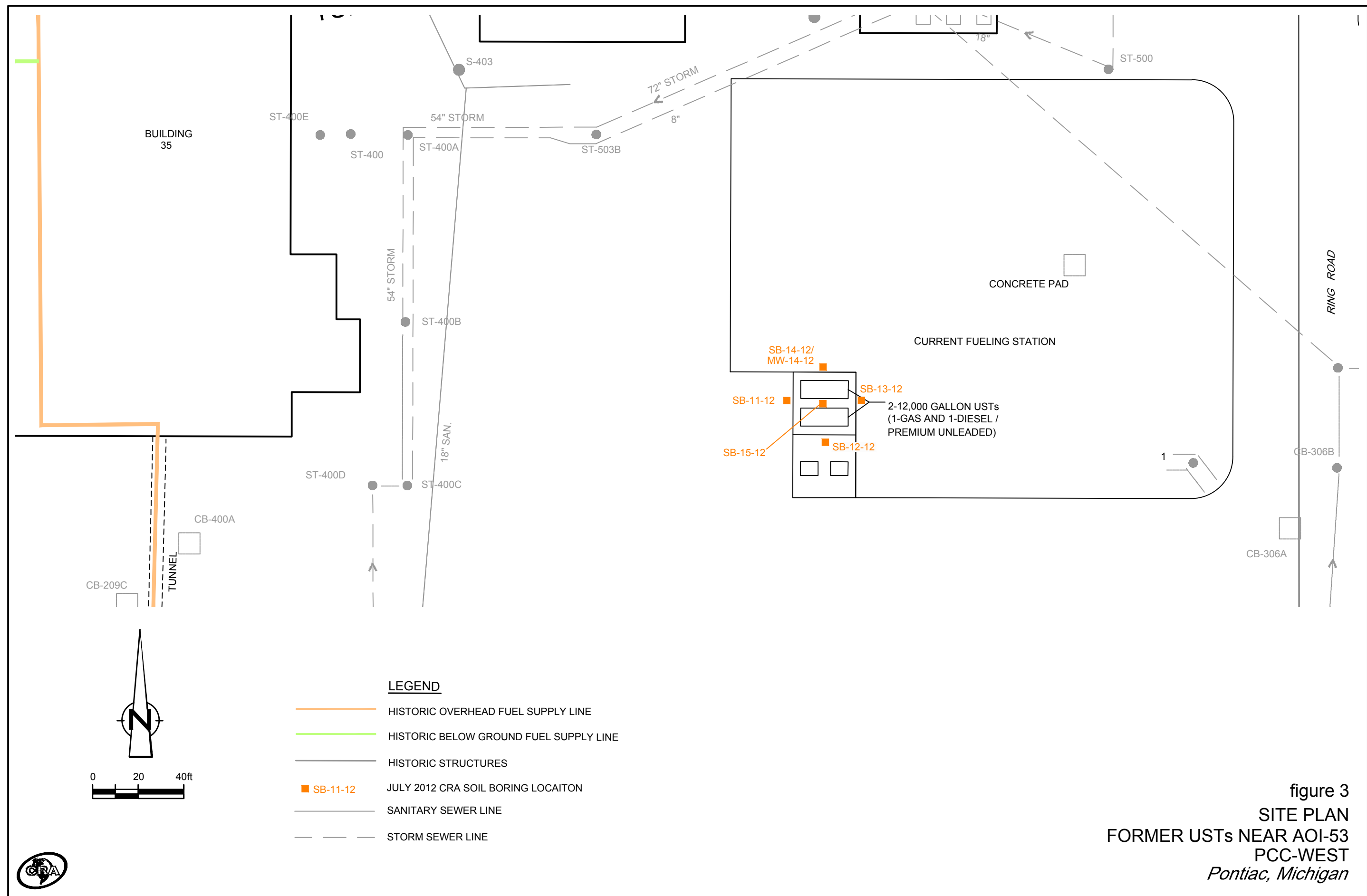
SOURCE USGS □ UADRANGLE MAPS □  
BIRMINGHAM, ROCHESTER, PONTIAC NORTH,  
AND PONTIAC SOUTH, MICHIGAN

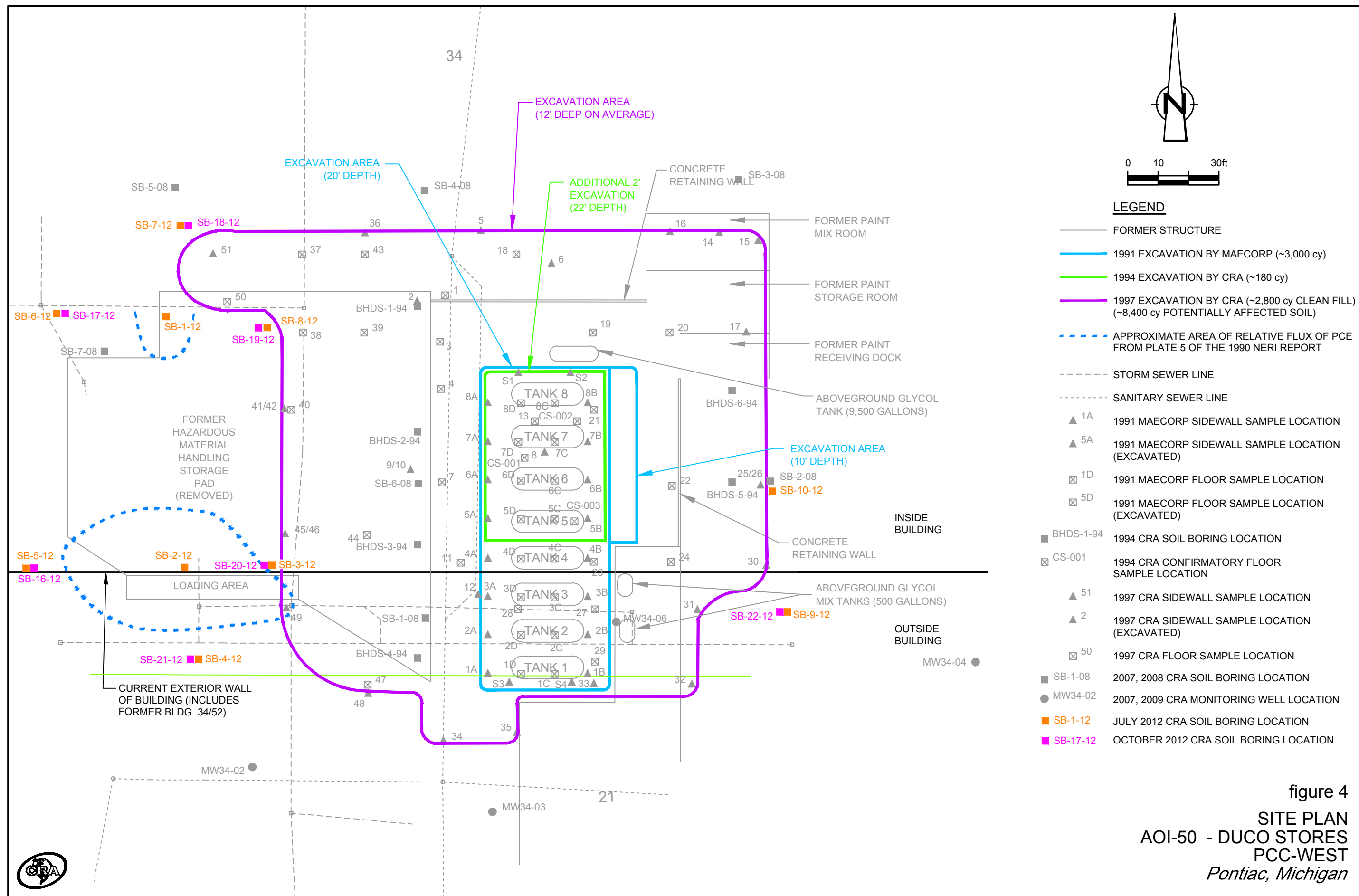
figure 1



**SITE LOCATION**  
**PONTIAC CENTERPOINT CAMPUS**  
*Pontiac, Michigan*







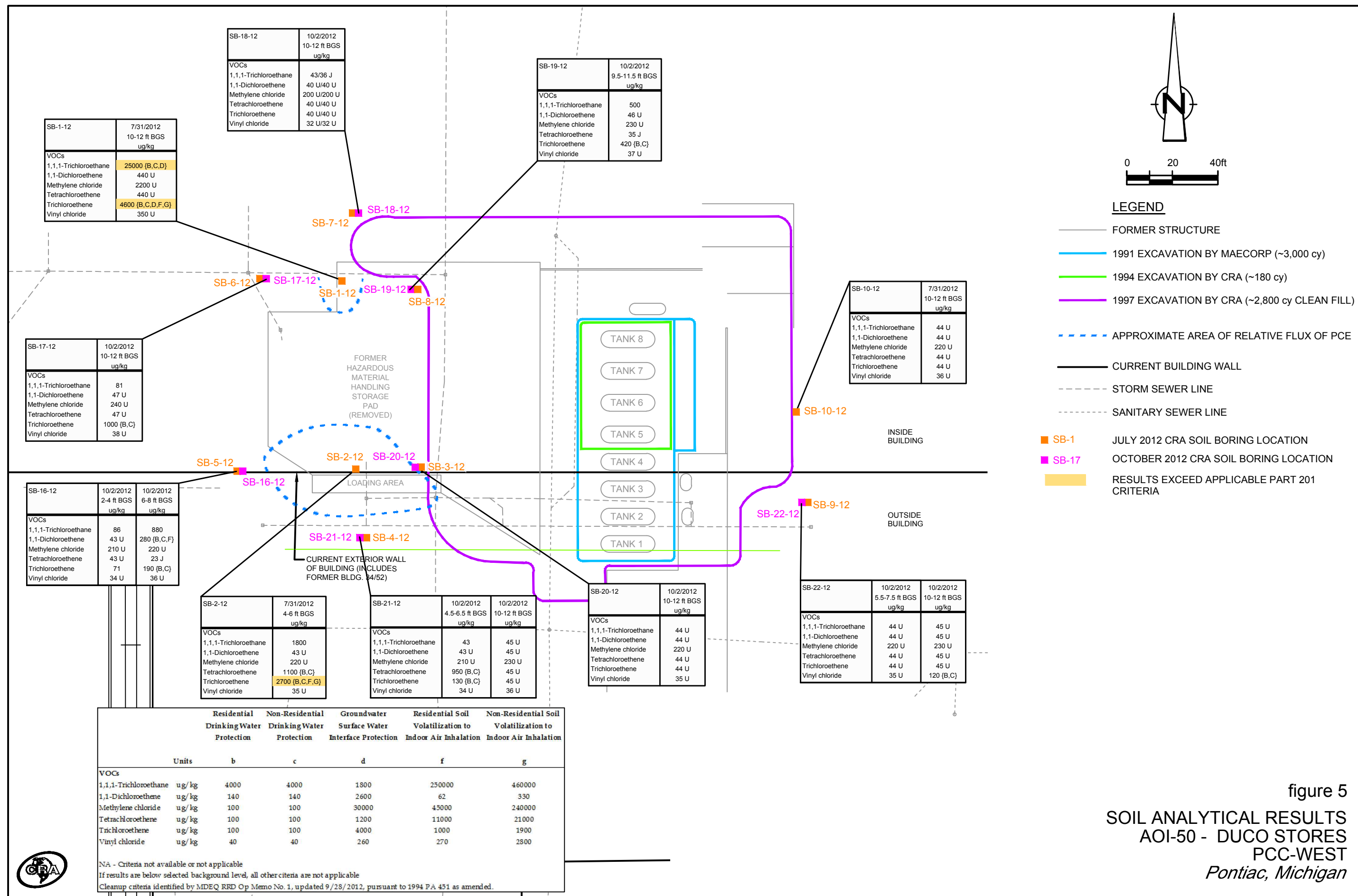
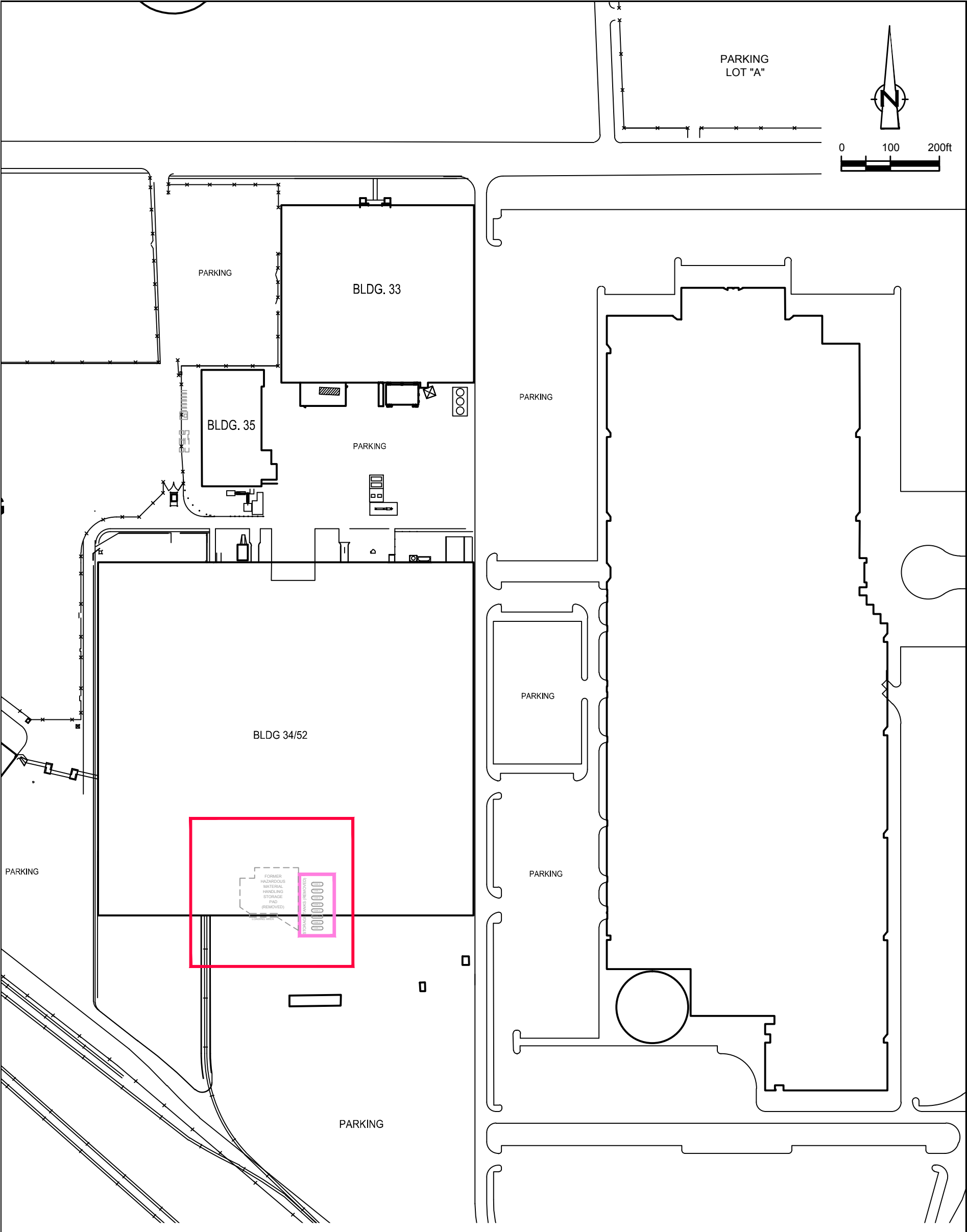


figure 5  
SOIL ANALYTICAL RESULTS  
AOI-50 - DUCO STORES  
PCC-WEST  
Pontiac, Michigan



**LEGEND**

- FORMER STRUCTURE
- APPROXIMATE AREA OF RESTRICTIVE COVENANT FOR VAPOR INTRUSION

figure 6  
APPROXIMATE AREA OF RESTRICTIVE COVENANT  
AOI-50 - DUOCO STORES  
PCC-WEST  
*Pontiac, Michigan*



## TABLES

TABLE 1

SOIL ANALYTICAL RESULTS  
FORMER USTS NEAR AOI 53  
PCC-WEST  
PONTIAC, MICHIGAN

|                                                                                                                               |                      |                 |                       |                        |                        |                       |                       |                       |                       |                       |                       |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-----------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic |                      |                 |                       |                        |                        |                       |                       |                       |                       |                       |                       |
| Sample Location:                                                                                                              | Cleanup Criteria (1) |                 |                       |                        |                        | SB-11-12              | SB-11-12              | SB-12-12              | SB-13-12              | SB-14-12              | SB-15-12              |
| Sample Depth:                                                                                                                 | Residential          | Non-Residential | Groundwater           | Residential            | Non-Residential        | 6-8 ft BGS            | 6-8 ft BGS            | 6-8 ft BGS            | 6-8 ft BGS            | 6-8 ft BGS            | 4-6 ft BGS            |
| Sample ID:                                                                                                                    | Drinking Water       | Drinking Water  | Surface Water         | Soil Volatilization to | Soil Volatilization to | SO-7097-073012-CB-009 | SO-7097-073012-CB-010 | SO-7097-073012-CB-007 | SO-7097-073112-CB-012 | SO-7097-073112-CB-013 | SO-7097-073012-CB-008 |
| Sample Date:                                                                                                                  | Protection           | Protection      | Interface Protection* | Indoor Air Inhalation  | Indoor Air Inhalation* | 07/30/2012            | 07/30/2012            | 07/30/2012            | 07/31/2012            | 07/31/2012            | 07/30/2012            |
| Sample Type:                                                                                                                  |                      |                 |                       |                        |                        |                       | Duplicate             |                       | Duplicate             |                       |                       |
| Parameters                                                                                                                    | Units                | b               | c                     | d                      | f                      | g                     |                       |                       |                       |                       |                       |
| VOCs                                                                                                                          |                      |                 |                       |                        |                        |                       |                       |                       | --                    |                       |                       |
| 1,1,1-Trichloroethane                                                                                                         | ug/kg                | 4000            | 4000                  | 1800                   | 250000                 | 460000                | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| 1,1,2,2-Tetrachloroethane                                                                                                     | ug/kg                | 170             | 700                   | 1600 X                 | 4300                   | 23000                 | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| 1,1,2-Trichloroethane                                                                                                         | ug/kg                | 100             | 100                   | 6600 X                 | 4600                   | 24000                 | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| 1,1-Dichloroethane                                                                                                            | ug/kg                | 18000           | 50000                 | 15000                  | 230000                 | 430000                | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| 1,1-Dichloroethene                                                                                                            | ug/kg                | 140             | 140                   | 2600                   | 62                     | 330                   | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| 1,2,4-Trichlorobenzene                                                                                                        | ug/kg                | 4200            | 4200                  | 5900 X                 | 1100000 C              | 1100000 C             | 210 U                 | 210 U                 | 210 U                 | -                     | 190 U                 |
| 1,2,4-Trimethylbenzene                                                                                                        | ug/kg                | 2100            | 2100                  | 570                    | 110000 C               | 110000 C              | 85 U                  | 85 U                  | 82 U                  | 84 U                  | 200                   |
| 1,2-Dibromo-3-chloropropane (DBCP)                                                                                            | ug/kg                | 10 M            | 10 M                  | ID                     | 220                    | 1200 C                | 210 U                 | 210 U                 | 210 U                 | -                     | 190 U                 |
| 1,2-Dibromoethane (Ethylene dibromide)                                                                                        | ug/kg                | 20 M            | 20 M                  | 110 X                  | 670                    | 3600                  | 210 U                 | 210 U                 | 210 U                 | -                     | 190 U                 |
| 1,2-Dichlorobenzene                                                                                                           | ug/kg                | 14000           | 14000                 | 280                    | 210000 C               | 210000 C              | 85 U                  | 85 U                  | 82 U                  | -                     | 78 U                  |
| 1,2-Dichloroethane                                                                                                            | ug/kg                | 100             | 100                   | 7200 X                 | 2100                   | 11000                 | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| 1,2-Dichloropropane                                                                                                           | ug/kg                | 100             | 100                   | 4600 X                 | 4000                   | 7400                  | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| 1,3,5-Trimethylbenzene                                                                                                        | ug/kg                | 1800            | 1800                  | 1100                   | 94000 C                | 94000 C               | 85 U                  | 85 U                  | 82 U                  | 84 U                  | 74 J                  |
| 1,3-Dichlorobenzene                                                                                                           | ug/kg                | 170             | 480                   | 680                    | 26000                  | 48000                 | 85 U                  | 85 U                  | 82 U                  | -                     | 78 U                  |
| 1,4-Dichlorobenzene                                                                                                           | ug/kg                | 1700            | 1700                  | 360                    | 19000                  | 100000                | 85 U                  | 85 U                  | 82 U                  | -                     | 78 U                  |
| 2-Butanone (Methyl ethyl ketone) (MEK)                                                                                        | ug/kg                | 260000          | 760000                | 44000                  | 27000000 C             | 27000000 C            | 630 U                 | 640 U                 | 620 U                 | -                     | 580 U                 |
| 2-Hexanone                                                                                                                    | ug/kg                | 20000           | 58000                 | ID                     | 990000                 | 1800000               | 2100 U                | 2100 U                | 2100 U                | -                     | 1900 U                |
| 2-Methylnaphthalene                                                                                                           | ug/kg                | 57000           | 170000                | 4200                   | 2700000                | 4900000               | -                     | -                     | -                     | 260 U                 | 260 U                 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)                                                                          | ug/kg                | 36000           | 100000                | ID                     | 2700000 C              | 2700000 C             | 2100 U                | 2100 U                | 2100 U                | -                     | 1900 U                |
| Acetone                                                                                                                       | ug/kg                | 15000           | 42000                 | 34000                  | 110000000 C            | 110000000 C           | 630 U                 | 640 U                 | 170 J                 | -                     | 580 U                 |
| Benzene                                                                                                                       | ug/kg                | 100             | 100                   | 4000 X                 | 1600                   | 8400                  | 42 U                  | 43 U                  | 41 U                  | 42 U                  | 39 U                  |
| Bromodichloromethane                                                                                                          | ug/kg                | 1600 W          | 1600 W                | ID                     | 1200                   | 6400                  | 85 U                  | 85 U                  | 82 U                  | -                     | 78 U                  |
| Bromoform                                                                                                                     | ug/kg                | 1600 W          | 1600 W                | ID                     | 150000                 | 770000                | 85 U                  | 85 U                  | 82 U                  | -                     | 78 U                  |
| Bromomethane (Methyl bromide)                                                                                                 | ug/kg                | 200             | 580                   | 700                    | 860                    | 1600                  | 210 U                 | 210 U                 | 210 U                 | -                     | 190 U                 |
| Carbon disulfide                                                                                                              | ug/kg                | 16000           | 46000                 | ID                     | 76000                  | 140000                | 210 U                 | 210 U                 | 210 U                 | -                     | 190 U                 |
| Carbon tetrachloride                                                                                                          | ug/kg                | 100             | 100                   | 900 X                  | 190                    | 990                   | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| Chlorobenzene                                                                                                                 | ug/kg                | 2000            | 2000                  | 500                    | 120000                 | 220000                | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| Chloroethane                                                                                                                  | ug/kg                | 8600            | 34000                 | 22000 X                | 950000 C               | 950000 C              | 210 U                 | 210 U                 | 210 U                 | -                     | 190 U                 |
| Chloroform (Trichloromethane)                                                                                                 | ug/kg                | 1600 W          | 1600 W                | 7000                   | 7200                   | 38000                 | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| Chloromethane (Methyl chloride)                                                                                               | ug/kg                | 5200            | 22000                 | ID                     | 2300                   | 10000                 | 210 U                 | 210 U                 | 210 U                 | -                     | 190 U                 |
| cis-1,2-Dichloroethene                                                                                                        | ug/kg                | 1400            | 1400                  | 12000                  | 22000                  | 41000                 | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| cis-1,3-Dichloropropene                                                                                                       | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| Cyclohexane                                                                                                                   | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 1000 U                | 1000 U                | 990 U                 | -                     | 930 U                 |
| Dibromochloromethane                                                                                                          | ug/kg                | 1600 W          | 1600 W                | ID                     | 3900                   | 21000                 | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| Dichlorodifluoromethane (CFC-12)                                                                                              | ug/kg                | 95000           | 270000                | ID                     | 900000                 | 1700000               | 85 U                  | 85 U                  | 82 U                  | -                     | 78 U                  |
| Ethylbenzene                                                                                                                  | ug/kg                | 1500            | 1500                  | 360                    | 87000                  | 140000 C              | 42 U                  | 43 U                  | 41 U                  | 42 U                  | 19 J                  |
| Isopropyl benzene                                                                                                             | ug/kg                | 91000           | 260000                | 3200                   | 390000 C               | 390000 C              | 210 U                 | 210 U                 | 210 U                 | -                     | 190 U                 |
| Methyl acetate                                                                                                                | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 1000 U                | 1000 U                | 990 U                 | -                     | 930 U                 |
| Methyl cyclohexane                                                                                                            | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 1000 U                | 1000 U                | 990 U                 | -                     | 930 U                 |
| Methyl tert butyl ether (MTBE)                                                                                                | ug/kg                | 800             | 800                   | 140000 X               | 5900000 C              | 5900000 C             | 210 U                 | 210 U                 | 210 U                 | 210 U                 | 190 U                 |
| Methylene chloride                                                                                                            | ug/kg                | 100             | 100                   | 30000 X                | 45000                  | 240000                | 110 JB <sup>bc</sup>  | 130 JB <sup>bc</sup>  | 94 JB                 | -                     | 110 JB <sup>bc</sup>  |
| Naphthalene                                                                                                                   | ug/kg                | 35000           | 100000                | 730                    | 250000                 | 470000                | -                     | -                     | -                     | 260 U                 | 260 U                 |
| Styrene                                                                                                                       | ug/kg                | 2700            | 2700                  | 2100 X                 | 250000                 | 520000 C              | 42 U                  | 43 U                  | 41 U                  | -                     | 8.8 J                 |
| Tetrachloroethene                                                                                                             | ug/kg                | 100             | 100                   | 1200 X                 | 11000                  | 21000                 | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| Toluene                                                                                                                       | ug/kg                | 16000           | 16000                 | 5400                   | 250000 C               | 250000 C              | 85 U                  | 85 U                  | 82 U                  | 84 U                  | 18 J                  |
| trans-1,2-Dichloroethene                                                                                                      | ug/kg                | 2000            | 2000                  | 30000 X                | 23000                  | 43000                 | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| trans-1,3-Dichloropropene                                                                                                     | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| Trichloroethene                                                                                                               | ug/kg                | 100             | 100                   | 4000 X                 | 1000                   | 1900                  | 42 U                  | 43 U                  | 41 U                  | -                     | 39 U                  |
| Trichlorofluoromethane (CFC-11)                                                                                               | ug/kg                | 52000           | 150000                |                        | 560000 C               | 560000 C              | 85 U                  | 85 U                  | 82 U                  | -                     | 78 U                  |
| Trifluorotrichloroethane (Freon 113)                                                                                          | ug/kg                | 550000 C        | 550000 C              | 1700                   | 550000 C               | 550000 C              | 210 U                 | 210 U                 | 210 U                 | -                     | 190 U                 |
| Vinyl chloride                                                                                                                | ug/kg                | 40              | 40                    | 260 X                  | 270                    | 2800                  | 34 U                  | 34 U                  | 33 U                  | -                     | 31 U                  |
| Xylenes (total)                                                                                                               | ug/kg                | 5600            | 5600                  | 820                    | 150000 C               | 150000 C              | 130 U                 | 130 U                 | 120 U                 | 130 U                 | 78 J                  |

Notes:

If results are below select background level, all other criteria are not applicable

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The associated value is qualified as an estimated quantity.

UJ The analyte was reported or qualified as not detected however, the sample report limit is qualified as an estimated value and may be inaccurate or imprecise.

(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 9/28/2012, pursuant to 1994 PA 451 as amended.

NA - Criteria not available or not applicable

- Not analyzed

|  |                                                                         |
|--|-------------------------------------------------------------------------|
|  | - Indicates concentration exceeded Part 201 Cleanup Criteria            |
|  | - Indicates concentration exceeded applicable Part 201 Cleanup Criteria |

\* - Indicates applicable Part 201 Cleanup Criteria

TABLE 2

**GROUNDWATER ANALYTICAL RESULTS  
FORMER USTS NEAR AOI 53  
PCC-WEST  
PONTIAC, MICHIGAN**

| <i>Sample Location:</i>        |              | <i>Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels:<br/>Residential and Non-Residential Generic Cleanup Criteria (1)</i> |                        |                      | <i>SB-14-12</i>              | <i>SB-14-12</i>              |
|--------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------|------------------------------|------------------------------|
| <i>Sample ID:</i>              |              | <i>Residential</i>                                                                                                                                            | <i>Non-Residential</i> | <i>Groundwater</i>   | <i>GW-7097-080112-CB-023</i> | <i>GW-7097-080112-CB-024</i> |
| <i>Sample Date:</i>            |              | <i>Drinking Water</i>                                                                                                                                         | <i>Drinking Water</i>  | <i>Surface Water</i> | <i>08/01/2012</i>            | <i>08/01/2012</i>            |
| <i>Sample Type:</i>            |              |                                                                                                                                                               |                        | <i>Interface*</i>    |                              | <i>Duplicate</i>             |
| <i>Parameters</i>              | <i>Units</i> | <i>a</i>                                                                                                                                                      | <i>b</i>               | <i>c</i>             |                              |                              |
| <b>VOCs</b>                    |              |                                                                                                                                                               |                        |                      |                              |                              |
| 1,2,4-Trimethylbenzene         | ug/L         | 63 E                                                                                                                                                          | 63 E                   | 17                   | 1.0 U                        | 1.0 U                        |
| 1,3,5-Trimethylbenzene         | ug/L         | 72 E                                                                                                                                                          | 72 E                   | 45                   | 1.0 U                        | 1.0 U                        |
| 2-Methylnaphthalene            | ug/L         | 260                                                                                                                                                           | 750                    | 19                   | 5.0 U                        | 5.0 U                        |
| Benzene                        | ug/L         | 5 A                                                                                                                                                           | 5 A                    | 200 X                | 1.0 U                        | 1.0 U                        |
| Ethylbenzene                   | ug/L         | 74 E                                                                                                                                                          | 74 E                   | 18                   | 1.0 U                        | 1.0 U                        |
| Methyl tert butyl ether (MTBE) | ug/L         | 40 E                                                                                                                                                          | 40 E                   | 7100 X               | 5.0 U                        | 5.0 U                        |
| Naphthalene                    | ug/L         | 520                                                                                                                                                           | 1500                   | 11                   | 5.0 U                        | 5.0 U                        |
| Toluene                        | ug/L         | 790 E                                                                                                                                                         | 790 E                  | 270                  | 1.0 U                        | 1.0 U                        |
| Xylenes (total)                | ug/L         | 280 E                                                                                                                                                         | 280 E                  | 41                   | 2.0 U                        | 2.0 U                        |

Notes:

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 9/28/2012, pursuant to 1994 PA 451 as amended.

NA - Criteria not available or not applicable

|  |                                                              |
|--|--------------------------------------------------------------|
|  | - Indicates concentration exceeded Part 201 Cleanup Criteria |
|--|--------------------------------------------------------------|

|  |                                                                          |
|--|--------------------------------------------------------------------------|
|  | - Indicates concentration exceeded applicable Part 201 Cleanup Criteria. |
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\* - Indicates applicable Part 201 Cleanup Criteria.

TABLE 3

SOIL ANALYTICAL RESULTS  
AOI 50 - DUCO STORES  
PCC-WEST  
PONTIAC, MICHIGAN

| Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic |                      |                 |                       |                        |                        |                       |                        |                        |                       |                       |                       |                       |              |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-----------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------|
| Sample Location:                                                                                                              | Cleanup Criteria (1) |                 |                       |                        |                        |                       | SB-1-12                | SB-2-12                | SB-10-12              | SB-16-12              | SB-16-12              | SB-17-12              | SB-18-12     |
| Sample Depth:                                                                                                                 | Residential          | Non-Residential | Groundwater           | Residential            | Non-Residential        | 10-12 ft BGS          | 4-6 ft BGS             | 10-12 ft BGS           | 2-4 ft BGS            | 6-8 ft BGS            | 10-12 ft BGS          | 10-12 ft BGS          | 10-12 ft BGS |
| Sample ID:                                                                                                                    | Drinking Water       | Drinking Water  | Surface Water         | Soil Volatilization to | Soil Volatilization to | SO-7097-073112-CB-019 | SO-7097-073112-CB-018  | SO-7097-073112-CB-021  | S-007097-10212-MC-026 | S-007097-10212-MC-027 | S-007097-10212-MC-028 | S-007097-10212-MC-029 |              |
| Sample Date:                                                                                                                  | Protection           | Protection      | Interface Protection* | Indoor Air Inhalation  | Indoor Air Inhalation* | 07/31/2012            | 07/31/2012             | 07/31/2012             | 10/02/2012            | 10/02/2012            | 10/02/2012            | 10/02/2012            |              |
| Sample Type:                                                                                                                  |                      |                 |                       |                        |                        |                       |                        |                        |                       |                       |                       |                       |              |
| Parameters                                                                                                                    | Units                | b               | c                     | d                      | f                      | g                     |                        |                        |                       |                       |                       |                       |              |
| VOCs                                                                                                                          |                      |                 |                       |                        |                        |                       |                        |                        |                       |                       |                       |                       |              |
| 1,1,1-Trichloroethane                                                                                                         | ug/kg                | 4000            | 4000                  | 1800                   | 250000                 | 460000                | 25000 <sup>bcd</sup>   | 1800                   | 44 U                  | 86                    | 880                   | 81                    | 36 J         |
| 1,1,2,2-Tetrachloroethane                                                                                                     | ug/kg                | 170             | 700                   | 1600 X                 | 4300                   | 23000                 | 440 U                  | 43 U                   | 44 U                  | 43 U                  | 44 U                  | 47 U                  | 40 U         |
| 1,1,2-Trichloroethane                                                                                                         | ug/kg                | 100             | 100                   | 6600 X                 | 4600                   | 24000                 | 440 U                  | 43 U                   | 44 U                  | 43 U                  | 44 U                  | 47 U                  | 40 U         |
| 1,1-Dichloroethane                                                                                                            | ug/kg                | 18000           | 50000                 | 15000                  | 230000                 | 430000                | 11000                  | 43 U                   | 44 U                  | 36 J                  | 140                   | 47 U                  | 40 U         |
| 1,1-Dichloroethene                                                                                                            | ug/kg                | 140             | 140                   | 2600                   | 62                     | 330                   | 440 U                  | 43 U                   | 44 U                  | 43 U                  | 280 <sup>bcd</sup>    | 47 U                  | 40 U         |
| 1,2,4-Trichlorobenzene                                                                                                        | ug/kg                | 4200            | 4200                  | 5900 X                 | 1100000 C              | 1100000 C             | 2200 U                 | 220 U                  | 220 U                 | 210 U                 | 220 U                 | 240 U                 | 200 U        |
| 1,2,4-Trimethylbenzene                                                                                                        | ug/kg                | 2100            | 2100                  | 570                    | 110000 C               | 110000 C              | 180 J                  | 87 U                   | 89 U                  | 77 J                  | 18 J                  | 95 U                  | 81 U         |
| 1,2-Dibromo-3-chloropropane (DBCP)                                                                                            | ug/kg                | 10 M            | 10 M                  | ID                     | 220                    | 1200 C                | 2200 U                 | 220 U                  | 220 U                 | 210 U                 | 220 U                 | 240 U                 | 200 U        |
| 1,2-Dibromoethane (Ethylene dibromide)                                                                                        | ug/kg                | 20 M            | 20 M                  | 110 X                  | 670                    | 3600                  | 2200 U                 | 220 U                  | 220 U                 | 210 U                 | 220 U                 | 240 U                 | 200 U        |
| 1,2-Dichlorobenzene                                                                                                           | ug/kg                | 14000           | 14000                 | 280                    | 210000 C               | 210000 C              | 870 U                  | 87 U                   | 89 U                  | 85 U                  | 89 U                  | 95 U                  | 81 U         |
| 1,2-Dichloroethane                                                                                                            | ug/kg                | 100             | 100                   | 7200 X                 | 2100                   | 11000                 | 440 U                  | 43 U                   | 44 U                  | 43 U                  | 44 U                  | 47 U                  | 40 U         |
| 1,2-Dichloropropane                                                                                                           | ug/kg                | 100             | 100                   | 4600 X                 | 4000                   | 7400                  | 440 U                  | 43 U                   | 44 U                  | 43 U                  | 44 U                  | 47 U                  | 40 U         |
| 1,3,5-Trimethylbenzene                                                                                                        | ug/kg                | 1800            | 1800                  | 1100                   | 94000 C                | 94000 C               | 870 U                  | 87 U                   | 89 U                  | 85 U                  | 89 U                  | 95 U                  | 81 U         |
| 1,3-Dichlorobenzene                                                                                                           | ug/kg                | 170             | 480                   | 680                    | 26000                  | 48000                 | 870 U                  | 87 U                   | 89 U                  | 85 U                  | 89 U                  | 95 U                  | 81 U         |
| 1,4-Dichlorobenzene                                                                                                           | ug/kg                | 1700            | 1700                  | 360                    | 19000                  | 100000                | 870 U                  | 87 U                   | 89 U                  | 85 U                  | 89 U                  | 95 U                  | 81 U         |
| 2-Butanone (Methyl ethyl ketone) (MEK)                                                                                        | ug/kg                | 260000          | 760000                | 44000                  | 27000000 C             | 27000000 C            | 6600 U                 | 650 U                  | 670 U                 | 640 U                 | 670 U                 | 710 U                 | 610 U        |
| 2-Hexanone                                                                                                                    | ug/kg                | 20000           | 58000                 | ID                     | 990000                 | 1800000               | 22000 U                | 2200 U                 | 2200 U                | 2100 U                | 2200 U                | 2400 U                | 2000 U       |
| 2-Methylnaphthalene                                                                                                           | ug/kg                | 57000           | 170000                | 4200                   | 2700000                | 4900000               | -                      | -                      | -                     | 23 J                  | 33 J                  | 300 U                 | 250 U        |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)                                                                          | ug/kg                | 36000           | 100000                | ID                     | 2700000 C              | 2700000 C             | 22000 U                | 2200 U                 | 2200 U                | 2100 U                | 2200 U                | 2400 U                | 2000 U       |
| Acetone                                                                                                                       | ug/kg                | 15000           | 42000                 | 34000                  | 110000000 C            | 110000000 C           | 6600 U                 | 650 U                  | 670 U                 | 640 U                 | 670 U                 | 710 U                 | 610 U        |
| Benzene                                                                                                                       | ug/kg                | 100             | 100                   | 4000 X                 | 1600                   | 8400                  | 440 U                  | 43 U                   | 44 U                  | 43 U                  | 44 U                  | 47 U                  | 40 U         |
| Bromodichloromethane                                                                                                          | ug/kg                | 1600 W          | 1600 W                | ID                     | 1200                   | 6400                  | 870 U                  | 87 U                   | 89 U                  | 85 U                  | 89 U                  | 95 U                  | 81 U         |
| Bromoform                                                                                                                     | ug/kg                | 1600 W          | 1600 W                | ID                     | 150000                 | 770000                | 870 U                  | 87 U                   | 89 U                  | 85 U                  | 89 U                  | 95 U                  | 81 U         |
| Bromomethane (Methyl bromide)                                                                                                 | ug/kg                | 200             | 580                   | 700                    | 860                    | 1600                  | 2200 U                 | 220 U                  | 220 U                 | 210 U                 | 220 U                 | 240 U                 | 200 U        |
| Carbon disulfide                                                                                                              | ug/kg                | 16000           | 46000                 | ID                     | 76000                  | 140000                | 2200 U                 | 220 U                  | 220 U                 | 210 U                 | 220 U                 | 240 U                 | 200 U        |
| Carbon tetrachloride                                                                                                          | ug/kg                | 100             | 100                   | 900 X                  | 190                    | 990                   | 440 U                  | 43 U                   | 44 U                  | 43 U                  | 44 U                  | 47 U                  | 40 U         |
| Chlorobenzene                                                                                                                 | ug/kg                | 2000            | 2000                  | 500                    | 120000                 | 220000                | 440 U                  | 43 U                   | 44 U                  | 43 U                  | 44 U                  | 47 U                  | 40 U         |
| Chloroethane                                                                                                                  | ug/kg                | 8600            | 34000                 | 22000 X                | 950000 C               | 950000 C              | 2200 U                 | 220 U                  | 220 U                 | 210 U                 | 220 U                 | 240 U                 | 200 U        |
| Chloroform (Trichloromethane)                                                                                                 | ug/kg                | 1600 W          | 1600 W                | 7000                   | 7200                   | 38000                 | 440 U                  | 43 U                   | 44 U                  | 43 U                  | 44 U                  | 47 U                  | 40 U         |
| Chloromethane (Methyl chloride)                                                                                               | ug/kg                | 5200            | 22000                 | ID                     | 2300                   | 10000                 | 2200 U                 | 220 U                  | 220 U                 | 210 U                 | 220 U                 | 240 U                 | 200 U        |
| cis-1,2-Dichloroethene                                                                                                        | ug/kg                | 1400            | 1400                  | 12000                  | 22000                  | 41000                 | 440 U                  | 23 J                   | 44 U                  | 43 U                  | 44 U                  | 47 U                  | 40 U         |
| cis-1,3-Dichloropropene                                                                                                       | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 440 U                  | 43 U                   | 44 U                  | 43 U                  | 44 U                  | 47 U                  | 40 U         |
| Cyclohexane                                                                                                                   | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 10000 U                | 1000 U                 | 1100 U                | 1000 U                | 1100 U                | 1100 U                | 970 U        |
| Dibromochloromethane                                                                                                          | ug/kg                | 1600 W          | 1600 W                | ID                     | 3900                   | 21000                 | 440 U                  | 43 U                   | 44 U                  | 43 U                  | 44 U                  | 47 U                  | 40 U         |
| Dichlorodifluoromethane (CFC-12)                                                                                              | ug/kg                | 95000           | 270000                | ID                     | 900000                 | 1700000               | 870 U                  | 87 U                   | 89 U                  | 85 U                  | 89 U                  | 95 U                  | 81 U         |
| Ethylbenzene                                                                                                                  | ug/kg                | 1500            | 1500                  | 360                    | 87000                  | 140000 C              | 440 U                  | 43 U                   | 44 U                  | 10 J                  | 44 U                  | 47 U                  | 40 U         |
| Isopropyl benzene                                                                                                             | ug/kg                | 91000           | 260000                | 3200                   | 390000 C               | 390000 C              | 2200 U                 | 220 U                  | 220 U                 | 23 J                  | 220 U                 | 240 U                 | 200 U        |
| Methyl acetate                                                                                                                | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 10000 U                | 1000 U                 | 1100 U                | 1000 U                | 170 J                 | 1100 U                | 970 U        |
| Methyl cyclohexane                                                                                                            | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 350 J                  | 1000 U                 | 1100 U                | 17 J                  | 13 J                  | 1100 U                | 970 U        |
| Methyl tert butyl ether (MTBE)                                                                                                | ug/kg                | 800             | 800                   | 140000 X               | 5900000 C              | 5900000 C             | 2200 U                 | 220 U                  | 220 U                 | 210 U                 | 220 U                 | 240 U                 | 200 U        |
| Methylene chloride                                                                                                            | ug/kg                | 100             | 100                   | 30000 X                | 45000                  | 240000                | 2200 U                 | 220 U                  | 220 U                 | 210 U                 | 220 U                 | 240 U                 | 200 U        |
| Naphthalene                                                                                                                   | ug/kg                | 35000           | 100000                | 730                    | 250000                 | 470000                | -                      | -                      | -                     | 29 J                  | 33 J                  | 300 U                 | 250 U        |
| Styrene                                                                                                                       | ug/kg                | 2700            | 2700                  | 2100 X                 | 250000                 | 520000 C              | 440 U                  | 43 U                   | 44 U                  | 43 U                  | 44 U                  | 47 U                  | 40 U         |
| Tetrachloroethene                                                                                                             | ug/kg                | 100             | 100                   | 1200 X                 | 11000                  | 21000                 | 440 U                  | 1100 <sup>bc</sup>     | 44 U                  | 43 U                  | 23 J                  | 47 U                  | 40 U         |
| Toluene                                                                                                                       | ug/kg                | 16000           | 16000                 | 5400                   | 250000 C               | 250000 C              | 870 U                  | 87 U                   | 89 U                  | 85 U                  | 25 J                  | 95 U                  | 81 U         |
| trans-1,2-Dichloroethene                                                                                                      | ug/kg                | 2000            | 2000                  | 30000 X                | 23000                  | 43000                 | 440 U                  | 43 U                   | 44 U                  | 43 U                  | 44 U                  | 47 U                  | 40 U         |
| trans-1,3-Dichloropropene                                                                                                     | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 440 U                  | 43 U                   | 44 U                  | 43 U                  | 44 U                  | 47 U                  | 40 U         |
| Trichloroethene                                                                                                               | ug/kg                | 100             | 100                   | 4000 X                 | 1000                   | 1900                  | 4600 <sup>bcdfig</sup> | 2700 <sup>bcdfig</sup> | 44 U                  | 71                    | 190 <sup>bc</sup>     | 1000 <sup>bc</sup>    | 40 U         |
| Trichlorofluoromethane (CFC-11)                                                                                               | ug/kg                | 52000           | 150000                |                        | 560000 C               | 560000 C              | 870 U                  | 87 U                   | 89 U                  | 85 U                  | 89 U                  | 95 U                  | 81 U         |
| Trifluorotrichloroethane (Freon 113)                                                                                          | ug/kg                | 550000 C        | 550000 C              | 1700                   | 550000 C               | 550000 C              | 2200 U                 | 220 U                  | 220 U                 | 210 U                 | 220 U                 | 240 U                 | 200 U        |
| Vinyl chloride                                                                                                                | ug/kg                | 40              | 40                    | 260 X                  | 270                    | 2800                  | 350 U                  | 35 U                   | 36 U                  | 34 U                  | 36 U                  | 38 U                  | 32 U         |
| Xylenes (total)                                                                                                               | ug/kg                | 5600            | 5600                  | 820                    | 150000 C               | 150000 C              | 130 J                  | 130 U                  | 130 U                 | 59 J                  | 53 J                  | 140 U                 | 120 U        |

Notes:

If results are below select background level, all other criteria are not applicable

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The associated value is qualified as an estimated quantity.

JB - Methylene Chloride was detected in method blank

(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 9/28/2012, pursuant to 1994 PA 451 as amended.

NA - Criteria not available or not applicable

- Not analyzed

- Indicates concentration exceeded Part 201 Cleanup Criteria

- Indicates concentration exceeded applicable Part 201 Cleanup Criteria.

\* - Indicates applicable Part 201 Cleanup Criteria

TABLE 3

SOIL ANALYTICAL RESULTS  
AOI 50 - DUCO STORES  
PCC-WEST  
PONTIAC, MICHIGAN

| Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic |                      |                 |                       |                        |                        |                       |                       |                       |                       |                       |                       |                       |       |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-----------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------|
| Sample Location:                                                                                                              | Cleanup Criteria (1) |                 |                       |                        |                        |                       | SB-18-12              | SB-19-12              | SB-20-12              | SB-21-12              | SB-21-12              | SB-22-12              |       |
| Sample Depth:                                                                                                                 | Residential          | Non-Residential | Groundwater           | Residential            | Non-Residential        | 10-12 ft BGS          | 9.5-11.5 ft BGS       | 10-12 ft BGS          | 10-12 ft BGS          | 4.5-6.5 ft BGS        | 10-12 ft BGS          | 5.5-7.5 ft BGS        |       |
| Sample ID:                                                                                                                    | Drinking Water       | Drinking Water  | Surface Water         | Soil Volatilization to | Soil Volatilization to | S-007097-10212-MC-030 | S-007097-10212-MC-031 | S-007097-10212-MC-032 | S-007097-10212-MC-034 | S-007097-10212-MC-033 | S-007097-10212-MC-036 | S-007097-10212-MC-035 |       |
| Sample Date:                                                                                                                  | Protection           | Protection      | Interface Protection* | Indoor Air Inhalation  | Indoor Air Inhalation* | 10/02/2012            | 10/02/2012            | 10/02/2012            | 10/02/2012            | 10/02/2012            | 10/02/2012            | 10/02/2012            |       |
| Sample Type:                                                                                                                  |                      |                 |                       |                        |                        | Duplicate             |                       |                       |                       |                       |                       |                       |       |
| Parameters                                                                                                                    | Units                | b               | c                     | d                      | f                      | g                     |                       |                       |                       |                       |                       |                       |       |
| VOCs                                                                                                                          |                      |                 |                       |                        |                        |                       |                       |                       |                       |                       |                       |                       |       |
| 1,1,1-Trichloroethane                                                                                                         | ug/kg                | 4000            | 4000                  | 1800                   | 250000                 | 460000                | 43                    | 500                   | 44 U                  | 45 U                  | 43                    | 45 U                  |       |
| 1,1,2,2-Tetrachloroethane                                                                                                     | ug/kg                | 170             | 700                   | 1600 X                 | 4300                   | 23000                 | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| 1,1,2-Trichloroethane                                                                                                         | ug/kg                | 100             | 100                   | 6600 X                 | 4600                   | 24000                 | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| 1,1-Dichloroethane                                                                                                            | ug/kg                | 18000           | 50000                 | 15000                  | 230000                 | 430000                | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| 1,1-Dichloroethene                                                                                                            | ug/kg                | 140             | 140                   | 2600                   | 62                     | 330                   | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| 1,2,4-Trichlorobenzene                                                                                                        | ug/kg                | 4200            | 4200                  | 5900 X                 | 1100000 C              | 1100000 C             | 200 U                 | 230 U                 | 220 U                 | 230 U                 | 210 U                 | 230 U                 |       |
| 1,2,4-Trimethylbenzene                                                                                                        | ug/kg                | 2100            | 2100                  | 570                    | 110000 C               | 110000 C              | 80 U                  | 93 U                  | 88 U                  | 18 J                  | 86 U                  | 71 J                  |       |
| 1,2-Dibromo-3-chloropropane (DBCP)                                                                                            | ug/kg                | 10 M            | 10 M                  | ID                     | 220                    | 1200 C                | 200 U                 | 230 U                 | 220 U                 | 230 U                 | 210 U                 | 230 U                 |       |
| 1,2-Dibromoethane (Ethylene dibromide)                                                                                        | ug/kg                | 20 M            | 20 M                  | 110 X                  | 670                    | 3600                  | 200 U                 | 230 U                 | 220 U                 | 230 U                 | 210 U                 | 230 U                 |       |
| 1,2-Dichlorobenzene                                                                                                           | ug/kg                | 14000           | 14000                 | 280                    | 210000 C               | 210000 C              | 80 U                  | 93 U                  | 88 U                  | 90 U                  | 86 U                  | 91 U                  |       |
| 1,2-Dichloroethane                                                                                                            | ug/kg                | 100             | 100                   | 7200 X                 | 2100                   | 11000                 | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| 1,2-Dichloropropane                                                                                                           | ug/kg                | 100             | 100                   | 4600 X                 | 4000                   | 7400                  | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| 1,3,5-Trimethylbenzene                                                                                                        | ug/kg                | 1800            | 1800                  | 1100                   | 94000 C                | 94000 C               | 80 U                  | 93 U                  | 88 U                  | 90 U                  | 86 U                  | 21 J                  |       |
| 1,3-Dichlorobenzene                                                                                                           | ug/kg                | 170             | 480                   | 680                    | 26000                  | 48000                 | 80 U                  | 93 U                  | 88 U                  | 90 U                  | 86 U                  | 91 U                  |       |
| 1,4-Dichlorobenzene                                                                                                           | ug/kg                | 1700            | 1700                  | 360                    | 19000                  | 100000                | 80 U                  | 93 U                  | 88 U                  | 90 U                  | 86 U                  | 91 U                  |       |
| 2-Butanone (Methyl ethyl ketone) (MEK)                                                                                        | ug/kg                | 260000          | 760000                | 44000                  | 27000000 C             | 27000000 C            | 600 U                 | 690 U                 | 660 U                 | 680 U                 | 640 U                 | 680 U                 |       |
| 2-Hexanone                                                                                                                    | ug/kg                | 20000           | 58000                 | ID                     | 990000                 | 1800000               | 2000 U                | 2300 U                | 2200 U                | 2300 U                | 2100 U                | 2300 U                |       |
| 2-Methylnaphthalene                                                                                                           | ug/kg                | 57000           | 170000                | 4200                   | 2700000                | 4900000               | 94 J                  | 290 U                 | 280 U                 | 280 U                 | 270 U                 | 83 J                  |       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)                                                                          | ug/kg                | 36000           | 100000                | ID                     | 2700000 C              | 2700000 C             | 2000 U                | 2300 U                | 2200 U                | 2300 U                | 2100 U                | 2300 U                |       |
| Acetone                                                                                                                       | ug/kg                | 15000           | 42000                 | 34000                  | 110000000 C            | 110000000 C           | 600 U                 | 690 U                 | 660 U                 | 680 U                 | 640 U                 | 680 U                 |       |
| Benzene                                                                                                                       | ug/kg                | 100             | 100                   | 4000 X                 | 1600                   | 8400                  | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| Bromodichloromethane                                                                                                          | ug/kg                | 1600 W          | 1600 W                | ID                     | 1200                   | 6400                  | 80 U                  | 93 U                  | 88 U                  | 90 U                  | 86 U                  | 91 U                  |       |
| Bromoform                                                                                                                     | ug/kg                | 1600 W          | 1600 W                | ID                     | 150000                 | 770000                | 80 U                  | 93 U                  | 88 U                  | 90 U                  | 86 U                  | 91 U                  |       |
| Bromomethane (Methyl bromide)                                                                                                 | ug/kg                | 200             | 580                   | 700                    | 860                    | 1600                  | 200 U                 | 230 U                 | 220 U                 | 230 U                 | 210 U                 | 230 U                 |       |
| Carbon disulfide                                                                                                              | ug/kg                | 16000           | 46000                 | ID                     | 76000                  | 140000                | 200 U                 | 230 U                 | 220 U                 | 230 U                 | 210 U                 | 230 U                 |       |
| Carbon tetrachloride                                                                                                          | ug/kg                | 100             | 100                   | 900 X                  | 190                    | 990                   | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| Chlorobenzene                                                                                                                 | ug/kg                | 2000            | 2000                  | 500                    | 120000                 | 220000                | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| Chloroethane                                                                                                                  | ug/kg                | 8600            | 34000                 | 22000 X                | 950000 C               | 950000 C              | 200 U                 | 230 U                 | 220 U                 | 230 U                 | 210 U                 | 230 U                 |       |
| Chloroform (Trichloromethane)                                                                                                 | ug/kg                | 1600 W          | 1600 W                | 7000                   | 7200                   | 38000                 | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| Chloromethane (Methyl chloride)                                                                                               | ug/kg                | 5200            | 22000                 | ID                     | 2300                   | 10000                 | 200 U                 | 230 U                 | 220 U                 | 230 U                 | 210 U                 | 230 U                 |       |
| cis-1,2-Dichloroethene                                                                                                        | ug/kg                | 1400            | 1400                  | 12000                  | 22000                  | 41000                 | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| cis-1,3-Dichloropropene                                                                                                       | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| Cyclohexane                                                                                                                   | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 960 U                 | 1100 U                | 1100 U                | 1100 U                | 1000 U                | 1100 U                |       |
| Dibromochloromethane                                                                                                          | ug/kg                | 1600 W          | 1600 W                | ID                     | 3900                   | 21000                 | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| Dichlorodifluoromethane (CFC-12)                                                                                              | ug/kg                | 95000           | 270000                | ID                     | 900000                 | 1700000               | 80 U                  | 93 U                  | 88 U                  | 90 U                  | 86 U                  | 91 U                  |       |
| Ethylbenzene                                                                                                                  | ug/kg                | 1500            | 1500                  | 360                    | 87000                  | 140000 C              | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| Isopropyl benzene                                                                                                             | ug/kg                | 91000           | 260000                | 3200                   | 390000 C               | 390000 C              | 200 U                 | 230 U                 | 220 U                 | 230 U                 | 210 U                 | 230 U                 |       |
| Methyl acetate                                                                                                                | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 960 U                 | 1100 U                | 1100 U                | 1100 U                | 1000 U                | 1100 U                |       |
| Methyl cyclohexane                                                                                                            | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 960 U                 | 1100 U                | 1100 U                | 85 J                  | 1000 U                | 1100 U                |       |
| Methyl tert butyl ether (MTBE)                                                                                                | ug/kg                | 800             | 800                   | 140000 X               | 5900000 C              | 5900000 C             | 200 U                 | 230 U                 | 220 U                 | 230 U                 | 210 U                 | 230 U                 |       |
| Methylene chloride                                                                                                            | ug/kg                | 100             | 100                   | 30000 X                | 45000                  | 240000                | 200 U                 | 230 U                 | 220 U                 | 230 U                 | 210 U                 | 230 U                 |       |
| Naphthalene                                                                                                                   | ug/kg                | 35000           | 100000                | 730                    | 250000                 | 470000                | 42 J                  | 290 U                 | 280 U                 | 280 U                 | 270 U                 | 11 J                  |       |
| Styrene                                                                                                                       | ug/kg                | 2700            | 2700                  | 2100 X                 | 250000                 | 520000 C              | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| Tetrachloroethene                                                                                                             | ug/kg                | 100             | 100                   | 1200 X                 | 11000                  | 21000                 | 40 U                  | 35 J                  | 44 U                  | 45 U                  | 950 <sup>bc</sup>     |                       |       |
| Toluene                                                                                                                       | ug/kg                | 16000           | 16000                 | 5400                   | 250000 C               | 250000 C              | 80 U                  | 93 U                  | 88 U                  | 90 U                  | 86 U                  | 91 U                  |       |
| trans-1,2-Dichloroethene                                                                                                      | ug/kg                | 2000            | 2000                  | 30000 X                | 23000                  | 43000                 | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| trans-1,3-Dichloropropene                                                                                                     | ug/kg                | NA              | NA                    | NA                     | NA                     | NA                    | 40 U                  | 46 U                  | 44 U                  | 45 U                  | 43 U                  | 45 U                  |       |
| Trichloroethene                                                                                                               | ug/kg                | 100             | 100                   | 4000 X                 | 1000                   | 1900                  | 40 U                  | 420 <sup>bc</sup>     |                       | 44 U                  | 45 U                  | 130 <sup>bc</sup>     |       |
| Trichlorofluoromethane (CFC-11)                                                                                               | ug/kg                | 52000           | 150000                |                        | 560000 C               | 560000 C              | 80 U                  | 93 U                  | 88 U                  | 90 U                  | 86 U                  | 91 U                  |       |
| Trifluorotrichloroethane (Freon 113)                                                                                          | ug/kg                | 550000 C        | 550000 C              | 1700                   | 550000 C               | 550000 C              | 200 U                 | 230 U                 | 220 U                 | 230 U                 | 210 U                 | 230 U                 |       |
| Vinyl chloride                                                                                                                | ug/kg                | 40              | 40                    | 260 X                  | 270                    | 2800                  | 32 U                  | 37 U                  | 35 U                  | 36 U                  | 34 U                  | 120 <sup>bc</sup>     |       |
| Xylenes (total)                                                                                                               | ug/kg                | 5600            | 5600                  | 820                    | 150000 C               | 150000 C              | 120 U                 | 140 U                 | 130 U                 | 140 U                 | 130 U                 | 140 U                 | 130 U |

Notes:

If results are below select background level, all other criteria are not applicable

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The associated value is qualified as an estimated quantity.

JB - Methylene Chloride was detected in method blank

(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 9/28/2012, pursuant to 1994 PA 451 as amended.

NA - Criteria not available or not applicable

- Not analyzed

- Indicates concentration exceeded Part 201 Cleanup Criteria

- Indicates concentration exceeded applicable Part 201 Cleanup Criteria.

\* - Indicates applicable Part 201 Cleanup Criteria

ATTACHMENT 1

SOIL BORING LOGS NEAR AOI 53



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - PCC WEST

HOLE DESIGNATION: SB-11-12

PROJECT NUMBER: 007097

DATE COMPLETED: July 30, 2012

CLIENT: RACER

DRILLING METHOD: GEOPROBE

LOCATION: PONTIAC, MI

FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                                                                                                                                                                                            | DEPTH<br>ft BGS | BOREHOLE | SAMPLE |          |         |           |           |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|--------|----------|---------|-----------|-----------|
|                 |                                                                                                                                                                                                                                                                                |                 |          | NUMBER | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                                                                                                                                                                                                       | 0.50            |          |        |          |         |           |           |
| 2               | SC-CLAYEY SAND (FILL), trace gravel, fine to medium sand, fine to coarse gravel, poorly graded, compact, brown, moist<br>- wet at 1.0ft BGS                                                                                                                                    | 3.00            |          | 1GP    |          | 55      |           | 0.0       |
| 4               | SP-SAND (FILL), trace silt and gravel, fine sand, fine to coarse gravel, poorly graded, compact, brown, moist<br>- 2" fine to coarse gravel seam at 3.25ft BGS<br>- gravelly sand, fine to coarse sand, fine to coarse gravel, very moist at 4.0ft BGS<br>- moist at 5.5ft BGS |                 |          |        |          |         |           |           |
| 6               |                                                                                                                                                                                                                                                                                |                 |          | 2GP    |          | 55      |           | 0.0       |
| 8               |                                                                                                                                                                                                                                                                                |                 |          |        |          |         |           |           |
| 10              |                                                                                                                                                                                                                                                                                |                 |          | 3GP    |          | 40      |           | 0.0       |
| 12              |                                                                                                                                                                                                                                                                                |                 |          |        |          |         |           |           |
| 14              | - REFUSAL at 14.0ft BGS<br>END OF BOREHOLE @ 14.0ft BGS                                                                                                                                                                                                                        | 14.00           |          | 4GP    |          | 85      |           | 0.0       |
| 16              |                                                                                                                                                                                                                                                                                |                 |          |        |          |         |           |           |
| 18              |                                                                                                                                                                                                                                                                                |                 |          |        |          |         |           |           |
| 20              |                                                                                                                                                                                                                                                                                |                 |          |        |          |         |           |           |
| 22              |                                                                                                                                                                                                                                                                                |                 |          |        |          |         |           |           |
| 24              |                                                                                                                                                                                                                                                                                |                 |          |        |          |         |           |           |
| 26              |                                                                                                                                                                                                                                                                                |                 |          |        |          |         |           |           |
| 28              |                                                                                                                                                                                                                                                                                |                 |          |        |          |         |           |           |
| 30              |                                                                                                                                                                                                                                                                                |                 |          |        |          |         |           |           |
| 32              |                                                                                                                                                                                                                                                                                |                 |          |        |          |         |           |           |
| 34              |                                                                                                                                                                                                                                                                                |                 |          |        |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - PCC WEST

HOLE DESIGNATION: SB-12-12

PROJECT NUMBER: 007097

DATE COMPLETED: July 30, 2012

CLIENT: RACER

DRILLING METHOD: GEOPROBE

LOCATION: PONTIAC, MI

FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                         | DEPTH<br>ft BGS | BOREHOLE | SAMPLE    |          |         |           |           |
|-----------------|-------------------------------------------------------------------------------------------------------------|-----------------|----------|-----------|----------|---------|-----------|-----------|
|                 |                                                                                                             |                 |          | NUMBER    | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                                    | 0.50            |          |           |          |         |           |           |
| 2               | SP-SAND (FILL), trace silt, fine to medium grained, poorly graded, compact, brown, moist                    | 1.00            |          | 1GP       |          | 60      |           | 4.7       |
|                 | SC-CLAYEY SAND (FILL), trace gravel, fine sand, fine to coarse gravel, poorly graded, compact, brown, moist | 3.50            |          |           |          |         |           | 0.5       |
| 4               | SP-GRAVELLY SAND (FILL), fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist   |                 |          |           |          |         |           | 0.1       |
| 6               |                                                                                                             |                 |          | 2GP       | 50       |         |           | 0.1       |
| 8               |                                                                                                             |                 |          | 6-8' -007 |          |         |           | 0.1       |
| 10              |                                                                                                             |                 |          | 3GP       | 70       |         |           | 0.1       |
| 12              | END OF BOREHOLE @ 12.0ft BGS                                                                                | 12.00           |          |           |          |         |           | 0.1       |
| 14              |                                                                                                             |                 |          |           |          |         |           |           |
| 16              |                                                                                                             |                 |          |           |          |         |           |           |
| 18              |                                                                                                             |                 |          |           |          |         |           |           |
| 20              |                                                                                                             |                 |          |           |          |         |           |           |
| 22              |                                                                                                             |                 |          |           |          |         |           |           |
| 24              |                                                                                                             |                 |          |           |          |         |           |           |
| 26              |                                                                                                             |                 |          |           |          |         |           |           |
| 28              |                                                                                                             |                 |          |           |          |         |           |           |
| 30              |                                                                                                             |                 |          |           |          |         |           |           |
| 32              |                                                                                                             |                 |          |           |          |         |           |           |
| 34              |                                                                                                             |                 |          |           |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - PCC WEST

HOLE DESIGNATION: SB-13-12

PROJECT NUMBER: 007097

DATE COMPLETED: July 31, 2012

CLIENT: RACER

DRILLING METHOD: GEOPROBE

LOCATION: PONTIAC, MI

FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                           | DEPTH<br>ft BGS | BOREHOLE | SAMPLE       |          |         |           |           |
|-----------------|---------------------------------------------------------------------------------------------------------------|-----------------|----------|--------------|----------|---------|-----------|-----------|
|                 |                                                                                                               |                 |          | NUMBER       | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                                      |                 |          |              |          |         |           |           |
| 2               | SP-SAND (FILL), trace silt and gravel, fine to medium sand, fine gravel, poorly graded, compact, brown, moist | 0.90            |          | 1GP          |          | 40      |           | 0.2       |
| 4               | - gravelly sand, fine to coarse sand, fine to coarse gravel at 4.0ft BGS                                      |                 |          |              |          |         |           | 0.2       |
| 6               |                                                                                                               |                 |          | 2GP          |          | 30      |           | 0.0       |
| 8               |                                                                                                               |                 |          | 6-8'<br>-012 |          |         |           | 0.1       |
| 10              |                                                                                                               |                 |          | 3GP          |          | 40      |           | 0.0       |
| 12              | - REFUSAL at 11.0ft BGS<br>END OF BOREHOLE @ 11.0ft BGS                                                       | 11.00           |          |              |          |         |           | 0.0       |
| 14              |                                                                                                               |                 |          |              |          |         |           |           |
| 16              |                                                                                                               |                 |          |              |          |         |           |           |
| 18              |                                                                                                               |                 |          |              |          |         |           |           |
| 20              |                                                                                                               |                 |          |              |          |         |           |           |
| 22              |                                                                                                               |                 |          |              |          |         |           |           |
| 24              |                                                                                                               |                 |          |              |          |         |           |           |
| 26              |                                                                                                               |                 |          |              |          |         |           |           |
| 28              |                                                                                                               |                 |          |              |          |         |           |           |
| 30              |                                                                                                               |                 |          |              |          |         |           |           |
| 32              |                                                                                                               |                 |          |              |          |         |           |           |
| 34              |                                                                                                               |                 |          |              |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - PCC WEST

HOLE DESIGNATION: SB-14-12

PROJECT NUMBER: 007097

DATE COMPLETED: July 31, 2012

CLIENT: RACER

DRILLING METHOD: GEOPROBE

LOCATION: PONTIAC, MI

FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                                                | DEPTH<br>ft BGS | TEMP MONITORING WELL | SAMPLE    |          |         |           |           |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------|-----------|----------|---------|-----------|-----------|
|                 |                                                                                                                                    |                 |                      | NUMBER    | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                                                           | 0.70            |                      |           |          |         |           |           |
| 2               | SP-SAND (FILL), with gravel, trace silt, fine to medium sand, fine to coarse gravel, poorly graded, loose to compact, brown, moist | 1.20            |                      | 1GP       | 80       |         |           | 0.0       |
| 4               | SC-CLAYEY SAND (FILL), trace gravel, fine sand, fine to coarse gravel, poorly graded, compact, brown, wet                          | 3.75            |                      |           |          |         |           | 0.0       |
| 6               | SP-GRAVELLY SAND (FILL), fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist                          |                 |                      | 2GP       | 50       |         |           | 0.0       |
| 8               |                                                                                                                                    |                 |                      | 6-8" -013 |          |         |           | 0.1       |
| 10              |                                                                                                                                    |                 |                      | 3GP       | 10       |         |           | 0.0       |
| 12              |                                                                                                                                    |                 |                      |           |          |         |           | 0.0       |
| 14              |                                                                                                                                    |                 |                      | 4GP       | 10       |         |           | 0.0       |
| 16              | - REFUSAL at 15.0ft BGS                                                                                                            | 15.00           |                      |           |          |         |           | 0.0       |
| 18              | END OF BOREHOLE @ 15.0ft BGS                                                                                                       |                 |                      |           |          |         |           |           |
| 20              |                                                                                                                                    |                 |                      |           |          |         |           |           |
| 22              |                                                                                                                                    |                 |                      |           |          |         |           |           |
| 24              |                                                                                                                                    |                 |                      |           |          |         |           |           |
| 26              |                                                                                                                                    |                 |                      |           |          |         |           |           |
| 28              |                                                                                                                                    |                 |                      |           |          |         |           |           |
| 30              |                                                                                                                                    |                 |                      |           |          |         |           |           |
| 32              |                                                                                                                                    |                 |                      |           |          |         |           |           |
| 34              |                                                                                                                                    |                 |                      |           |          |         |           |           |

1" PVC WELL CASING

1" PVC WELL SCREEN

## WELL DETAILS

Screened interval:  
10.00 to 15.00ft BGS  
Length: 5ft  
Diameter: 1in  
Slot Size: 0.010  
Material: PVC

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - PCC WEST

HOLE DESIGNATION: SB-15-12

PROJECT NUMBER: 007097

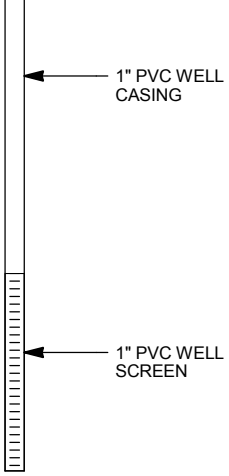
DATE COMPLETED: July 30, 2012

CLIENT: RACER

DRILLING METHOD: GEOPROBE

LOCATION: PONTIAC, MI

FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                          | DEPTH<br>ft BGS | TEMP MONITORING WELL                                                                 | SAMPLE |          |         |           |           |
|-----------------|--------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------|--------|----------|---------|-----------|-----------|
|                 |                                                                                                              |                 |                                                                                      | NUMBER | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
| 2               | GP-GRAVEL (FILL), coarse grained, compact, gray, moist                                                       | 0.50            |  | 1GP    | 70       |         |           | 0.1       |
| 4               | SP-GRAVELLY SAND (FILL), fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist    |                 |                                                                                      | 2GP    | 55       |         |           | 0.0       |
| 6               | SP/GP-SAND AND GRAVEL (FILL), fine to medium sand, fine to coarse gravel, poorly graded, dense, brown, moist | 6.00            |                                                                                      | 3GP    | 55       |         |           | 28.5      |
| 8               |                                                                                                              |                 |                                                                                      |        |          |         |           | 10.0      |
| 10              |                                                                                                              |                 |                                                                                      |        |          |         |           | 5.9       |
| 12              | - REFUSAL at 12.0ft BGS<br>END OF BOREHOLE @ 12.0ft BGS                                                      | 12.00           |                                                                                      |        |          |         |           | 1.0       |
| 14              |                                                                                                              |                 |                                                                                      |        |          |         |           |           |
| 16              |                                                                                                              |                 |                                                                                      |        |          |         |           |           |
| 18              |                                                                                                              |                 |                                                                                      |        |          |         |           |           |
| 20              |                                                                                                              |                 |                                                                                      |        |          |         |           |           |
| 22              |                                                                                                              |                 |                                                                                      |        |          |         |           |           |
| 24              |                                                                                                              |                 |                                                                                      |        |          |         |           |           |
| 26              |                                                                                                              |                 |                                                                                      |        |          |         |           |           |
| 28              |                                                                                                              |                 |                                                                                      |        |          |         |           |           |
| 30              |                                                                                                              |                 |                                                                                      |        |          |         |           |           |
| 32              |                                                                                                              |                 |                                                                                      |        |          |         |           |           |
| 34              |                                                                                                              |                 |                                                                                      |        |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12

## ATTACHMENT 2

### SOIL BORING LOGS ASSOCIATED WITH DUCO STORES



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - PCC WEST  
PROJECT NUMBER: 007097  
CLIENT: RACER  
LOCATION: PONTIAC, MI

HOLE DESIGNATION: SB-1-12  
DATE COMPLETED: July 31, 2012  
DRILLING METHOD: GEOPROBE  
FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                                                                                                                       | DEPTH<br>ft BGS      | BOREHOLE | SAMPLE |          |         |           |           |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------|--------|----------|---------|-----------|-----------|
|                 |                                                                                                                                                                                                           |                      |          | NUMBER | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                                                                                                                                  |                      |          |        |          |         |           |           |
| 2               | SP/GP-SAND AND GRAVEL (FILL), fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist                                                                                            | 1.50<br>2.00<br>2.50 |          | 1GP    |          | 85      |           | 0.3       |
| 4               | SC-CLAYEY SAND (FILL), trace gravel, fine to medium sand, fine to coarse gravel, poorly graded, compact, brown, moist                                                                                     |                      |          |        |          |         |           | 0.1       |
| 6               | CL-SANDY CLAY (FILL), with silt, trace gravel, fine to coarse sand, fine to coarse gravel, low plasticity, stiff, brown, moist<br>- trace asphalt debris at 3.5ft BGS<br>- no asphalt debris at 4.0ft BGS |                      |          | 2GP    |          | 65      |           | 1.0       |
| 8               |                                                                                                                                                                                                           |                      |          |        |          |         |           | 0.5       |
| 10              | SC-CLAYEY SAND (FILL), trace gravel, fine to medium sand, fine to coarse gravel, poorly graded, compact, brown, moist                                                                                     | 8.50<br>9.00         |          | 3GP    |          | 50      |           | 0.4       |
| 12              | CL-SILTY CLAY, trace fine sand, low plasticity, firm, gray, moist                                                                                                                                         |                      |          |        |          |         |           | 0.2       |
| 12              | END OF BOREHOLE @ 12.0ft BGS                                                                                                                                                                              | 12.00                |          |        |          |         |           |           |
| 14              |                                                                                                                                                                                                           |                      |          |        |          |         |           |           |
| 16              |                                                                                                                                                                                                           |                      |          |        |          |         |           |           |
| 18              |                                                                                                                                                                                                           |                      |          |        |          |         |           |           |
| 20              |                                                                                                                                                                                                           |                      |          |        |          |         |           |           |
| 22              |                                                                                                                                                                                                           |                      |          |        |          |         |           |           |
| 24              |                                                                                                                                                                                                           |                      |          |        |          |         |           |           |
| 26              |                                                                                                                                                                                                           |                      |          |        |          |         |           |           |
| 28              |                                                                                                                                                                                                           |                      |          |        |          |         |           |           |
| 30              |                                                                                                                                                                                                           |                      |          |        |          |         |           |           |
| 32              |                                                                                                                                                                                                           |                      |          |        |          |         |           |           |
| 34              |                                                                                                                                                                                                           |                      |          |        |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - PCC WEST  
PROJECT NUMBER: 007097  
CLIENT: RACER  
LOCATION: PONTIAC, MI

HOLE DESIGNATION: SB-2-12  
DATE COMPLETED: July 31, 2012  
DRILLING METHOD: GEOPROBE  
FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                                          | DEPTH<br>ft BGS | BOREHOLE | SAMPLE |          |         |           |           |
|-----------------|------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|--------|----------|---------|-----------|-----------|
|                 |                                                                                                                              |                 |          | NUMBER | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                                                     |                 |          |        |          |         |           | 0.9       |
| 2               |                                                                                                                              | 2.00            |          | 1GP    |          | 90      |           |           |
|                 | SP/GP-SAND AND GRAVEL (FILL), fine to coarse sand, fine to coarse gravel, moderately graded, loose to compact, brown, moist  | 2.50            |          |        |          |         |           | 2.5       |
| 4               |                                                                                                                              | 3.50            |          |        |          |         |           |           |
|                 | CL-SILTY CLAY (FILL), with sand, trace gravel, fine to medium sand, fine gravel, low plasticity, stiff, brown, moist         |                 |          |        |          |         |           | 0.7       |
| 6               |                                                                                                                              | 6.00            |          |        |          | 70      |           |           |
|                 | SP-SAND (FILL), trace silt, fine to medium grained, poorly graded, compact, brown, moist                                     | 7.00            |          |        |          |         |           | 0.2       |
| 8               |                                                                                                                              | 8.00            |          |        |          |         |           |           |
|                 | SC-CLAYEY SAND (FILL), trace gravel, fine to medium sand, fine to coarse gravel, poorly graded, loose to compact, brown, wet |                 |          |        |          |         |           |           |
| 10              |                                                                                                                              |                 |          |        |          |         |           |           |
|                 | CL-SILTY CLAY, trace fine sand, low plasticity, stiff, gray, moist                                                           |                 |          |        |          |         |           |           |
| 12              |                                                                                                                              |                 |          |        |          |         |           |           |
|                 | - very moist at 7.5ft BGS                                                                                                    |                 |          |        |          |         |           |           |
| 14              |                                                                                                                              |                 |          |        |          |         |           |           |
|                 | END OF BOREHOLE @ 8.0ft BGS                                                                                                  |                 |          |        |          |         |           |           |
| 16              |                                                                                                                              |                 |          |        |          |         |           |           |
| 18              |                                                                                                                              |                 |          |        |          |         |           |           |
| 20              |                                                                                                                              |                 |          |        |          |         |           |           |
| 22              |                                                                                                                              |                 |          |        |          |         |           |           |
| 24              |                                                                                                                              |                 |          |        |          |         |           |           |
| 26              |                                                                                                                              |                 |          |        |          |         |           |           |
| 28              |                                                                                                                              |                 |          |        |          |         |           |           |
| 30              |                                                                                                                              |                 |          |        |          |         |           |           |
| 32              |                                                                                                                              |                 |          |        |          |         |           |           |
| 34              |                                                                                                                              |                 |          |        |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - PCC WEST

HOLE DESIGNATION: SB-3-12

PROJECT NUMBER: 007097

DATE COMPLETED: July 30, 2012

CLIENT: RACER

DRILLING METHOD: GEOPROBE

LOCATION: PONTIAC, MI

FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                                          | DEPTH<br>ft BGS | BOREHOLE | SAMPLE |          |         |           |           |
|-----------------|------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|--------|----------|---------|-----------|-----------|
|                 |                                                                                                                              |                 |          | NUMBER | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                                                     |                 |          |        |          |         |           | 1.5       |
| 2               | CL-CLAY (FILL), with sand, trace gravel, fine sand, fine to coarse gravel, low plasticity, stiff, brown, moist               | 1.50<br>2.00    |          | 1GP    |          | 70      |           | 1.7       |
| 4               | SP-SAND (FILL), trace silt and gravel, fine sand, fine gravel, poorly graded, compact, brown, moist                          |                 |          |        |          |         |           | 0.2       |
| 6               | - 2-1/2" silty clay lens, with fine to medium sand at 6.7ft BGS                                                              | 6.90            |          | 2GP    |          | 80      |           | 0.1       |
| 8               | SC-CLAYEY SAND (FILL), trace gravel, fine to medium sand, fine to coarse gravel, poorly graded, loose to compact, brown, wet | 8.00            |          |        |          |         |           | 0.1       |
| 10              | CL-SILTY CLAY, trace fine sand, low plasticity, soft, gray, moist                                                            |                 |          | 3GP    |          | 90      |           | 0.2       |
| 12              | - firm at 12.0ft BGS                                                                                                         |                 |          |        |          |         |           | 0.1       |
| 14              |                                                                                                                              |                 |          | 4GP    |          | 100     |           | 0.1       |
| 16              | END OF BOREHOLE @ 16.0ft BGS                                                                                                 | 16.00           |          |        |          |         |           |           |
| 18              |                                                                                                                              |                 |          |        |          |         |           |           |
| 20              |                                                                                                                              |                 |          |        |          |         |           |           |
| 22              |                                                                                                                              |                 |          |        |          |         |           |           |
| 24              |                                                                                                                              |                 |          |        |          |         |           |           |
| 26              |                                                                                                                              |                 |          |        |          |         |           |           |
| 28              |                                                                                                                              |                 |          |        |          |         |           |           |
| 30              |                                                                                                                              |                 |          |        |          |         |           |           |
| 32              |                                                                                                                              |                 |          |        |          |         |           |           |
| 34              |                                                                                                                              |                 |          |        |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - PCC WEST  
PROJECT NUMBER: 007097  
CLIENT: RACER  
LOCATION: PONTIAC, MI

HOLE DESIGNATION: SB-4-12  
DATE COMPLETED: July 30, 2012  
DRILLING METHOD: GEOPROBE  
FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                                                            | DEPTH<br>ft BGS | BOREHOLE | SAMPLE            |          |         |           |           |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|-------------------|----------|---------|-----------|-----------|
|                 |                                                                                                                                                |                 |          | NUMBER            | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | ASPHALT                                                                                                                                        | 0.40            |          |                   |          |         |           |           |
| 2               | SP-GRAVELLY SAND (FILL), fine sand, fine to coarse gravel, poorly graded, compact, brown, moist<br>- with silt, trace fine gravel at 2.8ft BGS |                 |          | 1GP               |          | 75      |           | 1.8       |
| 4               | SC-CLAYEY SAND (FILL), trace gravel, fine to medium sand, fine to coarse gravel, loose to compact, brown                                       | 4.00            |          |                   |          |         |           | 0.7       |
| 6               | SP-SAND (FILL), trace silt and gravel, fine to medium sand, fine gravel, poorly graded, compact, brown, wet                                    | 6.00            |          | 4-6'-004<br>2GP   |          | 75      |           | 0.1       |
| 8               | CH-SILTY CLAY, trace fine sand, low plasticity, soft, gray, moist<br>- firm at 7.5ft BGS                                                       | 7.00            |          |                   |          |         |           | 0.0       |
| 10              |                                                                                                                                                |                 |          |                   |          |         |           | 0.0       |
| 12              | END OF BOREHOLE @ 12.0ft BGS                                                                                                                   | 12.00           |          | 10-12'-003<br>3GP |          | 85      |           | 0.0       |
| 14              |                                                                                                                                                |                 |          |                   |          |         |           |           |
| 16              |                                                                                                                                                |                 |          |                   |          |         |           |           |
| 18              |                                                                                                                                                |                 |          |                   |          |         |           |           |
| 20              |                                                                                                                                                |                 |          |                   |          |         |           |           |
| 22              |                                                                                                                                                |                 |          |                   |          |         |           |           |
| 24              |                                                                                                                                                |                 |          |                   |          |         |           |           |
| 26              |                                                                                                                                                |                 |          |                   |          |         |           |           |
| 28              |                                                                                                                                                |                 |          |                   |          |         |           |           |
| 30              |                                                                                                                                                |                 |          |                   |          |         |           |           |
| 32              |                                                                                                                                                |                 |          |                   |          |         |           |           |
| 34              |                                                                                                                                                |                 |          |                   |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - PCC WEST

HOLE DESIGNATION: SB-5-12

PROJECT NUMBER: 007097

DATE COMPLETED: July 31, 2012

CLIENT: RACER

DRILLING METHOD: GEOPROBE

LOCATION: PONTIAC, MI

FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                                                                                                                                                                                         | DEPTH<br>ft BGS | BOREHOLE | SAMPLE            |          |         |           |           |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|-------------------|----------|---------|-----------|-----------|
|                 |                                                                                                                                                                                                                                                                             |                 |          | NUMBER            | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                                                                                                                                                                                                    |                 |          |                   |          |         |           |           |
| 2               | SP/GP-SAND AND GRAVEL (FILL), trace concrete debris, fine to medium sand, fine to coarse gravel, poorly graded, compact, brown, moist                                                                                                                                       | 1.25            |          | 1GP               |          | 70      |           | 0.9       |
| 4               | CL-SANDY CLAY (FILL), trace gravel, fine to medium sand, fine to coarse gravel, low plasticity, stiff, brown, moist<br>- mottled, trace staining at 3.25ft BGS<br>- with silt, not mottled, no staining at 3.5ft BGS<br>- no silt, firm at 4.0ft BGS<br>- soft at 7.0ft BGS | 3.00            |          | 2-4' -016         |          |         |           | 9.9       |
| 6               |                                                                                                                                                                                                                                                                             |                 |          |                   |          |         |           |           |
| 8               |                                                                                                                                                                                                                                                                             | 7.85            |          | 2GP 5.5-7.5' -017 |          | 65      |           | 0.2       |
| 10              | SP/GP-SAND AND GRAVEL (FILL), trace concrete debris, fine to medium sand, fine to coarse gravel, poorly graded, compact, brown, wet                                                                                                                                         | 9.00            |          |                   |          |         |           | 0.1       |
| 12              | SP-SAND, with silt, fine to medium grained, poorly graded, compact, gray, wet                                                                                                                                                                                               | 9.25            |          | 3GP               |          | 75      |           | 0.1       |
| 14              | CL-SILTY CLAY, trace fine sand, low plasticity, stiff, gray, very moist<br>- moist at 10.0ft BGS                                                                                                                                                                            | 12.00           |          |                   |          |         |           | 0.0       |
| 16              | END OF BOREHOLE @ 12.0ft BGS                                                                                                                                                                                                                                                |                 |          |                   |          |         |           |           |
| 18              |                                                                                                                                                                                                                                                                             |                 |          |                   |          |         |           |           |
| 20              |                                                                                                                                                                                                                                                                             |                 |          |                   |          |         |           |           |
| 22              |                                                                                                                                                                                                                                                                             |                 |          |                   |          |         |           |           |
| 24              |                                                                                                                                                                                                                                                                             |                 |          |                   |          |         |           |           |
| 26              |                                                                                                                                                                                                                                                                             |                 |          |                   |          |         |           |           |
| 28              |                                                                                                                                                                                                                                                                             |                 |          |                   |          |         |           |           |
| 30              |                                                                                                                                                                                                                                                                             |                 |          |                   |          |         |           |           |
| 32              |                                                                                                                                                                                                                                                                             |                 |          |                   |          |         |           |           |
| 34              |                                                                                                                                                                                                                                                                             |                 |          |                   |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - PCC WEST  
PROJECT NUMBER: 007097  
CLIENT: RACER  
LOCATION: PONTIAC, MI

HOLE DESIGNATION: SB-6-12  
DATE COMPLETED: July 31, 2012  
DRILLING METHOD: GEOPROBE  
FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                         | DEPTH<br>ft BGS         | BOREHOLE | SAMPLE               |          |         |           |           |
|-----------------|-------------------------------------------------------------------------------------------------------------|-------------------------|----------|----------------------|----------|---------|-----------|-----------|
|                 |                                                                                                             |                         |          | NUMBER               | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                                    |                         |          |                      |          |         |           |           |
| 2               | GP-GRAVEL (FILL), coarse grained, compact, gray, moist                                                      | 1.50<br>2.00            |          | 1GP                  |          | 75      |           | 0.1       |
| 4               | SC-CLAYEY SAND (FILL), trace gravel, fine to medium sand, fine gravel, poorly graded, compact, brown, moist |                         |          |                      |          |         |           | 0.1       |
| 6               |                                                                                                             |                         |          | 2GP                  | 50       |         |           | 0.0       |
| 8               |                                                                                                             |                         |          |                      |          |         |           | 0.0       |
| 10              |                                                                                                             |                         |          | 3GP<br>9-11'<br>-014 | 60       |         |           | 0.0       |
| 12              | CL-SILTY CLAY, trace sand and gravel, fine sand, fine to coarse gravel, low plasticity, firm, brown, moist  | 11.00<br>11.50<br>12.00 |          |                      |          |         |           | 0.0       |
| 14              | SM-SILTY SAND, fine grained, compact, brown, wet                                                            |                         |          |                      |          |         |           |           |
|                 | END OF BOREHOLE @ 12.0ft BGS                                                                                |                         |          |                      |          |         |           |           |
| 16              |                                                                                                             |                         |          |                      |          |         |           |           |
| 18              |                                                                                                             |                         |          |                      |          |         |           |           |
| 20              |                                                                                                             |                         |          |                      |          |         |           |           |
| 22              |                                                                                                             |                         |          |                      |          |         |           |           |
| 24              |                                                                                                             |                         |          |                      |          |         |           |           |
| 26              |                                                                                                             |                         |          |                      |          |         |           |           |
| 28              |                                                                                                             |                         |          |                      |          |         |           |           |
| 30              |                                                                                                             |                         |          |                      |          |         |           |           |
| 32              |                                                                                                             |                         |          |                      |          |         |           |           |
| 34              |                                                                                                             |                         |          |                      |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - PCC WEST

HOLE DESIGNATION: SB-7-12

PROJECT NUMBER: 007097

DATE COMPLETED: July 31, 2012

CLIENT: RACER

DRILLING METHOD: GEOPROBE

LOCATION: PONTIAC, MI

FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                                                             | DEPTH<br>ft BGS | BOREHOLE | SAMPLE         |          |         |           |           |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|----------------|----------|---------|-----------|-----------|
|                 |                                                                                                                                                 |                 |          | NUMBER         | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                                                                        | 0.50            |          |                |          |         |           |           |
| 2               | SP-SAND (FILL), trace silt and gravel, fine to coarse sand, fine to coarse gravel, poorly graded, loose to compact, brown, moist                |                 |          | 1GP            |          | 70      |           | 0.1       |
| 4               |                                                                                                                                                 |                 |          |                |          |         |           | 0.1       |
| 6               |                                                                                                                                                 |                 |          | 2GP            |          | 70      |           | 0.1       |
| 8               |                                                                                                                                                 |                 |          |                |          |         |           | 0.1       |
| 10              |                                                                                                                                                 |                 |          | 3GP            |          | 65      |           | 0.0       |
| 12              | SP-SAND, with silt, trace gravel, fine to medium sand, fine to coarse gravel, poorly graded, loose to compact, brown, moist - wet at 12.0ft BGS | 11.50           |          | 10-12'<br>-020 |          |         |           | 0.1       |
| 14              |                                                                                                                                                 |                 |          | 4GP            |          | 60      |           | 0.0       |
| 16              | END OF BOREHOLE @ 16.0ft BGS                                                                                                                    | 16.00           |          |                |          |         |           | 0.0       |
| 18              |                                                                                                                                                 |                 |          |                |          |         |           |           |
| 20              |                                                                                                                                                 |                 |          |                |          |         |           |           |
| 22              |                                                                                                                                                 |                 |          |                |          |         |           |           |
| 24              |                                                                                                                                                 |                 |          |                |          |         |           |           |
| 26              |                                                                                                                                                 |                 |          |                |          |         |           |           |
| 28              |                                                                                                                                                 |                 |          |                |          |         |           |           |
| 30              |                                                                                                                                                 |                 |          |                |          |         |           |           |
| 32              |                                                                                                                                                 |                 |          |                |          |         |           |           |
| 34              |                                                                                                                                                 |                 |          |                |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - PCC WEST

HOLE DESIGNATION: SB-8-12

PROJECT NUMBER: 007097

DATE COMPLETED: July 30, 2012

CLIENT: RACER

DRILLING METHOD: GEOPROBE

LOCATION: PONTIAC, MI

FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                           | DEPTH<br>ft BGS | BOREHOLE | SAMPLE                     |          |         |           |           |
|-----------------|---------------------------------------------------------------------------------------------------------------|-----------------|----------|----------------------------|----------|---------|-----------|-----------|
|                 |                                                                                                               |                 |          | NUMBER                     | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                                      |                 |          |                            |          |         |           | 2.8       |
| 2               | SP-SAND (FILL), trace silt and gravel, fine sand, fine to coarse gravel, poorly graded, compact, brown, moist | 1.50            |          | 1GP                        |          | 85      |           | 2.9       |
| 4               | - with silt at 4.8ft BGS                                                                                      |                 |          |                            |          |         |           | 0.7       |
| 6               |                                                                                                               |                 |          | 2GP                        |          | 60      |           | 0.2       |
| 8               |                                                                                                               |                 |          |                            |          |         |           | 0.1       |
| 10              |                                                                                                               |                 |          | 3GP<br>(9.5-11.5")<br>-002 |          | 45      |           | 0.1       |
| 12              | - wet at 11.5ft BGS                                                                                           | 11.85           |          |                            |          |         |           |           |
| 14              | CL-SILTY CLAY, trace sand and gravel, fine to medium sand, fine gravel, low plasticity, firm, brown, moist    | 12.00           |          |                            |          |         |           |           |
| 16              | END OF BOREHOLE @ 12.0ft BGS                                                                                  |                 |          |                            |          |         |           |           |
| 18              |                                                                                                               |                 |          |                            |          |         |           |           |
| 20              |                                                                                                               |                 |          |                            |          |         |           |           |
| 22              |                                                                                                               |                 |          |                            |          |         |           |           |
| 24              |                                                                                                               |                 |          |                            |          |         |           |           |
| 26              |                                                                                                               |                 |          |                            |          |         |           |           |
| 28              |                                                                                                               |                 |          |                            |          |         |           |           |
| 30              |                                                                                                               |                 |          |                            |          |         |           |           |
| 32              |                                                                                                               |                 |          |                            |          |         |           |           |
| 34              |                                                                                                               |                 |          |                            |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - PCC WEST  
PROJECT NUMBER: 007097  
CLIENT: RACER  
LOCATION: PONTIAC, MI

HOLE DESIGNATION: SB-9-12  
DATE COMPLETED: July 30, 2012  
DRILLING METHOD: GEOPROBE  
FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                                                         | DEPTH<br>ft BGS | BOREHOLE | SAMPLE                  |          |         |           |           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|-------------------------|----------|---------|-----------|-----------|
|                 |                                                                                                                                             |                 |          | NUMBER                  | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | ASPHALT                                                                                                                                     |                 |          |                         |          |         |           |           |
| 2               | SP-SAND (FILL), with gravel, fine sand, fine to coarse gravel, poorly graded, compact, brown, moist<br>- trace silt and gravel at 1.2ft BGS | 0.65            |          | 1GP                     |          | 75      |           | 1.5       |
| 4               |                                                                                                                                             |                 |          |                         |          |         |           | 0.0       |
| 6               |                                                                                                                                             |                 |          |                         |          |         |           | 0.1       |
| 8               | SC-CLAYEY SAND (FILL), trace gravel, fine to medium sand, fine to coarse gravel, loose to compact, brown, wet                               | 7.50<br>8.00    |          | 2GP<br>5.5-7.5'<br>-005 | 55       |         |           | 0.1       |
| 10              | SP-SAND (FILL), trace silt and gravel, fine to medium sand, fine gravel, poorly graded, compact, brown, wet                                 | 9.50            |          | 3GP<br>10-12'<br>-006   | 80       |         |           | 0.1       |
| 12              | CL-SILTY CLAY, trace fine sand, low plasticity, firm, gray, moist<br>END OF BOREHOLE @ 12.0ft BGS                                           | 12.00           |          |                         |          |         |           |           |
| 14              |                                                                                                                                             |                 |          |                         |          |         |           |           |
| 16              |                                                                                                                                             |                 |          |                         |          |         |           |           |
| 18              |                                                                                                                                             |                 |          |                         |          |         |           |           |
| 20              |                                                                                                                                             |                 |          |                         |          |         |           |           |
| 22              |                                                                                                                                             |                 |          |                         |          |         |           |           |
| 24              |                                                                                                                                             |                 |          |                         |          |         |           |           |
| 26              |                                                                                                                                             |                 |          |                         |          |         |           |           |
| 28              |                                                                                                                                             |                 |          |                         |          |         |           |           |
| 30              |                                                                                                                                             |                 |          |                         |          |         |           |           |
| 32              |                                                                                                                                             |                 |          |                         |          |         |           |           |
| 34              |                                                                                                                                             |                 |          |                         |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - PCC WEST  
PROJECT NUMBER: 007097  
CLIENT: RACER  
LOCATION: PONTIAC, MI

HOLE DESIGNATION: SB-10-12  
DATE COMPLETED: July 31, 2012  
DRILLING METHOD: GEOPROBE  
FIELD PERSONNEL: C. BONDY

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                                            | DEPTH<br>ft BGS | BOREHOLE | SAMPLE        |          |         |           |           |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|---------------|----------|---------|-----------|-----------|
|                 |                                                                                                                                |                 |          | NUMBER        | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                                                       | 0.50            |          |               |          |         |           |           |
| 2               | SP/GP-SAND AND GRAVEL (FILL), fine to medium sand, fine to coarse gravel, poorly graded, compact, brown, moist                 | 0.70            |          | 1GP           |          | 80      |           | 0.0       |
| 4               | CL-SANDY CLAY (FILL), with silt, trace gravel, fine to medium sand, fine to coarse gravel, low plasticity, stiff, brown, moist |                 |          |               |          |         |           | 0.0       |
| 6               | SP-SAND (FILL), trace silt and gravel, fine to medium sand, fine to coarse gravel, poorly graded, compact, brown, moist        | 6.00            |          | 2GP           |          | 90      |           | 0.0       |
| 8               | - with clay at 6.5ft BGS                                                                                                       |                 |          |               |          |         |           | 0.0       |
| 10              | - fine to coarse sand at 7.5ft BGS                                                                                             |                 |          | 3GP           |          | 65      |           | 0.0       |
| 12              | CL-SILTY CLAY, trace fine sand, low plasticity, firm, gray, moist                                                              | 10.75           |          | 10-12<br>-021 |          |         |           | 0.0       |
| 12              | END OF BOREHOLE @ 12.0ft BGS                                                                                                   | 12.00           |          |               |          |         |           |           |
| 14              |                                                                                                                                |                 |          |               |          |         |           |           |
| 16              |                                                                                                                                |                 |          |               |          |         |           |           |
| 18              |                                                                                                                                |                 |          |               |          |         |           |           |
| 20              |                                                                                                                                |                 |          |               |          |         |           |           |
| 22              |                                                                                                                                |                 |          |               |          |         |           |           |
| 24              |                                                                                                                                |                 |          |               |          |         |           |           |
| 26              |                                                                                                                                |                 |          |               |          |         |           |           |
| 28              |                                                                                                                                |                 |          |               |          |         |           |           |
| 30              |                                                                                                                                |                 |          |               |          |         |           |           |
| 32              |                                                                                                                                |                 |          |               |          |         |           |           |
| 34              |                                                                                                                                |                 |          |               |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - PCC WEST  
PROJECT NUMBER: 007097  
CLIENT: RACER  
LOCATION: PONTIAC, MI

HOLE DESIGNATION: SB-16-12  
DATE COMPLETED: October 2, 2012  
DRILLING METHOD: GEOPROBE  
FIELD PERSONNEL: M. CORAM

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                        | DEPTH<br>ft BGS | BOREHOLE | SAMPLE              |          |         |           |           |
|-----------------|--------------------------------------------------------------------------------------------|-----------------|----------|---------------------|----------|---------|-----------|-----------|
|                 |                                                                                            |                 |          | NUMBER              | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                   | 0.60            |          |                     |          |         |           |           |
| 2               | SP/GP-SAND AND GRAVEL, trace concrete, medium to fine grained, poorly graded, brown, moist |                 |          |                     |          |         |           | 0.6       |
|                 | - staining at 3.3ft BGS                                                                    | 3.00            |          | 1GP<br>2-4'<br>-026 |          |         |           |           |
| 4               | CL-CLAY, trace gravel, medium to fine grained, stiff, moist                                |                 |          |                     |          |         |           | 0.9       |
| 6               |                                                                                            |                 |          |                     |          |         |           | 0.5       |
| 8               | SP/GP-SAND AND GRAVEL, coarse debris, gravel, brown, wet                                   | 8.00            |          | 6-8'<br>-027<br>2GP |          |         |           | 0.1       |
| 10              | END OF BOREHOLE @ 10.0ft BGS                                                               | 10.00           |          |                     |          |         |           |           |
| 12              |                                                                                            |                 |          |                     |          |         |           |           |
| 14              |                                                                                            |                 |          |                     |          |         |           |           |
| 16              |                                                                                            |                 |          |                     |          |         |           |           |
| 18              |                                                                                            |                 |          |                     |          |         |           |           |
| 20              |                                                                                            |                 |          |                     |          |         |           |           |
| 22              |                                                                                            |                 |          |                     |          |         |           |           |
| 24              |                                                                                            |                 |          |                     |          |         |           |           |
| 26              |                                                                                            |                 |          |                     |          |         |           |           |
| 28              |                                                                                            |                 |          |                     |          |         |           |           |
| 30              |                                                                                            |                 |          |                     |          |         |           |           |
| 32              |                                                                                            |                 |          |                     |          |         |           |           |
| 34              |                                                                                            |                 |          |                     |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - PCC WEST  
PROJECT NUMBER: 007097  
CLIENT: RACER  
LOCATION: PONTIAC, MI

HOLE DESIGNATION: SB-17-12  
DATE COMPLETED: October 2, 2012  
DRILLING METHOD: GEOPROBE  
FIELD PERSONNEL: M. CORAM

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                            | DEPTH<br>ft BGS | BOREHOLE | SAMPLE |          |         |           |           |
|-----------------|------------------------------------------------------------------------------------------------|-----------------|----------|--------|----------|---------|-----------|-----------|
|                 |                                                                                                |                 |          | NUMBER | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                       |                 |          |        |          |         |           |           |
| 2               | SC-CLAYEY SAND, trace gravel, medium to fine grained, fine gravel, poorly graded, brown, moist | 0.83            |          | 1GP    |          |         |           | 0.1       |
| 4               |                                                                                                |                 |          |        |          |         |           |           |
| 6               |                                                                                                |                 |          | 2GP    |          |         |           | 0.1       |
| 8               |                                                                                                |                 |          |        |          |         |           |           |
| 10              |                                                                                                |                 |          |        |          |         |           |           |
| 12              | SP-SAND, medium to fine grained, gray, moist                                                   | 12.00           |          |        |          |         |           |           |
| 14              | CL-CLAY, moderate plasticity, gray                                                             | 13.00           |          | 3GP    |          |         |           | 0.2       |
| 16              | END OF BOREHOLE @ 15.0ft BGS                                                                   | 15.00           |          |        |          |         |           |           |
| 18              |                                                                                                |                 |          |        |          |         |           |           |
| 20              |                                                                                                |                 |          |        |          |         |           |           |
| 22              |                                                                                                |                 |          |        |          |         |           |           |
| 24              |                                                                                                |                 |          |        |          |         |           |           |
| 26              |                                                                                                |                 |          |        |          |         |           |           |
| 28              |                                                                                                |                 |          |        |          |         |           |           |
| 30              |                                                                                                |                 |          |        |          |         |           |           |
| 32              |                                                                                                |                 |          |        |          |         |           |           |
| 34              |                                                                                                |                 |          |        |          |         |           |           |

OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - PCC WEST

HOLE DESIGNATION: SB-18-12

PROJECT NUMBER: 007097

DATE COMPLETED: October 2, 2012

CLIENT: RACER

DRILLING METHOD: GEOPROBE

LOCATION: PONTIAC, MI

FIELD PERSONNEL: M. CORAM

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                     | DEPTH<br>ft BGS | BOREHOLE | SAMPLE |          |         |           |           |
|-----------------|-------------------------------------------------------------------------|-----------------|----------|--------|----------|---------|-----------|-----------|
|                 |                                                                         |                 |          | NUMBER | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                | 0.50            |          |        |          |         |           |           |
| 2               | SP-SAND, trace silt, trace gravel, medium to fine grained, brown, moist |                 |          | 1GP    |          |         |           | 0.6       |
| 4               |                                                                         |                 |          |        |          |         |           | 0.5       |
| 6               |                                                                         |                 |          |        |          |         |           | 0.5       |
| 8               |                                                                         |                 |          | 2GP    |          |         |           | 0.6       |
| 10              |                                                                         |                 |          |        |          |         |           | 0.5       |
| 12              |                                                                         |                 |          |        |          |         |           |           |
| 14              |                                                                         |                 |          |        |          |         |           |           |
| 16              | END OF BOREHOLE @ 15.0ft BGS                                            | 15.00           |          |        |          |         |           |           |
| 18              |                                                                         |                 |          |        |          |         |           |           |
| 20              |                                                                         |                 |          |        |          |         |           |           |
| 22              |                                                                         |                 |          |        |          |         |           |           |
| 24              |                                                                         |                 |          |        |          |         |           |           |
| 26              |                                                                         |                 |          |        |          |         |           |           |
| 28              |                                                                         |                 |          |        |          |         |           |           |
| 30              |                                                                         |                 |          |        |          |         |           |           |
| 32              |                                                                         |                 |          |        |          |         |           |           |
| 34              |                                                                         |                 |          |        |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - PCC WEST  
PROJECT NUMBER: 007097  
CLIENT: RACER  
LOCATION: PONTIAC, MI

HOLE DESIGNATION: SB-19-12  
DATE COMPLETED: October 2, 2012  
DRILLING METHOD: GEOPROBE  
FIELD PERSONNEL: M. CORAM

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                                     | DEPTH<br>ft BGS | BOREHOLE | SAMPLE |          |         |           |           |
|-----------------|---------------------------------------------------------------------------------------------------------|-----------------|----------|--------|----------|---------|-----------|-----------|
|                 |                                                                                                         |                 |          | NUMBER | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                                                |                 |          |        |          |         |           | 1.5       |
| 2               | SP-SAND, trace silt, trace gravel, medium to fine grained, brown, moist                                 | 1.50            |          | 1GP    |          |         |           | 1.2       |
| 4               | CI-CLAY, trace sand, gravel, firm, moderate plasticity                                                  | 3.50            |          |        |          |         |           | 0.7       |
| 6               | SP-SAND, trace silt, trace gravel, medium to fine grained, brown, moist                                 | 4.00            |          |        |          |         |           | 0.6       |
| 8               |                                                                                                         |                 |          | 2GP    |          |         |           | 0.5       |
| 10              |                                                                                                         |                 |          |        |          |         |           | 0.2       |
| 12              | CL-SILTY CLAY, trace silt, trace gravel, medium to fine grained, moderate plasticity, firm, gray, moist | 11.50           |          | 3GP    |          |         |           | 0.1       |
| 14              |                                                                                                         |                 |          |        |          |         |           |           |
| 16              | END OF BOREHOLE @ 15.0ft BGS                                                                            | 15.00           |          |        |          |         |           |           |
| 18              |                                                                                                         |                 |          |        |          |         |           |           |
| 20              |                                                                                                         |                 |          |        |          |         |           |           |
| 22              |                                                                                                         |                 |          |        |          |         |           |           |
| 24              |                                                                                                         |                 |          |        |          |         |           |           |
| 26              |                                                                                                         |                 |          |        |          |         |           |           |
| 28              |                                                                                                         |                 |          |        |          |         |           |           |
| 30              |                                                                                                         |                 |          |        |          |         |           |           |
| 32              |                                                                                                         |                 |          |        |          |         |           |           |
| 34              |                                                                                                         |                 |          |        |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - PCC WEST

PROJECT NUMBER: 007097

CLIENT: RACER

LOCATION: PONTIAC, MI

HOLE DESIGNATION: SB-20-12

DATE COMPLETED: October 2, 2012

DRILLING METHOD: GEOPROBE

FIELD PERSONNEL: M. CORAM

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                                    | DEPTH<br>ft BGS | BOREHOLE | SAMPLE |          |         |           |           |
|-----------------|----------------------------------------------------------------------------------------|-----------------|----------|--------|----------|---------|-----------|-----------|
|                 |                                                                                        |                 |          | NUMBER | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | CONCRETE                                                                               |                 |          |        |          |         |           |           |
| 2               | CL-CLAY, with sand, trace gravel, medium to fine grained, low plasticity, stiff, brown | 1.00            |          | 1GP    |          |         |           | 1.5       |
| 4               | SP-SAND, trace silt, trace gravel, medium to fine grained, brown, moist                | 3.50            |          |        |          |         |           | 1.0       |
| 6               |                                                                                        |                 |          |        |          |         |           | 1.2       |
| 8               | CI-CLAY, trace silt, trace gravel, moderately soft, moderate plasticity, gray, moist   | 8.00            |          | 2GP    |          |         |           | 1.4       |
| 10              |                                                                                        |                 |          |        |          |         |           | 1.5       |
| 12              | - firm at 12.0ft BGS                                                                   |                 |          |        |          |         |           |           |
| 14              | SP-SAND, with gravel, medium grained, gray/brown, wet                                  | 14.00           |          |        |          |         |           | 0.7       |
| 16              | END OF BOREHOLE @ 15.0ft BGS                                                           | 15.00           |          |        |          |         |           |           |
| 18              |                                                                                        |                 |          |        |          |         |           |           |
| 20              |                                                                                        |                 |          |        |          |         |           |           |
| 22              |                                                                                        |                 |          |        |          |         |           |           |
| 24              |                                                                                        |                 |          |        |          |         |           |           |
| 26              |                                                                                        |                 |          |        |          |         |           |           |
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| 34              |                                                                                        |                 |          |        |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - PCC WEST  
PROJECT NUMBER: 007097  
CLIENT: RACER  
LOCATION: PONTIAC, MI

HOLE DESIGNATION: SB-21-12  
DATE COMPLETED: October 2, 2012  
DRILLING METHOD: GEOPROBE  
FIELD PERSONNEL: M. CORAM

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                       | DEPTH<br>ft BGS | BOREHOLE | SAMPLE       |          |         |           |           |
|-----------------|---------------------------------------------------------------------------|-----------------|----------|--------------|----------|---------|-----------|-----------|
|                 |                                                                           |                 |          | NUMBER       | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
| 2               | ASPHALT                                                                   |                 |          | 1GP          |          |         |           | 1.1       |
| 4               |                                                                           |                 |          |              |          |         |           | 1.2       |
| 6               | SP-SAND, trace silt, trace gravel, medium to fine grained, brown, moist   | 5.00            |          | 4.5-6.5'-033 |          |         |           | 1.3       |
| 8               | CI-CLAY, trace silt, trace gravel, firm, moderate plasticity, gray, moist | 7.00            |          | 2GP          |          |         |           | 0.7       |
| 10              |                                                                           |                 |          |              |          |         |           | 0.6       |
| 12              |                                                                           |                 |          | 10-12'-034   |          |         |           | 0.4       |
| 14              |                                                                           |                 |          | 3GP          |          |         |           |           |
| 16              | END OF BOREHOLE @ 15.0ft BGS                                              | 15.00           |          |              |          |         |           |           |
| 18              |                                                                           |                 |          |              |          |         |           |           |
| 20              |                                                                           |                 |          |              |          |         |           |           |
| 22              |                                                                           |                 |          |              |          |         |           |           |
| 24              |                                                                           |                 |          |              |          |         |           |           |
| 26              |                                                                           |                 |          |              |          |         |           |           |
| 28              |                                                                           |                 |          |              |          |         |           |           |
| 30              |                                                                           |                 |          |              |          |         |           |           |
| 32              |                                                                           |                 |          |              |          |         |           |           |
| 34              |                                                                           |                 |          |              |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - PCC WEST  
PROJECT NUMBER: 007097  
CLIENT: RACER  
LOCATION: PONTIAC, MI

HOLE DESIGNATION: SB-22-12  
DATE COMPLETED: October 2, 2012  
DRILLING METHOD: GEOPROBE  
FIELD PERSONNEL: M. CORAM

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                         | DEPTH<br>ft BGS | BOREHOLE | SAMPLE |          |         |           |           |
|-----------------|-------------------------------------------------------------|-----------------|----------|--------|----------|---------|-----------|-----------|
|                 |                                                             |                 |          | NUMBER | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
|                 | ASPHALT/PAVEMENT                                            | 0.50            |          |        |          |         |           |           |
| 2               | SP-SAND, trace gravel, medium to fine grained, brown, moist |                 |          | 1GP    |          |         |           | 1.5       |
| 4               |                                                             |                 |          |        |          |         |           | 1.2       |
| 6               |                                                             |                 |          |        |          |         |           | 1.5       |
| 8               | SC-CLAYEY SAND, grave, medium to fine sand, brown, wet      | 7.50            |          | 2GP    |          |         |           | 1.9       |
| 10              | CI-SILTY CLAY, trace sand, trace gravel, gray, moist        | 8.00            |          |        |          |         |           | 1.6       |
| 12              |                                                             |                 |          |        |          |         |           | 1.2       |
| 14              |                                                             |                 |          | 3GP    |          |         |           | 1.0       |
| 16              | END OF BOREHOLE @ 15.0ft BGS                                | 15.00           |          |        |          |         |           |           |
| 18              |                                                             |                 |          |        |          |         |           |           |
| 20              |                                                             |                 |          |        |          |         |           |           |
| 22              |                                                             |                 |          |        |          |         |           |           |
| 24              |                                                             |                 |          |        |          |         |           |           |
| 26              |                                                             |                 |          |        |          |         |           |           |
| 28              |                                                             |                 |          |        |          |         |           |           |
| 30              |                                                             |                 |          |        |          |         |           |           |
| 32              |                                                             |                 |          |        |          |         |           |           |
| 34              |                                                             |                 |          |        |          |         |           |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 7097-PCC WEST.GPJ CRA\_CORP.GDT 11/19/12

ATTACHMENT 3  
LABORATORY ANALYTICAL REPORTS

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-15886-1

Client Project/Site: 7097-T05, RACER PCC

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Mr. Paul Wiseman



Authorized for release by:

10/16/2012 10:49:03 AM

Denise Heckler

Project Manager II

[denise.heckler@testamericainc.com](mailto:denise.heckler@testamericainc.com)

### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

**Job ID: 240-15886-1**

**Laboratory: TestAmerica Canton**

**Narrative**

### CASE NARRATIVE

**Client: Conestoga-Rovers & Associates, Inc.**

**Project: 7097-T05, RACER PCC**

**Report Number: 240-15886-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

#### **RECEIPT**

The samples were received on 10/03/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.7 C.

#### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples S-007097-10212-MC-026 (240-15886-1), S-007097-10212-MC-027 (240-15886-2), S-007097-10212-MC-028 (240-15886-3), S-007097-10212-MC-029 (240-15886-4), S-007097-10212-MC-030 (240-15886-5), S-007097-10212-MC-031 (240-15886-6), S-007097-10212-MC-032 (240-15886-7), S-007097-10212-MC-033 (240-15886-8), S-007097-10212-MC-034 (240-15886-9), S-007097-10212-MC-035 (240-15886-10), S-007097-10212-MC-036 (240-15886-11) and TB-007097-10212-MC-037 (240-15886-12) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 10/05/2012 and 10/10/2012 and analyzed on 10/09/2012 and 10/10/2012.

The laboratory control sample (LCS) for batch 60727 exceeded control limits for the following analyte(s): bromomethane. This analyte has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The results have been reported and qualified.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

Job ID: 240-15886-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

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## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| *         | LCS or LCSD exceeds the control limits                                                                         |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                |
|----------------|------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                 |
| %R             | Percent Recovery                                                                                           |
| CNF            | Contains no Free Liquid                                                                                    |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL            | Estimated Detection Limit                                                                                  |
| EPA            | United States Environmental Protection Agency                                                              |
| MDL            | Method Detection Limit                                                                                     |
| ML             | Minimum Level (Dioxin)                                                                                     |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)                                               |
| PQL            | Practical Quantitation Limit                                                                               |
| QC             | Quality Control                                                                                            |
| RL             | Reporting Limit                                                                                            |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                       |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                        |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                      |

## Sample Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

| Lab Sample ID | Client Sample ID       | Matrix | Collected      | Received       |
|---------------|------------------------|--------|----------------|----------------|
| 240-15886-1   | S-007097-10212-MC-026  | Solid  | 10/02/12 09:00 | 10/03/12 09:30 |
| 240-15886-2   | S-007097-10212-MC-027  | Solid  | 10/02/12 09:10 | 10/03/12 09:30 |
| 240-15886-3   | S-007097-10212-MC-028  | Solid  | 10/02/12 09:30 | 10/03/12 09:30 |
| 240-15886-4   | S-007097-10212-MC-029  | Solid  | 10/02/12 10:00 | 10/03/12 09:30 |
| 240-15886-5   | S-007097-10212-MC-030  | Solid  | 10/02/12 10:10 | 10/03/12 09:30 |
| 240-15886-6   | S-007097-10212-MC-031  | Solid  | 10/02/12 10:30 | 10/03/12 09:30 |
| 240-15886-7   | S-007097-10212-MC-032  | Solid  | 10/02/12 11:30 | 10/03/12 09:30 |
| 240-15886-8   | S-007097-10212-MC-033  | Solid  | 10/02/12 12:00 | 10/03/12 09:30 |
| 240-15886-9   | S-007097-10212-MC-034  | Solid  | 10/02/12 12:10 | 10/03/12 09:30 |
| 240-15886-10  | S-007097-10212-MC-035  | Solid  | 10/02/12 12:30 | 10/03/12 09:30 |
| 240-15886-11  | S-007097-10212-MC-036  | Solid  | 10/02/12 12:40 | 10/03/12 09:30 |
| 240-15886-12  | TB-007097-10212-MC-037 | Solid  | 10/02/12 00:00 | 10/03/12 09:30 |

## Detection Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

### Client Sample ID: S-007097-10212-MC-026

### Lab Sample ID: 240-15886-1

| Analyte                | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| 1,1-Dichloroethane     | 36     | J         | 43   | 18  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| 1,2,4-Trimethylbenzene | 77     | J         | 85   | 5.3 | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Ethylbenzene           | 10     | J         | 43   | 5.8 | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Trichloroethene        | 71     |           | 43   | 10  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Xylenes, Total         | 59     | J         | 130  | 8.6 | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| 1,1,1-Trichloroethane  | 86     |           | 43   | 22  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Isopropylbenzene       | 23     | J         | 210  | 6.9 | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Methylcyclohexane      | 17     | J         | 1000 | 13  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| 2-Methylnaphthalene    | 23     | J         | 270  | 18  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Naphthalene            | 29     | J         | 270  | 7.1 | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |

### Client Sample ID: S-007097-10212-MC-027

### Lab Sample ID: 240-15886-2

| Analyte                | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| 1,1-Dichloroethane     | 140    |           | 44   | 19  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| 1,1-Dichloroethene     | 280    |           | 44   | 20  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| 1,2,4-Trimethylbenzene | 18     | J         | 89   | 5.6 | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Tetrachloroethene      | 23     | J         | 44   | 13  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Toluene                | 25     | J         | 89   | 19  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Trichloroethene        | 190    |           | 44   | 11  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Xylenes, Total         | 53     | J         | 130  | 9.0 | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| 1,1,1-Trichloroethane  | 880    |           | 44   | 23  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Methyl acetate         | 170    | J         | 1100 | 28  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Methylcyclohexane      | 13     | J         | 1100 | 13  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| 2-Methylnaphthalene    | 33     | J         | 280  | 19  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Naphthalene            | 33     | J         | 280  | 7.4 | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |

### Client Sample ID: S-007097-10212-MC-028

### Lab Sample ID: 240-15886-3

| Analyte               | Result | Qualifier | RL | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|-----------------------|--------|-----------|----|-----|-------|---------|---|--------|-----------|
| Trichloroethene       | 1000   |           | 47 | 11  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| 1,1,1-Trichloroethane | 81     |           | 47 | 25  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |

### Client Sample ID: S-007097-10212-MC-029

### Lab Sample ID: 240-15886-4

| Analyte               | Result | Qualifier | RL | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|-----------------------|--------|-----------|----|-----|-------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 36     | J         | 40 | 21  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |

### Client Sample ID: S-007097-10212-MC-030

### Lab Sample ID: 240-15886-5

| Analyte               | Result | Qualifier | RL  | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|-----------------------|--------|-----------|-----|-----|-------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 43     |           | 40  | 21  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| 2-Methylnaphthalene   | 94     | J         | 250 | 17  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Naphthalene           | 42     | J         | 250 | 6.7 | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |

### Client Sample ID: S-007097-10212-MC-031

### Lab Sample ID: 240-15886-6

| Analyte               | Result | Qualifier | RL | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|-----------------------|--------|-----------|----|-----|-------|---------|---|--------|-----------|
| Tetrachloroethene     | 35     | J         | 46 | 14  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Trichloroethene       | 420    |           | 46 | 11  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |
| 1,1,1-Trichloroethane | 500    |           | 46 | 24  | ug/Kg | 1       | ☼ | 8260B  | Total/NA  |

## Detection Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

### Client Sample ID: S-007097-10212-MC-032

Lab Sample ID: 240-15886-7

No Detections

### Client Sample ID: S-007097-10212-MC-033

Lab Sample ID: 240-15886-8

| Analyte               | Result | Qualifier | RL | MDL | Unit  | Dil | Fac | D | Method | Prep Type |
|-----------------------|--------|-----------|----|-----|-------|-----|-----|---|--------|-----------|
| Tetrachloroethene     | 950    |           | 43 | 13  | ug/Kg | 1   |     | ☼ | 8260B  | Total/NA  |
| Trichloroethene       | 130    |           | 43 | 10  | ug/Kg | 1   |     | ☼ | 8260B  | Total/NA  |
| 1,1,1-Trichloroethane | 43     |           | 43 | 23  | ug/Kg | 1   |     | ☼ | 8260B  | Total/NA  |

### Client Sample ID: S-007097-10212-MC-034

Lab Sample ID: 240-15886-9

| Analyte                | Result | Qualifier | RL   | MDL | Unit  | Dil | Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|-----|-------|-----|-----|---|--------|-----------|
| 1,2,4-Trimethylbenzene | 18     | J         | 90   | 5.6 | ug/Kg | 1   |     | ☼ | 8260B  | Total/NA  |
| Methylcyclohexane      | 85     | J         | 1100 | 14  | ug/Kg | 1   |     | ☼ | 8260B  | Total/NA  |

### Client Sample ID: S-007097-10212-MC-035

Lab Sample ID: 240-15886-10

No Detections

### Client Sample ID: S-007097-10212-MC-036

Lab Sample ID: 240-15886-11

| Analyte                | Result | Qualifier | RL  | MDL | Unit  | Dil | Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|-------|-----|-----|---|--------|-----------|
| 1,2,4-Trimethylbenzene | 71     | J         | 91  | 5.7 | ug/Kg | 1   |     | ☼ | 8260B  | Total/NA  |
| 1,3,5-Trimethylbenzene | 21     | J         | 91  | 6.6 | ug/Kg | 1   |     | ☼ | 8260B  | Total/NA  |
| Vinyl chloride         | 120    |           | 36  | 20  | ug/Kg | 1   |     | ☼ | 8260B  | Total/NA  |
| 2-Methylnaphthalene    | 83     | J         | 280 | 19  | ug/Kg | 1   |     | ☼ | 8260B  | Total/NA  |
| Naphthalene            | 11     | J         | 280 | 7.6 | ug/Kg | 1   |     | ☼ | 8260B  | Total/NA  |

### Client Sample ID: TB-007097-10212-MC-037

Lab Sample ID: 240-15886-12

| Analyte                | Result | Qualifier | RL | MDL | Unit  | Dil | Fac | D | Method | Prep Type |
|------------------------|--------|-----------|----|-----|-------|-----|-----|---|--------|-----------|
| 1,2,4-Trimethylbenzene | 8.4    | J         | 80 | 5.0 | ug/Kg | 1   |     |   | 8260B  | Total/NA  |

## Method Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

| Method   | Method Description                 | Protocol | Laboratory |
|----------|------------------------------------|----------|------------|
| 8260B    | Volatile Organic Compounds (GC/MS) | SW846    | TAL NC     |
| Moisture | Percent Moisture                   | EPA      | TAL NC     |

### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-007097-10212-MC-026

Date Collected: 10/02/12 09:00

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-1

Matrix: Solid

Percent Solids: 94.0

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 640    | U         | 640  | 180 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Benzene                               | 43     | U         | 43   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Bromodichloromethane                  | 85     | U         | 85   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Bromoform                             | 85     | U         | 85   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Bromomethane                          | 210    | U         | 210  | 31  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 2-Butanone (MEK)                      | 640    | U         | 640  | 46  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Carbon disulfide                      | 210    | U         | 210  | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Carbon tetrachloride                  | 43     | U         | 43   | 6.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Chlorobenzene                         | 43     | U         | 43   | 6.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Chloroethane                          | 210    | U         | 210  | 65  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Chloroform                            | 43     | U         | 43   | 9.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Chloromethane                         | 210    | U         | 210  | 15  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,1-Dichloroethane                    | 36     | J         | 43   | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,2-Dichloroethane                    | 43     | U         | 43   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,1-Dichloroethene                    | 43     | U         | 43   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,2-Dichloropropane                   | 43     | U         | 43   | 8.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,2,4-Trimethylbenzene                | 77     | J         | 85   | 5.3 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| cis-1,3-Dichloropropene               | 43     | U         | 43   | 8.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| trans-1,3-Dichloropropene             | 43     | U         | 43   | 21  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Ethylbenzene                          | 10     | J         | 43   | 5.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 2-Hexanone                            | 2100   | U         | 2100 | 21  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Methylene Chloride                    | 210    | U         | 210  | 82  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2100   | U         | 2100 | 51  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Styrene                               | 43     | U         | 43   | 6.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,1,2,2-Tetrachloroethane             | 43     | U         | 43   | 9.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Tetrachloroethene                     | 43     | U         | 43   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Toluene                               | 85     | U         | 85   | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Trichloroethene                       | 71     |           | 43   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,3,5-Trimethylbenzene                | 85     | U         | 85   | 6.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Vinyl chloride                        | 34     | U         | 34   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Xylenes, Total                        | 59     | J         | 130  | 8.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,1,1-Trichloroethane                 | 86     |           | 43   | 22  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,1,2-Trichloroethane                 | 43     | U         | 43   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Cyclohexane                           | 1000   | U         | 1000 | 43  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 210    | U         | 210  | 53  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,2-Dibromoethane                     | 210    | U         | 210  | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Dichlorodifluoromethane               | 85     | U         | 85   | 17  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| cis-1,2-Dichloroethene                | 43     | U         | 43   | 7.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| trans-1,2-Dichloroethene              | 43     | U         | 43   | 9.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Isopropylbenzene                      | 23     | J         | 210  | 6.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Methyl acetate                        | 1000   | U         | 1000 | 27  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Methyl tert-butyl ether               | 210    | U         | 210  | 7.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 210    | U         | 210  | 42  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,2,4-Trichlorobenzene                | 210    | U         | 210  | 7.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,2-Dichlorobenzene                   | 85     | U         | 85   | 9.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,3-Dichlorobenzene                   | 85     | U         | 85   | 5.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 1,4-Dichlorobenzene                   | 85     | U         | 85   | 8.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Trichlorofluoromethane                | 85     | U         | 85   | 17  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Dibromochloromethane                  | 43     | U         | 43   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Methylcyclohexane                     | 17     | J         | 1000 | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 2-Methylnaphthalene                   | 23     | J         | 270  | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-007097-10212-MC-026

Lab Sample ID: 240-15886-1

Date Collected: 10/02/12 09:00

Matrix: Solid

Date Received: 10/03/12 09:30

Percent Solids: 94.0

| Analyte     | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | 29     | J         | 270 | 7.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 03:58 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 87        |           | 39 - 128 | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| 4-Bromofluorobenzene (Surr)  | 83        |           | 26 - 141 | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Toluene-d8 (Surr)            | 80        |           | 33 - 134 | 10/05/12 21:12 | 10/09/12 03:58 | 1       |
| Dibromofluoromethane (Surr)  | 77        |           | 30 - 122 | 10/05/12 21:12 | 10/09/12 03:58 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-007097-10212-MC-027

Date Collected: 10/02/12 09:10

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-2

Matrix: Solid

Percent Solids: 89.7

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 670    | U         | 670  | 190 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Benzene                               | 44     | U         | 44   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Bromodichloromethane                  | 89     | U         | 89   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Bromoform                             | 89     | U         | 89   | 21  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Bromomethane                          | 220    | U         | 220  | 32  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 2-Butanone (MEK)                      | 670    | U         | 670  | 48  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Carbon disulfide                      | 220    | U         | 220  | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Carbon tetrachloride                  | 44     | U         | 44   | 7.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Chlorobenzene                         | 44     | U         | 44   | 7.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Chloroethane                          | 220    | U         | 220  | 68  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Chloroform                            | 44     | U         | 44   | 9.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Chloromethane                         | 220    | U         | 220  | 16  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,1-Dichloroethane                    | 140    |           | 44   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,2-Dichloroethane                    | 44     | U         | 44   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,1-Dichloroethene                    | 280    |           | 44   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,2-Dichloropropane                   | 44     | U         | 44   | 9.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,2,4-Trimethylbenzene                | 18     | J         | 89   | 5.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| cis-1,3-Dichloropropene               | 44     | U         | 44   | 8.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| trans-1,3-Dichloropropene             | 44     | U         | 44   | 22  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Ethylbenzene                          | 44     | U         | 44   | 6.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 2-Hexanone                            | 2200   | U         | 2200 | 22  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Methylene Chloride                    | 220    | U         | 220  | 86  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2200   | U         | 2200 | 53  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Styrene                               | 44     | U         | 44   | 6.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,1,2,2-Tetrachloroethane             | 44     | U         | 44   | 9.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Tetrachloroethene                     | 23     | J         | 44   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Toluene                               | 25     | J         | 89   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Trichloroethene                       | 190    |           | 44   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,3,5-Trimethylbenzene                | 89     | U         | 89   | 6.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Vinyl chloride                        | 36     | U         | 36   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Xylenes, Total                        | 53     | J         | 130  | 9.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,1,1-Trichloroethane                 | 880    |           | 44   | 23  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,1,2-Trichloroethane                 | 44     | U         | 44   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Cyclohexane                           | 1100   | U         | 1100 | 44  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 220    | U         | 220  | 56  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,2-Dibromoethane                     | 220    | U         | 220  | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Dichlorodifluoromethane               | 89     | U         | 89   | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| cis-1,2-Dichloroethene                | 44     | U         | 44   | 7.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| trans-1,2-Dichloroethene              | 44     | U         | 44   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Isopropylbenzene                      | 220    | U         | 220  | 7.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Methyl acetate                        | 170    | J         | 1100 | 28  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Methyl tert-butyl ether               | 220    | U         | 220  | 7.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 220    | U         | 220  | 43  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,2,4-Trichlorobenzene                | 220    | U         | 220  | 8.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,2-Dichlorobenzene                   | 89     | U         | 89   | 9.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,3-Dichlorobenzene                   | 89     | U         | 89   | 5.3 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 1,4-Dichlorobenzene                   | 89     | U         | 89   | 8.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Trichlorofluoromethane                | 89     | U         | 89   | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Dibromochloromethane                  | 44     | U         | 44   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Methylcyclohexane                     | 13     | J         | 1100 | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 2-Methylnaphthalene                   | 33     | J         | 280  | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-007097-10212-MC-027

Lab Sample ID: 240-15886-2

Date Collected: 10/02/12 09:10

Matrix: Solid

Date Received: 10/03/12 09:30

Percent Solids: 89.7

| Analyte     | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | 33     | J         | 280 | 7.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:22 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 87        |           | 39 - 128 | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| 4-Bromofluorobenzene (Surr)  | 80        |           | 26 - 141 | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Toluene-d8 (Surr)            | 80        |           | 33 - 134 | 10/05/12 21:12 | 10/09/12 04:22 | 1       |
| Dibromofluoromethane (Surr)  | 75        |           | 30 - 122 | 10/05/12 21:12 | 10/09/12 04:22 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-007097-10212-MC-028

Date Collected: 10/02/12 09:30

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-3

Matrix: Solid

Percent Solids: 84.0

| Analyte                               | Result      | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|-------------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 710         | U         | 710  | 200 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Benzene                               | 47          | U         | 47   | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Bromodichloromethane                  | 95          | U         | 95   | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Bromoform                             | 95          | U         | 95   | 23  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Bromomethane                          | 240         | U         | 240  | 34  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 2-Butanone (MEK)                      | 710         | U         | 710  | 51  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Carbon disulfide                      | 240         | U         | 240  | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Carbon tetrachloride                  | 47          | U         | 47   | 7.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Chlorobenzene                         | 47          | U         | 47   | 7.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Chloroethane                          | 240         | U         | 240  | 72  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Chloroform                            | 47          | U         | 47   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Chloromethane                         | 240         | U         | 240  | 17  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,1-Dichloroethane                    | 47          | U         | 47   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,2-Dichloroethane                    | 47          | U         | 47   | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,1-Dichloroethene                    | 47          | U         | 47   | 21  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,2-Dichloropropane                   | 47          | U         | 47   | 9.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,2,4-Trimethylbenzene                | 95          | U         | 95   | 5.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| cis-1,3-Dichloropropene               | 47          | U         | 47   | 9.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| trans-1,3-Dichloropropene             | 47          | U         | 47   | 24  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Ethylbenzene                          | 47          | U         | 47   | 6.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 2-Hexanone                            | 2400        | U         | 2400 | 24  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Methylene Chloride                    | 240         | U         | 240  | 91  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2400        | U         | 2400 | 57  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Styrene                               | 47          | U         | 47   | 6.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,1,2,2-Tetrachloroethane             | 47          | U         | 47   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Tetrachloroethene                     | 47          | U         | 47   | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Toluene                               | 95          | U         | 95   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| <b>Trichloroethene</b>                | <b>1000</b> |           | 47   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,3,5-Trimethylbenzene                | 95          | U         | 95   | 6.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Vinyl chloride                        | 38          | U         | 38   | 21  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Xylenes, Total                        | 140         | U         | 140  | 9.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| <b>1,1,1-Trichloroethane</b>          | <b>81</b>   |           | 47   | 25  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,1,2-Trichloroethane                 | 47          | U         | 47   | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Cyclohexane                           | 1100        | U         | 1100 | 47  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 240         | U         | 240  | 59  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,2-Dibromoethane                     | 240         | U         | 240  | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Dichlorodifluoromethane               | 95          | U         | 95   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| cis-1,2-Dichloroethene                | 47          | U         | 47   | 8.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| trans-1,2-Dichloroethene              | 47          | U         | 47   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Isopropylbenzene                      | 240         | U         | 240  | 7.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Methyl acetate                        | 1100        | U         | 1100 | 30  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Methyl tert-butyl ether               | 240         | U         | 240  | 8.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 240         | U         | 240  | 46  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,2,4-Trichlorobenzene                | 240         | U         | 240  | 8.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,2-Dichlorobenzene                   | 95          | U         | 95   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,3-Dichlorobenzene                   | 95          | U         | 95   | 5.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 1,4-Dichlorobenzene                   | 95          | U         | 95   | 9.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Trichlorofluoromethane                | 95          | U         | 95   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Dibromochloromethane                  | 47          | U         | 47   | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Methylcyclohexane                     | 1100        | U         | 1100 | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 2-Methylnaphthalene                   | 300         | U         | 300  | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-007097-10212-MC-028

Date Collected: 10/02/12 09:30

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-3

Matrix: Solid

Percent Solids: 84.0

| Analyte     | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | 300    | U         | 300 | 7.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 04:46 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 92        |           | 39 - 128 | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 26 - 141 | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Toluene-d8 (Surr)            | 85        |           | 33 - 134 | 10/05/12 21:12 | 10/09/12 04:46 | 1       |
| Dibromofluoromethane (Surr)  | 81        |           | 30 - 122 | 10/05/12 21:12 | 10/09/12 04:46 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-007097-10212-MC-029

Date Collected: 10/02/12 10:00

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-4

Matrix: Solid

Percent Solids: 94.1

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 610    | U         | 610  | 170 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Benzene                               | 40     | U         | 40   | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Bromodichloromethane                  | 81     | U         | 81   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Bromoform                             | 81     | U         | 81   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Bromomethane                          | 200    | U         | 200  | 29  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 2-Butanone (MEK)                      | 610    | U         | 610  | 43  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Carbon disulfide                      | 200    | U         | 200  | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Carbon tetrachloride                  | 40     | U         | 40   | 6.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Chlorobenzene                         | 40     | U         | 40   | 6.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Chloroethane                          | 200    | U         | 200  | 62  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Chloroform                            | 40     | U         | 40   | 8.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Chloromethane                         | 200    | U         | 200  | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,1-Dichloroethane                    | 40     | U         | 40   | 17  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,2-Dichloroethane                    | 40     | U         | 40   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,1-Dichloroethene                    | 40     | U         | 40   | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,2-Dichloropropane                   | 40     | U         | 40   | 8.3 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,2,4-Trimethylbenzene                | 81     | U         | 81   | 5.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| cis-1,3-Dichloropropene               | 40     | U         | 40   | 8.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| trans-1,3-Dichloropropene             | 40     | U         | 40   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Ethylbenzene                          | 40     | U         | 40   | 5.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 2-Hexanone                            | 2000   | U         | 2000 | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Methylene Chloride                    | 200    | U         | 200  | 78  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2000   | U         | 2000 | 49  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Styrene                               | 40     | U         | 40   | 5.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,1,2,2-Tetrachloroethane             | 40     | U         | 40   | 9.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Tetrachloroethene                     | 40     | U         | 40   | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Toluene                               | 81     | U         | 81   | 17  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Trichloroethene                       | 40     | U         | 40   | 9.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,3,5-Trimethylbenzene                | 81     | U         | 81   | 5.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Vinyl chloride                        | 32     | U         | 32   | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Xylenes, Total                        | 120    | U         | 120  | 8.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,1,1-Trichloroethane                 | 36     | J         | 40   | 21  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,1,2-Trichloroethane                 | 40     | U         | 40   | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Cyclohexane                           | 970    | U         | 970  | 40  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 200    | U         | 200  | 51  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,2-Dibromoethane                     | 200    | U         | 200  | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Dichlorodifluoromethane               | 81     | U         | 81   | 16  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| cis-1,2-Dichloroethene                | 40     | U         | 40   | 7.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| trans-1,2-Dichloroethene              | 40     | U         | 40   | 9.3 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Isopropylbenzene                      | 200    | U         | 200  | 6.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Methyl acetate                        | 970    | U         | 970  | 25  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Methyl tert-butyl ether               | 200    | U         | 200  | 7.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 200    | U         | 200  | 39  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,2,4-Trichlorobenzene                | 200    | U         | 200  | 7.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,2-Dichlorobenzene                   | 81     | U         | 81   | 8.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,3-Dichlorobenzene                   | 81     | U         | 81   | 4.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 1,4-Dichlorobenzene                   | 81     | U         | 81   | 8.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Trichlorofluoromethane                | 81     | U         | 81   | 16  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Dibromochloromethane                  | 40     | U         | 40   | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Methylcyclohexane                     | 970    | U         | 970  | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 2-Methylnaphthalene                   | 250    | U         | 250  | 17  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-007097-10212-MC-029

Date Collected: 10/02/12 10:00

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-4

Matrix: Solid

Percent Solids: 94.1

| Analyte     | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | 250    | U         | 250 | 6.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 05:10 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 39 - 128 | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 26 - 141 | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Toluene-d8 (Surr)            | 87        |           | 33 - 134 | 10/05/12 21:12 | 10/09/12 05:10 | 1       |
| Dibromofluoromethane (Surr)  | 85        |           | 30 - 122 | 10/05/12 21:12 | 10/09/12 05:10 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-007097-10212-MC-030

Date Collected: 10/02/12 10:10

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-5

Matrix: Solid

Percent Solids: 93.4

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 600    | U         | 600  | 170 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Benzene                               | 40     | U         | 40   | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Bromodichloromethane                  | 80     | U         | 80   | 9.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Bromoform                             | 80     | U         | 80   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Bromomethane                          | 200    | U         | 200  | 29  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 2-Butanone (MEK)                      | 600    | U         | 600  | 43  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Carbon disulfide                      | 200    | U         | 200  | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Carbon tetrachloride                  | 40     | U         | 40   | 6.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Chlorobenzene                         | 40     | U         | 40   | 6.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Chloroethane                          | 200    | U         | 200  | 61  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Chloroform                            | 40     | U         | 40   | 8.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Chloromethane                         | 200    | U         | 200  | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,1-Dichloroethane                    | 40     | U         | 40   | 17  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,2-Dichloroethane                    | 40     | U         | 40   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,1-Dichloroethene                    | 40     | U         | 40   | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,2-Dichloropropane                   | 40     | U         | 40   | 8.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,2,4-Trimethylbenzene                | 80     | U         | 80   | 5.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| cis-1,3-Dichloropropene               | 40     | U         | 40   | 7.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| trans-1,3-Dichloropropene             | 40     | U         | 40   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Ethylbenzene                          | 40     | U         | 40   | 5.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 2-Hexanone                            | 2000   | U         | 2000 | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Methylene Chloride                    | 200    | U         | 200  | 77  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2000   | U         | 2000 | 48  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Styrene                               | 40     | U         | 40   | 5.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,1,2,2-Tetrachloroethane             | 40     | U         | 40   | 8.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Tetrachloroethene                     | 40     | U         | 40   | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Toluene                               | 80     | U         | 80   | 17  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Trichloroethene                       | 40     | U         | 40   | 9.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,3,5-Trimethylbenzene                | 80     | U         | 80   | 5.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Vinyl chloride                        | 32     | U         | 32   | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Xylenes, Total                        | 120    | U         | 120  | 8.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,1,1-Trichloroethane                 | 43     |           | 40   | 21  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,1,2-Trichloroethane                 | 40     | U         | 40   | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Cyclohexane                           | 960    | U         | 960  | 40  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 200    | U         | 200  | 50  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,2-Dibromoethane                     | 200    | U         | 200  | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Dichlorodifluoromethane               | 80     | U         | 80   | 16  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| cis-1,2-Dichloroethene                | 40     | U         | 40   | 6.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| trans-1,2-Dichloroethene              | 40     | U         | 40   | 9.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Isopropylbenzene                      | 200    | U         | 200  | 6.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Methyl acetate                        | 960    | U         | 960  | 25  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Methyl tert-butyl ether               | 200    | U         | 200  | 7.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 200    | U         | 200  | 39  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,2,4-Trichlorobenzene                | 200    | U         | 200  | 7.3 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,2-Dichlorobenzene                   | 80     | U         | 80   | 8.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,3-Dichlorobenzene                   | 80     | U         | 80   | 4.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 1,4-Dichlorobenzene                   | 80     | U         | 80   | 8.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Trichlorofluoromethane                | 80     | U         | 80   | 16  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Dibromochloromethane                  | 40     | U         | 40   | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Methylcyclohexane                     | 960    | U         | 960  | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 2-Methylnaphthalene                   | 94     | J         | 250  | 17  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-007097-10212-MC-030

Lab Sample ID: 240-15886-5

Date Collected: 10/02/12 10:10

Matrix: Solid

Date Received: 10/03/12 09:30

Percent Solids: 93.4

| Analyte     | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | 42     | J         | 250 | 6.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:02 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 91        |           | 39 - 128 | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| 4-Bromofluorobenzene (Surr)  | 85        |           | 26 - 141 | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Toluene-d8 (Surr)            | 84        |           | 33 - 134 | 10/05/12 21:12 | 10/09/12 21:02 | 1       |
| Dibromofluoromethane (Surr)  | 83        |           | 30 - 122 | 10/05/12 21:12 | 10/09/12 21:02 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-007097-10212-MC-031

Date Collected: 10/02/12 10:30

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-6

Matrix: Solid

Percent Solids: 86.3

| Analyte                               | Result     | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|------------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 690        | U         | 690  | 200 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Benzene                               | 46         | U         | 46   | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Bromodichloromethane                  | 93         | U         | 93   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Bromoform                             | 93         | U         | 93   | 22  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Bromomethane                          | 230        | U         | 230  | 34  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 2-Butanone (MEK)                      | 690        | U         | 690  | 50  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Carbon disulfide                      | 230        | U         | 230  | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Carbon tetrachloride                  | 46         | U         | 46   | 7.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Chlorobenzene                         | 46         | U         | 46   | 7.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Chloroethane                          | 230        | U         | 230  | 71  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Chloroform                            | 46         | U         | 46   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Chloromethane                         | 230        | U         | 230  | 16  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,1-Dichloroethane                    | 46         | U         | 46   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,2-Dichloroethane                    | 46         | U         | 46   | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,1-Dichloroethene                    | 46         | U         | 46   | 21  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,2-Dichloropropane                   | 46         | U         | 46   | 9.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,2,4-Trimethylbenzene                | 93         | U         | 93   | 5.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| cis-1,3-Dichloropropene               | 46         | U         | 46   | 9.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| trans-1,3-Dichloropropene             | 46         | U         | 46   | 23  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Ethylbenzene                          | 46         | U         | 46   | 6.3 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 2-Hexanone                            | 2300       | U         | 2300 | 23  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Methylene Chloride                    | 230        | U         | 230  | 89  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2300       | U         | 2300 | 56  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Styrene                               | 46         | U         | 46   | 6.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,1,2,2-Tetrachloroethane             | 46         | U         | 46   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| <b>Tetrachloroethene</b>              | <b>35</b>  | <b>J</b>  | 46   | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Toluene                               | 93         | U         | 93   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| <b>Trichloroethene</b>                | <b>420</b> |           | 46   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,3,5-Trimethylbenzene                | 93         | U         | 93   | 6.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Vinyl chloride                        | 37         | U         | 37   | 21  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Xylenes, Total                        | 140        | U         | 140  | 9.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| <b>1,1,1-Trichloroethane</b>          | <b>500</b> |           | 46   | 24  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,1,2-Trichloroethane                 | 46         | U         | 46   | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Cyclohexane                           | 1100       | U         | 1100 | 46  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 230        | U         | 230  | 58  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,2-Dibromoethane                     | 230        | U         | 230  | 12  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Dichlorodifluoromethane               | 93         | U         | 93   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| cis-1,2-Dichloroethene                | 46         | U         | 46   | 8.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| trans-1,2-Dichloroethene              | 46         | U         | 46   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Isopropylbenzene                      | 230        | U         | 230  | 7.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Methyl acetate                        | 1100       | U         | 1100 | 29  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Methyl tert-butyl ether               | 230        | U         | 230  | 8.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 230        | U         | 230  | 45  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,2,4-Trichlorobenzene                | 230        | U         | 230  | 8.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,2-Dichlorobenzene                   | 93         | U         | 93   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,3-Dichlorobenzene                   | 93         | U         | 93   | 5.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 1,4-Dichlorobenzene                   | 93         | U         | 93   | 9.3 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Trichlorofluoromethane                | 93         | U         | 93   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Dibromochloromethane                  | 46         | U         | 46   | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Methylcyclohexane                     | 1100       | U         | 1100 | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 2-Methylnaphthalene                   | 290        | U         | 290  | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-007097-10212-MC-031

Date Collected: 10/02/12 10:30

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-6

Matrix: Solid

Percent Solids: 86.3

| Analyte     | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | 290    | U         | 290 | 7.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:26 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 80        |           | 39 - 128 | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| 4-Bromofluorobenzene (Surr)  | 73        |           | 26 - 141 | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Toluene-d8 (Surr)            | 74        |           | 33 - 134 | 10/05/12 21:12 | 10/09/12 21:26 | 1       |
| Dibromofluoromethane (Surr)  | 74        |           | 30 - 122 | 10/05/12 21:12 | 10/09/12 21:26 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-007097-10212-MC-032

Date Collected: 10/02/12 11:30

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-7

Matrix: Solid

Percent Solids: 91.1

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 660    | U         | 660  | 190 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Benzene                               | 44     | U         | 44   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Bromodichloromethane                  | 88     | U         | 88   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Bromoform                             | 88     | U         | 88   | 21  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Bromomethane                          | 220    | U         | 220  | 32  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 2-Butanone (MEK)                      | 660    | U         | 660  | 47  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Carbon disulfide                      | 220    | U         | 220  | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Carbon tetrachloride                  | 44     | U         | 44   | 7.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Chlorobenzene                         | 44     | U         | 44   | 7.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Chloroethane                          | 220    | U         | 220  | 67  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Chloroform                            | 44     | U         | 44   | 9.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Chloromethane                         | 220    | U         | 220  | 15  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,1-Dichloroethane                    | 44     | U         | 44   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,2-Dichloroethane                    | 44     | U         | 44   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,1-Dichloroethene                    | 44     | U         | 44   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,2-Dichloropropane                   | 44     | U         | 44   | 9.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,2,4-Trimethylbenzene                | 88     | U         | 88   | 5.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| cis-1,3-Dichloropropene               | 44     | U         | 44   | 8.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| trans-1,3-Dichloropropene             | 44     | U         | 44   | 22  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Ethylbenzene                          | 44     | U         | 44   | 5.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 2-Hexanone                            | 2200   | U         | 2200 | 22  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Methylene Chloride                    | 220    | U         | 220  | 85  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2200   | U         | 2200 | 53  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Styrene                               | 44     | U         | 44   | 6.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,1,2,2-Tetrachloroethane             | 44     | U         | 44   | 9.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Tetrachloroethene                     | 44     | U         | 44   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Toluene                               | 88     | U         | 88   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Trichloroethene                       | 44     | U         | 44   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,3,5-Trimethylbenzene                | 88     | U         | 88   | 6.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Vinyl chloride                        | 35     | U         | 35   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Xylenes, Total                        | 130    | U         | 130  | 8.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,1,1-Trichloroethane                 | 44     | U         | 44   | 23  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,1,2-Trichloroethane                 | 44     | U         | 44   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Cyclohexane                           | 1100   | U         | 1100 | 44  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 220    | U         | 220  | 55  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,2-Dibromoethane                     | 220    | U         | 220  | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Dichlorodifluoromethane               | 88     | U         | 88   | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| cis-1,2-Dichloroethene                | 44     | U         | 44   | 7.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| trans-1,2-Dichloroethene              | 44     | U         | 44   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Isopropylbenzene                      | 220    | U         | 220  | 7.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Methyl acetate                        | 1100   | U         | 1100 | 28  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Methyl tert-butyl ether               | 220    | U         | 220  | 7.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 220    | U         | 220  | 43  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,2,4-Trichlorobenzene                | 220    | U         | 220  | 8.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,2-Dichlorobenzene                   | 88     | U         | 88   | 9.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,3-Dichlorobenzene                   | 88     | U         | 88   | 5.3 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 1,4-Dichlorobenzene                   | 88     | U         | 88   | 8.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Trichlorofluoromethane                | 88     | U         | 88   | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Dibromochloromethane                  | 44     | U         | 44   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Methylcyclohexane                     | 1100   | U         | 1100 | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 2-Methylnaphthalene                   | 280    | U         | 280  | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-007097-10212-MC-032

Date Collected: 10/02/12 11:30

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-7

Matrix: Solid

Percent Solids: 91.1

| Analyte     | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | 280    | U         | 280 | 7.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 21:49 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 79        |           | 39 - 128 | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| 4-Bromofluorobenzene (Surr)  | 67        |           | 26 - 141 | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Toluene-d8 (Surr)            | 72        |           | 33 - 134 | 10/05/12 21:12 | 10/09/12 21:49 | 1       |
| Dibromofluoromethane (Surr)  | 72        |           | 30 - 122 | 10/05/12 21:12 | 10/09/12 21:49 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-007097-10212-MC-033

Date Collected: 10/02/12 12:00

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-8

Matrix: Solid

Percent Solids: 85.5

| Analyte                               | Result     | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|------------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 640        | U         | 640  | 180 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Benzene                               | 43         | U         | 43   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Bromodichloromethane                  | 86         | U         | 86   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Bromoform                             | 86         | U         | 86   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Bromomethane                          | 210        | U         | 210  | 31  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 2-Butanone (MEK)                      | 640        | U         | 640  | 46  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Carbon disulfide                      | 210        | U         | 210  | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Carbon tetrachloride                  | 43         | U         | 43   | 6.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Chlorobenzene                         | 43         | U         | 43   | 6.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Chloroethane                          | 210        | U         | 210  | 65  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Chloroform                            | 43         | U         | 43   | 9.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Chloromethane                         | 210        | U         | 210  | 15  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,1-Dichloroethane                    | 43         | U         | 43   | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,2-Dichloroethane                    | 43         | U         | 43   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,1-Dichloroethene                    | 43         | U         | 43   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,2-Dichloropropane                   | 43         | U         | 43   | 8.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,2,4-Trimethylbenzene                | 86         | U         | 86   | 5.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| cis-1,3-Dichloropropene               | 43         | U         | 43   | 8.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| trans-1,3-Dichloropropene             | 43         | U         | 43   | 21  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Ethylbenzene                          | 43         | U         | 43   | 5.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 2-Hexanone                            | 2100       | U         | 2100 | 21  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Methylene Chloride                    | 210        | U         | 210  | 83  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2100       | U         | 2100 | 51  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Styrene                               | 43         | U         | 43   | 6.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,1,2,2-Tetrachloroethane             | 43         | U         | 43   | 9.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| <b>Tetrachloroethene</b>              | <b>950</b> |           | 43   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Toluene                               | 86         | U         | 86   | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| <b>Trichloroethene</b>                | <b>130</b> |           | 43   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,3,5-Trimethylbenzene                | 86         | U         | 86   | 6.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Vinyl chloride                        | 34         | U         | 34   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Xylenes, Total                        | 130        | U         | 130  | 8.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| <b>1,1,1-Trichloroethane</b>          | <b>43</b>  |           | 43   | 23  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,1,2-Trichloroethane                 | 43         | U         | 43   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Cyclohexane                           | 1000       | U         | 1000 | 43  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 210        | U         | 210  | 54  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,2-Dibromoethane                     | 210        | U         | 210  | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Dichlorodifluoromethane               | 86         | U         | 86   | 17  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| cis-1,2-Dichloroethene                | 43         | U         | 43   | 7.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| trans-1,2-Dichloroethene              | 43         | U         | 43   | 9.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Isopropylbenzene                      | 210        | U         | 210  | 7.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Methyl acetate                        | 1000       | U         | 1000 | 27  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Methyl tert-butyl ether               | 210        | U         | 210  | 7.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 210        | U         | 210  | 42  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,2,4-Trichlorobenzene                | 210        | U         | 210  | 7.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,2-Dichlorobenzene                   | 86         | U         | 86   | 9.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,3-Dichlorobenzene                   | 86         | U         | 86   | 5.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 1,4-Dichlorobenzene                   | 86         | U         | 86   | 8.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Trichlorofluoromethane                | 86         | U         | 86   | 17  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Dibromochloromethane                  | 43         | U         | 43   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Methylcyclohexane                     | 1000       | U         | 1000 | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 2-Methylnaphthalene                   | 270        | U         | 270  | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-007097-10212-MC-033

Date Collected: 10/02/12 12:00

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-8

Matrix: Solid

Percent Solids: 85.5

| Analyte     | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | 270    | U         | 270 | 7.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:13 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 83        |           | 39 - 128 | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| 4-Bromofluorobenzene (Surr)  | 76        |           | 26 - 141 | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Toluene-d8 (Surr)            | 76        |           | 33 - 134 | 10/05/12 21:12 | 10/09/12 22:13 | 1       |
| Dibromofluoromethane (Surr)  | 74        |           | 30 - 122 | 10/05/12 21:12 | 10/09/12 22:13 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-007097-10212-MC-034

Date Collected: 10/02/12 12:10

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-9

Matrix: Solid

Percent Solids: 88.1

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 680    | U         | 680  | 190 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Benzene                               | 45     | U         | 45   | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Bromodichloromethane                  | 90     | U         | 90   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Bromoform                             | 90     | U         | 90   | 21  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Bromomethane                          | 230    | U         | 230  | 33  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 2-Butanone (MEK)                      | 680    | U         | 680  | 49  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Carbon disulfide                      | 230    | U         | 230  | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Carbon tetrachloride                  | 45     | U         | 45   | 7.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Chlorobenzene                         | 45     | U         | 45   | 7.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Chloroethane                          | 230    | U         | 230  | 69  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Chloroform                            | 45     | U         | 45   | 9.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Chloromethane                         | 230    | U         | 230  | 16  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,1-Dichloroethane                    | 45     | U         | 45   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,2-Dichloroethane                    | 45     | U         | 45   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,1-Dichloroethene                    | 45     | U         | 45   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,2-Dichloropropane                   | 45     | U         | 45   | 9.3 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,2,4-Trimethylbenzene                | 18     | J         | 90   | 5.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| cis-1,3-Dichloropropene               | 45     | U         | 45   | 8.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| trans-1,3-Dichloropropene             | 45     | U         | 45   | 23  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Ethylbenzene                          | 45     | U         | 45   | 6.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 2-Hexanone                            | 2300   | U         | 2300 | 23  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Methylene Chloride                    | 230    | U         | 230  | 87  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2300   | U         | 2300 | 54  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Styrene                               | 45     | U         | 45   | 6.3 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,1,2,2-Tetrachloroethane             | 45     | U         | 45   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Tetrachloroethene                     | 45     | U         | 45   | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Toluene                               | 90     | U         | 90   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Trichloroethene                       | 45     | U         | 45   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,3,5-Trimethylbenzene                | 90     | U         | 90   | 6.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Vinyl chloride                        | 36     | U         | 36   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Xylenes, Total                        | 140    | U         | 140  | 9.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,1,1-Trichloroethane                 | 45     | U         | 45   | 24  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,1,2-Trichloroethane                 | 45     | U         | 45   | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Cyclohexane                           | 1100   | U         | 1100 | 45  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 230    | U         | 230  | 56  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,2-Dibromoethane                     | 230    | U         | 230  | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Dichlorodifluoromethane               | 90     | U         | 90   | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| cis-1,2-Dichloroethene                | 45     | U         | 45   | 7.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| trans-1,2-Dichloroethene              | 45     | U         | 45   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Isopropylbenzene                      | 230    | U         | 230  | 7.3 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Methyl acetate                        | 1100   | U         | 1100 | 28  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Methyl tert-butyl ether               | 230    | U         | 230  | 8.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 230    | U         | 230  | 44  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,2,4-Trichlorobenzene                | 230    | U         | 230  | 8.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,2-Dichlorobenzene                   | 90     | U         | 90   | 9.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,3-Dichlorobenzene                   | 90     | U         | 90   | 5.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 1,4-Dichlorobenzene                   | 90     | U         | 90   | 9.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Trichlorofluoromethane                | 90     | U         | 90   | 18  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Dibromochloromethane                  | 45     | U         | 45   | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Methylcyclohexane                     | 85     | J         | 1100 | 14  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 2-Methylnaphthalene                   | 280    | U         | 280  | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-007097-10212-MC-034

Date Collected: 10/02/12 12:10

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-9

Matrix: Solid

Percent Solids: 88.1

| Analyte     | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | 280    | U         | 280 | 7.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 22:37 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 81        |           | 39 - 128 | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| 4-Bromofluorobenzene (Surr)  | 67        |           | 26 - 141 | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Toluene-d8 (Surr)            | 72        |           | 33 - 134 | 10/05/12 21:12 | 10/09/12 22:37 | 1       |
| Dibromofluoromethane (Surr)  | 74        |           | 30 - 122 | 10/05/12 21:12 | 10/09/12 22:37 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-007097-10212-MC-035

Date Collected: 10/02/12 12:30

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-10

Matrix: Solid

Percent Solids: 91.7

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 650    | U         | 650  | 190 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Benzene                               | 44     | U         | 44   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Bromodichloromethane                  | 87     | U         | 87   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Bromoform                             | 87     | U         | 87   | 21  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Bromomethane                          | 220    | U         | 220  | 32  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 2-Butanone (MEK)                      | 650    | U         | 650  | 47  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Carbon disulfide                      | 220    | U         | 220  | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Carbon tetrachloride                  | 44     | U         | 44   | 7.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Chlorobenzene                         | 44     | U         | 44   | 7.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Chloroethane                          | 220    | U         | 220  | 67  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Chloroform                            | 44     | U         | 44   | 9.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Chloromethane                         | 220    | U         | 220  | 15  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,1-Dichloroethane                    | 44     | U         | 44   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,2-Dichloroethane                    | 44     | U         | 44   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,1-Dichloroethene                    | 44     | U         | 44   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,2-Dichloropropane                   | 44     | U         | 44   | 9.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,2,4-Trimethylbenzene                | 87     | U         | 87   | 5.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| cis-1,3-Dichloropropene               | 44     | U         | 44   | 8.6 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| trans-1,3-Dichloropropene             | 44     | U         | 44   | 22  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Ethylbenzene                          | 44     | U         | 44   | 5.9 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 2-Hexanone                            | 2200   | U         | 2200 | 22  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Methylene Chloride                    | 220    | U         | 220  | 84  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2200   | U         | 2200 | 52  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Styrene                               | 44     | U         | 44   | 6.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,1,2,2-Tetrachloroethane             | 44     | U         | 44   | 9.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Tetrachloroethene                     | 44     | U         | 44   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Toluene                               | 87     | U         | 87   | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Trichloroethene                       | 44     | U         | 44   | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,3,5-Trimethylbenzene                | 87     | U         | 87   | 6.3 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Vinyl chloride                        | 35     | U         | 35   | 20  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Xylenes, Total                        | 130    | U         | 130  | 8.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,1,1-Trichloroethane                 | 44     | U         | 44   | 23  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,1,2-Trichloroethane                 | 44     | U         | 44   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Cyclohexane                           | 1000   | U         | 1000 | 44  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 220    | U         | 220  | 55  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,2-Dibromoethane                     | 220    | U         | 220  | 11  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Dichlorodifluoromethane               | 87     | U         | 87   | 17  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| cis-1,2-Dichloroethene                | 44     | U         | 44   | 7.5 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| trans-1,2-Dichloroethene              | 44     | U         | 44   | 10  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Isopropylbenzene                      | 220    | U         | 220  | 7.1 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Methyl acetate                        | 1000   | U         | 1000 | 27  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Methyl tert-butyl ether               | 220    | U         | 220  | 7.8 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 220    | U         | 220  | 43  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,2,4-Trichlorobenzene                | 220    | U         | 220  | 8.0 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,2-Dichlorobenzene                   | 87     | U         | 87   | 9.4 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,3-Dichlorobenzene                   | 87     | U         | 87   | 5.2 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 1,4-Dichlorobenzene                   | 87     | U         | 87   | 8.7 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Trichlorofluoromethane                | 87     | U         | 87   | 17  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Dibromochloromethane                  | 44     | U         | 44   | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Methylcyclohexane                     | 1000   | U         | 1000 | 13  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 2-Methylnaphthalene                   | 270    | U         | 270  | 19  | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-007097-10212-MC-035

Lab Sample ID: 240-15886-10

Date Collected: 10/02/12 12:30

Matrix: Solid

Date Received: 10/03/12 09:30

Percent Solids: 91.7

| Analyte     | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | 270    | U         | 270 | 7.3 | ug/Kg | ☼ | 10/05/12 21:12 | 10/09/12 23:01 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 80        |           | 39 - 128 | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| 4-Bromofluorobenzene (Surr)  | 71        |           | 26 - 141 | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Toluene-d8 (Surr)            | 73        |           | 33 - 134 | 10/05/12 21:12 | 10/09/12 23:01 | 1       |
| Dibromofluoromethane (Surr)  | 70        |           | 30 - 122 | 10/05/12 21:12 | 10/09/12 23:01 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-007097-10212-MC-036

Date Collected: 10/02/12 12:40

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-11

Matrix: Solid

Percent Solids: 88.2

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 680    | U         | 680  | 190 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Benzene                               | 45     | U         | 45   | 14  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Bromodichloromethane                  | 91     | U         | 91   | 11  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Bromoform                             | 91     | U         | 91   | 22  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Bromomethane                          | 230    | U *       | 230  | 33  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 2-Butanone (MEK)                      | 680    | U         | 680  | 49  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Carbon disulfide                      | 230    | U         | 230  | 14  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Carbon tetrachloride                  | 45     | U         | 45   | 7.3 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Chlorobenzene                         | 45     | U         | 45   | 7.3 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Chloroethane                          | 230    | U         | 230  | 69  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Chloroform                            | 45     | U         | 45   | 10  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Chloromethane                         | 230    | U         | 230  | 16  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,1-Dichloroethane                    | 45     | U         | 45   | 19  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,2-Dichloroethane                    | 45     | U         | 45   | 11  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,1-Dichloroethene                    | 45     | U         | 45   | 20  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,2-Dichloropropane                   | 45     | U         | 45   | 9.3 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,2,4-Trimethylbenzene                | 71     | J         | 91   | 5.7 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| cis-1,3-Dichloropropene               | 45     | U         | 45   | 9.0 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| trans-1,3-Dichloropropene             | 45     | U         | 45   | 23  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Ethylbenzene                          | 45     | U         | 45   | 6.1 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 2-Hexanone                            | 2300   | U         | 2300 | 23  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Methylene Chloride                    | 230    | U         | 230  | 88  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2300   | U         | 2300 | 55  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Styrene                               | 45     | U         | 45   | 6.4 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,1,2,2-Tetrachloroethane             | 45     | U         | 45   | 10  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Tetrachloroethene                     | 45     | U         | 45   | 14  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Toluene                               | 91     | U         | 91   | 19  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Trichloroethene                       | 45     | U         | 45   | 11  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,3,5-Trimethylbenzene                | 21     | J         | 91   | 6.6 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Vinyl chloride                        | 120    |           | 36   | 20  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Xylenes, Total                        | 140    | U         | 140  | 9.2 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,1,1-Trichloroethane                 | 45     | U         | 45   | 24  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,1,2-Trichloroethane                 | 45     | U         | 45   | 14  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Cyclohexane                           | 1100   | U         | 1100 | 45  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 230    | U         | 230  | 57  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,2-Dibromoethane                     | 230    | U         | 230  | 11  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Dichlorodifluoromethane               | 91     | U         | 91   | 18  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| cis-1,2-Dichloroethene                | 45     | U         | 45   | 7.8 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| trans-1,2-Dichloroethene              | 45     | U         | 45   | 10  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Isopropylbenzene                      | 230    | U         | 230  | 7.4 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Methyl acetate                        | 1100   | U         | 1100 | 28  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Methyl tert-butyl ether               | 230    | U         | 230  | 8.1 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 230    | U         | 230  | 44  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,2,4-Trichlorobenzene                | 230    | U         | 230  | 8.3 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,2-Dichlorobenzene                   | 91     | U         | 91   | 9.8 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,3-Dichlorobenzene                   | 91     | U         | 91   | 5.5 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 1,4-Dichlorobenzene                   | 91     | U         | 91   | 9.1 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Trichlorofluoromethane                | 91     | U         | 91   | 18  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Dibromochloromethane                  | 45     | U         | 45   | 14  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Methylcyclohexane                     | 1100   | U         | 1100 | 14  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 2-Methylnaphthalene                   | 83     | J         | 280  | 19  | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-007097-10212-MC-036

Lab Sample ID: 240-15886-11

Date Collected: 10/02/12 12:40

Matrix: Solid

Date Received: 10/03/12 09:30

Percent Solids: 88.2

| Analyte     | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | 11     | J         | 280 | 7.6 | ug/Kg | ☼ | 10/10/12 02:38 | 10/10/12 20:23 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 39 - 128 | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| 4-Bromofluorobenzene (Surr)  | 88        |           | 26 - 141 | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Toluene-d8 (Surr)            | 88        |           | 33 - 134 | 10/10/12 02:38 | 10/10/12 20:23 | 1       |
| Dibromofluoromethane (Surr)  | 88        |           | 30 - 122 | 10/10/12 02:38 | 10/10/12 20:23 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-007097-10212-MC-037

Date Collected: 10/02/12 00:00

Date Received: 10/03/12 09:30

Lab Sample ID: 240-15886-12

Matrix: Solid

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 600    | U         | 600  | 170 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Benzene                               | 40     | U         | 40   | 12  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Bromodichloromethane                  | 80     | U         | 80   | 9.9 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Bromoform                             | 80     | U         | 80   | 19  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Bromomethane                          | 200    | U *       | 200  | 29  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 2-Butanone (MEK)                      | 600    | U         | 600  | 43  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Carbon disulfide                      | 200    | U         | 200  | 12  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Carbon tetrachloride                  | 40     | U         | 40   | 6.4 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Chlorobenzene                         | 40     | U         | 40   | 6.4 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Chloroethane                          | 200    | U         | 200  | 61  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Chloroform                            | 40     | U         | 40   | 8.8 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Chloromethane                         | 200    | U         | 200  | 14  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,1-Dichloroethane                    | 40     | U         | 40   | 17  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,2-Dichloroethane                    | 40     | U         | 40   | 10  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,1-Dichloroethene                    | 40     | U         | 40   | 18  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,2-Dichloropropane                   | 40     | U         | 40   | 8.2 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,2,4-Trimethylbenzene                | 8.4    | J         | 80   | 5.0 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| cis-1,3-Dichloropropene               | 40     | U         | 40   | 7.9 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| trans-1,3-Dichloropropene             | 40     | U         | 40   | 20  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Ethylbenzene                          | 40     | U         | 40   | 5.4 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 2-Hexanone                            | 2000   | U         | 2000 | 20  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Methylene Chloride                    | 200    | U         | 200  | 77  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2000   | U         | 2000 | 48  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Styrene                               | 40     | U         | 40   | 5.6 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,1,2,2-Tetrachloroethane             | 40     | U         | 40   | 8.9 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Tetrachloroethene                     | 40     | U         | 40   | 12  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Toluene                               | 80     | U         | 80   | 17  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Trichloroethene                       | 40     | U         | 40   | 9.7 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,3,5-Trimethylbenzene                | 80     | U         | 80   | 5.8 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Vinyl chloride                        | 32     | U         | 32   | 18  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Xylenes, Total                        | 120    | U         | 120  | 8.1 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,1,1-Trichloroethane                 | 40     | U         | 40   | 21  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,1,2-Trichloroethane                 | 40     | U         | 40   | 12  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Cyclohexane                           | 960    | U         | 960  | 40  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 200    | U         | 200  | 50  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,2-Dibromoethane                     | 200    | U         | 200  | 10  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Dichlorodifluoromethane               | 80     | U         | 80   | 16  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| cis-1,2-Dichloroethene                | 40     | U         | 40   | 6.9 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| trans-1,2-Dichloroethene              | 40     | U         | 40   | 9.2 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Isopropylbenzene                      | 200    | U         | 200  | 6.5 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Methyl acetate                        | 960    | U         | 960  | 25  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Methyl tert-butyl ether               | 200    | U         | 200  | 7.1 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 200    | U         | 200  | 39  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,2,4-Trichlorobenzene                | 200    | U         | 200  | 7.3 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,2-Dichlorobenzene                   | 80     | U         | 80   | 8.6 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,3-Dichlorobenzene                   | 80     | U         | 80   | 4.8 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 1,4-Dichlorobenzene                   | 80     | U         | 80   | 8.0 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Trichlorofluoromethane                | 80     | U         | 80   | 16  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Dibromochloromethane                  | 40     | U         | 40   | 12  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Methylcyclohexane                     | 960    | U         | 960  | 12  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 2-Methylnaphthalene                   | 250    | U         | 250  | 17  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-007097-10212-MC-037

Lab Sample ID: 240-15886-12

Date Collected: 10/02/12 00:00

Matrix: Solid

Date Received: 10/03/12 09:30

| Analyte     | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | 250    | U         | 250 | 6.7 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 20:47 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 109       |           | 39 - 128 | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| 4-Bromofluorobenzene (Surr)  | 98        |           | 26 - 141 | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Toluene-d8 (Surr)            | 99        |           | 33 - 134 | 10/10/12 02:38 | 10/10/12 20:47 | 1       |
| Dibromofluoromethane (Surr)  | 98        |           | 30 - 122 | 10/10/12 02:38 | 10/10/12 20:47 | 1       |

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## GC/MS VOA

### Prep Batch: 60396

| Lab Sample ID     | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|-------------------|-----------------------|-----------|--------|--------|------------|
| 240-15886-1       | S-007097-10212-MC-026 | Total/NA  | Solid  | 5035   |            |
| 240-15886-2       | S-007097-10212-MC-027 | Total/NA  | Solid  | 5035   |            |
| 240-15886-3       | S-007097-10212-MC-028 | Total/NA  | Solid  | 5035   |            |
| 240-15886-4       | S-007097-10212-MC-029 | Total/NA  | Solid  | 5035   |            |
| 240-15886-5       | S-007097-10212-MC-030 | Total/NA  | Solid  | 5035   |            |
| 240-15886-6       | S-007097-10212-MC-031 | Total/NA  | Solid  | 5035   |            |
| 240-15886-7       | S-007097-10212-MC-032 | Total/NA  | Solid  | 5035   |            |
| 240-15886-8       | S-007097-10212-MC-033 | Total/NA  | Solid  | 5035   |            |
| 240-15886-9       | S-007097-10212-MC-034 | Total/NA  | Solid  | 5035   |            |
| 240-15886-10      | S-007097-10212-MC-035 | Total/NA  | Solid  | 5035   |            |
| LCS 240-60396/2-A | Lab Control Sample    | Total/NA  | Solid  | 5035   |            |
| MB 240-60396/1-A  | Method Blank          | Total/NA  | Solid  | 5035   |            |

### Analysis Batch: 60558

| Lab Sample ID     | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|-------------------|-----------------------|-----------|--------|--------|------------|
| 240-15886-1       | S-007097-10212-MC-026 | Total/NA  | Solid  | 8260B  | 60396      |
| 240-15886-2       | S-007097-10212-MC-027 | Total/NA  | Solid  | 8260B  | 60396      |
| 240-15886-3       | S-007097-10212-MC-028 | Total/NA  | Solid  | 8260B  | 60396      |
| 240-15886-4       | S-007097-10212-MC-029 | Total/NA  | Solid  | 8260B  | 60396      |
| LCS 240-60396/2-A | Lab Control Sample    | Total/NA  | Solid  | 8260B  | 60396      |
| MB 240-60396/1-A  | Method Blank          | Total/NA  | Solid  | 8260B  | 60396      |

### Analysis Batch: 60712

| Lab Sample ID | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|---------------|-----------------------|-----------|--------|--------|------------|
| 240-15886-5   | S-007097-10212-MC-030 | Total/NA  | Solid  | 8260B  | 60396      |
| 240-15886-6   | S-007097-10212-MC-031 | Total/NA  | Solid  | 8260B  | 60396      |
| 240-15886-7   | S-007097-10212-MC-032 | Total/NA  | Solid  | 8260B  | 60396      |
| 240-15886-8   | S-007097-10212-MC-033 | Total/NA  | Solid  | 8260B  | 60396      |
| 240-15886-9   | S-007097-10212-MC-034 | Total/NA  | Solid  | 8260B  | 60396      |
| 240-15886-10  | S-007097-10212-MC-035 | Total/NA  | Solid  | 8260B  | 60396      |

### Prep Batch: 60727

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 240-15886-11      | S-007097-10212-MC-036  | Total/NA  | Solid  | 5035   |            |
| 240-15886-12      | TB-007097-10212-MC-037 | Total/NA  | Solid  | 5035   |            |
| LCS 240-60727/2-A | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| MB 240-60727/1-A  | Method Blank           | Total/NA  | Solid  | 5035   |            |

### Analysis Batch: 60878

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 240-15886-11      | S-007097-10212-MC-036  | Total/NA  | Solid  | 8260B  | 60727      |
| 240-15886-12      | TB-007097-10212-MC-037 | Total/NA  | Solid  | 8260B  | 60727      |
| LCS 240-60727/2-A | Lab Control Sample     | Total/NA  | Solid  | 8260B  | 60727      |
| MB 240-60727/1-A  | Method Blank           | Total/NA  | Solid  | 8260B  | 60727      |

## General Chemistry

### Analysis Batch: 60348

| Lab Sample ID | Client Sample ID      | Prep Type | Matrix | Method   | Prep Batch |
|---------------|-----------------------|-----------|--------|----------|------------|
| 240-15886-1   | S-007097-10212-MC-026 | Total/NA  | Solid  | Moisture |            |
| 240-15886-2   | S-007097-10212-MC-027 | Total/NA  | Solid  | Moisture |            |
| 240-15886-3   | S-007097-10212-MC-028 | Total/NA  | Solid  | Moisture |            |

## QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

### General Chemistry (Continued)

#### Analysis Batch: 60348 (Continued)

| Lab Sample ID  | Client Sample ID      | Prep Type | Matrix | Method   | Prep Batch |
|----------------|-----------------------|-----------|--------|----------|------------|
| 240-15886-4    | S-007097-10212-MC-029 | Total/NA  | Solid  | Moisture |            |
| 240-15886-5    | S-007097-10212-MC-030 | Total/NA  | Solid  | Moisture |            |
| 240-15886-6    | S-007097-10212-MC-031 | Total/NA  | Solid  | Moisture |            |
| 240-15886-6 DU | S-007097-10212-MC-031 | Total/NA  | Solid  | Moisture |            |
| 240-15886-7    | S-007097-10212-MC-032 | Total/NA  | Solid  | Moisture |            |
| 240-15886-8    | S-007097-10212-MC-033 | Total/NA  | Solid  | Moisture |            |
| 240-15886-9    | S-007097-10212-MC-034 | Total/NA  | Solid  | Moisture |            |
| 240-15886-10   | S-007097-10212-MC-035 | Total/NA  | Solid  | Moisture |            |
| 240-15886-11   | S-007097-10212-MC-036 | Total/NA  | Solid  | Moisture |            |

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-60396/1-A

Matrix: Solid

Analysis Batch: 60558

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60396

| Analyte                               | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 600       | U            | 600  | 170 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Benzene                               | 40        | U            | 40   | 12  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Bromodichloromethane                  | 80        | U            | 80   | 9.9 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Bromoform                             | 80        | U            | 80   | 19  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Bromomethane                          | 200       | U            | 200  | 29  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 2-Butanone (MEK)                      | 600       | U            | 600  | 43  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Carbon disulfide                      | 200       | U            | 200  | 12  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Carbon tetrachloride                  | 40        | U            | 40   | 6.4 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Chlorobenzene                         | 40        | U            | 40   | 6.4 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Chloroethane                          | 200       | U            | 200  | 61  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Chloroform                            | 40        | U            | 40   | 8.8 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Chloromethane                         | 200       | U            | 200  | 14  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,1-Dichloroethane                    | 40        | U            | 40   | 17  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,2-Dichloroethane                    | 40        | U            | 40   | 10  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,1-Dichloroethene                    | 40        | U            | 40   | 18  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,2-Dichloropropane                   | 40        | U            | 40   | 8.2 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,2,4-Trimethylbenzene                | 80        | U            | 80   | 5.0 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| cis-1,3-Dichloropropene               | 40        | U            | 40   | 7.9 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| trans-1,3-Dichloropropene             | 40        | U            | 40   | 20  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Ethylbenzene                          | 40        | U            | 40   | 5.4 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 2-Hexanone                            | 2000      | U            | 2000 | 20  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Methylene Chloride                    | 200       | U            | 200  | 77  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2000      | U            | 2000 | 48  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Styrene                               | 40        | U            | 40   | 5.6 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,1,2,2-Tetrachloroethane             | 40        | U            | 40   | 8.9 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Tetrachloroethene                     | 40        | U            | 40   | 12  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Toluene                               | 80        | U            | 80   | 17  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Trichloroethene                       | 40        | U            | 40   | 9.7 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,3,5-Trimethylbenzene                | 80        | U            | 80   | 5.8 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Vinyl chloride                        | 32        | U            | 32   | 18  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Xylenes, Total                        | 120       | U            | 120  | 8.1 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,1,1-Trichloroethane                 | 40        | U            | 40   | 21  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,1,2-Trichloroethane                 | 40        | U            | 40   | 12  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Cyclohexane                           | 960       | U            | 960  | 40  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 200       | U            | 200  | 50  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,2-Dibromoethane                     | 200       | U            | 200  | 10  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Dichlorodifluoromethane               | 80        | U            | 80   | 16  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| cis-1,2-Dichloroethene                | 40        | U            | 40   | 6.9 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| trans-1,2-Dichloroethene              | 40        | U            | 40   | 9.2 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Isopropylbenzene                      | 200       | U            | 200  | 6.5 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Methyl acetate                        | 960       | U            | 960  | 25  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Methyl tert-butyl ether               | 200       | U            | 200  | 7.1 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 200       | U            | 200  | 39  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,2,4-Trichlorobenzene                | 200       | U            | 200  | 7.3 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,2-Dichlorobenzene                   | 80        | U            | 80   | 8.6 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,3-Dichlorobenzene                   | 80        | U            | 80   | 4.8 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 1,4-Dichlorobenzene                   | 80        | U            | 80   | 8.0 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Trichlorofluoromethane                | 80        | U            | 80   | 16  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Dibromochloromethane                  | 40        | U            | 40   | 12  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-60396/1-A

Matrix: Solid

Analysis Batch: 60558

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60396

| Analyte             | MB<br>Result | MB<br>Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|-----|-----|-------|---|----------------|----------------|---------|
| Methylcyclohexane   | 960          | U               | 960 | 12  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 2-Methylnaphthalene | 250          | U               | 250 | 17  | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Naphthalene         | 250          | U               | 250 | 6.7 | ug/Kg |   | 10/05/12 21:12 | 10/08/12 23:26 | 1       |

| Surrogate                    | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 83              |                 | 39 - 128 | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| 4-Bromofluorobenzene (Surr)  | 75              |                 | 26 - 141 | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Toluene-d8 (Surr)            | 75              |                 | 33 - 134 | 10/05/12 21:12 | 10/08/12 23:26 | 1       |
| Dibromofluoromethane (Surr)  | 77              |                 | 30 - 122 | 10/05/12 21:12 | 10/08/12 23:26 | 1       |

Lab Sample ID: LCS 240-60396/2-A

Matrix: Solid

Analysis Batch: 60558

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60396

| Analyte                     | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|-----------------------------|----------------|---------------|------------------|-------|---|------|-----------------|
| Acetone                     | 1000           | 1350          |                  | ug/Kg |   | 135  | 16 - 156        |
| Benzene                     | 500            | 485           |                  | ug/Kg |   | 97   | 70 - 117        |
| Bromodichloromethane        | 500            | 340           |                  | ug/Kg |   | 68   | 28 - 123        |
| Bromoform                   | 500            | 264           |                  | ug/Kg |   | 53   | 10 - 117        |
| Bromomethane                | 500            | 567           |                  | ug/Kg |   | 113  | 10 - 114        |
| 2-Butanone (MEK)            | 1000           | 1130          |                  | ug/Kg |   | 113  | 10 - 199        |
| Carbon disulfide            | 500            | 450           |                  | ug/Kg |   | 90   | 10 - 132        |
| Carbon tetrachloride        | 500            | 278           |                  | ug/Kg |   | 56   | 29 - 118        |
| Chlorobenzene               | 500            | 493           |                  | ug/Kg |   | 99   | 71 - 116        |
| Chloroethane                | 500            | 550           |                  | ug/Kg |   | 110  | 10 - 120        |
| Chloroform                  | 500            | 450           |                  | ug/Kg |   | 90   | 63 - 116        |
| Chloromethane               | 500            | 311           |                  | ug/Kg |   | 62   | 25 - 110        |
| 1,1-Dichloroethane          | 500            | 450           |                  | ug/Kg |   | 90   | 63 - 117        |
| 1,2-Dichloroethane          | 500            | 493           |                  | ug/Kg |   | 99   | 68 - 119        |
| 1,1-Dichloroethene          | 500            | 609           |                  | ug/Kg |   | 122  | 44 - 143        |
| 1,2-Dichloropropane         | 500            | 467           |                  | ug/Kg |   | 93   | 73 - 113        |
| 1,2,4-Trimethylbenzene      | 500            | 481           |                  | ug/Kg |   | 96   | 62 - 133        |
| cis-1,3-Dichloropropene     | 500            | 309           |                  | ug/Kg |   | 62   | 25 - 120        |
| trans-1,3-Dichloropropene   | 500            | 288           |                  | ug/Kg |   | 58   | 22 - 122        |
| Ethylbenzene                | 500            | 484           |                  | ug/Kg |   | 97   | 66 - 119        |
| 2-Hexanone                  | 1000           | 997           | J                | ug/Kg |   | 100  | 43 - 130        |
| Methylene Chloride          | 500            | 541           |                  | ug/Kg |   | 108  | 27 - 172        |
| 4-Methyl-2-pentanone (MIBK) | 1000           | 962           | J                | ug/Kg |   | 96   | 49 - 121        |
| Styrene                     | 500            | 466           |                  | ug/Kg |   | 93   | 60 - 120        |
| 1,1,2,2-Tetrachloroethane   | 500            | 479           |                  | ug/Kg |   | 96   | 54 - 121        |
| Tetrachloroethene           | 500            | 544           |                  | ug/Kg |   | 109  | 58 - 131        |
| Toluene                     | 500            | 487           |                  | ug/Kg |   | 97   | 66 - 123        |
| Trichloroethene             | 500            | 529           |                  | ug/Kg |   | 106  | 59 - 124        |
| 1,3,5-Trimethylbenzene      | 500            | 481           |                  | ug/Kg |   | 96   | 60 - 130        |
| Vinyl chloride              | 500            | 310           |                  | ug/Kg |   | 62   | 33 - 110        |
| Xylenes, Total              | 1500           | 1460          |                  | ug/Kg |   | 97   | 68 - 119        |
| 1,1,1-Trichloroethane       | 500            | 331           |                  | ug/Kg |   | 66   | 38 - 122        |
| 1,1,2-Trichloroethane       | 500            | 512           |                  | ug/Kg |   | 102  | 74 - 114        |
| Cyclohexane                 | 500            | 317           | J                | ug/Kg |   | 63   | 40 - 120        |

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-60396/2-A

Matrix: Solid

Analysis Batch: 60558

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60396

| Analyte                               | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 1,2-Dibromo-3-Chloropropane           | 500         | 206        |               | ug/Kg |   | 41   | 10 - 129     |
| 1,2-Dibromoethane                     | 500         | 365        |               | ug/Kg |   | 73   | 47 - 123     |
| Dichlorodifluoromethane               | 500         | 173        |               | ug/Kg |   | 35   | 10 - 110     |
| cis-1,2-Dichloroethene                | 500         | 461        |               | ug/Kg |   | 92   | 60 - 125     |
| trans-1,2-Dichloroethene              | 500         | 510        |               | ug/Kg |   | 102  | 58 - 121     |
| Isopropylbenzene                      | 500         | 482        |               | ug/Kg |   | 96   | 61 - 123     |
| Methyl acetate                        | 500         | 857        | J             | ug/Kg |   | 171  | 44 - 173     |
| Methyl tert-butyl ether               | 500         | 561        |               | ug/Kg |   | 112  | 34 - 157     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 500         | 546        |               | ug/Kg |   | 109  | 48 - 151     |
| 1,2,4-Trichlorobenzene                | 500         | 457        |               | ug/Kg |   | 91   | 41 - 135     |
| 1,2-Dichlorobenzene                   | 500         | 520        |               | ug/Kg |   | 104  | 68 - 118     |
| 1,3-Dichlorobenzene                   | 500         | 493        |               | ug/Kg |   | 99   | 66 - 121     |
| 1,4-Dichlorobenzene                   | 500         | 491        |               | ug/Kg |   | 98   | 65 - 119     |
| Trichlorofluoromethane                | 500         | 567        |               | ug/Kg |   | 113  | 17 - 145     |
| Dibromochloromethane                  | 500         | 284        |               | ug/Kg |   | 57   | 22 - 113     |
| Methylcyclohexane                     | 500         | 317        | J             | ug/Kg |   | 63   | 41 - 133     |
| Naphthalene                           | 500         | 476        |               | ug/Kg |   | 95   | 37 - 126     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 83            |               | 39 - 128 |
| 4-Bromofluorobenzene (Surr)  | 78            |               | 26 - 141 |
| Toluene-d8 (Surr)            | 75            |               | 33 - 134 |
| Dibromofluoromethane (Surr)  | 76            |               | 30 - 122 |

Lab Sample ID: MB 240-60727/1-A

Matrix: Solid

Analysis Batch: 60878

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60727

| Analyte                   | MB Result | MB Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Acetone                   | 600       | U            | 600 | 170 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Benzene                   | 40        | U            | 40  | 12  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Bromodichloromethane      | 80        | U            | 80  | 9.9 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Bromoform                 | 80        | U            | 80  | 19  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Bromomethane              | 200       | U            | 200 | 29  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 2-Butanone (MEK)          | 600       | U            | 600 | 43  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Carbon disulfide          | 200       | U            | 200 | 12  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Carbon tetrachloride      | 40        | U            | 40  | 6.4 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Chlorobenzene             | 40        | U            | 40  | 6.4 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Chloroethane              | 200       | U            | 200 | 61  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Chloroform                | 40        | U            | 40  | 8.8 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Chloromethane             | 200       | U            | 200 | 14  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,1-Dichloroethane        | 40        | U            | 40  | 17  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,2-Dichloroethane        | 40        | U            | 40  | 10  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,1-Dichloroethene        | 40        | U            | 40  | 18  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,2-Dichloropropane       | 40        | U            | 40  | 8.2 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,2,4-Trimethylbenzene    | 80        | U            | 80  | 5.0 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| cis-1,3-Dichloropropene   | 40        | U            | 40  | 7.9 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| trans-1,3-Dichloropropene | 40        | U            | 40  | 20  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Ethylbenzene              | 40        | U            | 40  | 5.4 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-60727/1-A

Matrix: Solid

Analysis Batch: 60878

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60727

| Analyte                               | MB<br>Result | MB<br>Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------------|-----------------|------|-----|-------|---|----------------|----------------|---------|
| 2-Hexanone                            | 2000         | U               | 2000 | 20  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Methylene Chloride                    | 200          | U               | 200  | 77  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2000         | U               | 2000 | 48  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Styrene                               | 40           | U               | 40   | 5.6 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,1,2,2-Tetrachloroethane             | 40           | U               | 40   | 8.9 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Tetrachloroethene                     | 40           | U               | 40   | 12  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Toluene                               | 80           | U               | 80   | 17  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Trichloroethene                       | 40           | U               | 40   | 9.7 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,3,5-Trimethylbenzene                | 80           | U               | 80   | 5.8 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Vinyl chloride                        | 32           | U               | 32   | 18  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Xylenes, Total                        | 120          | U               | 120  | 8.1 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,1,1-Trichloroethane                 | 40           | U               | 40   | 21  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,1,2-Trichloroethane                 | 40           | U               | 40   | 12  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Cyclohexane                           | 960          | U               | 960  | 40  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 200          | U               | 200  | 50  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,2-Dibromoethane                     | 200          | U               | 200  | 10  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Dichlorodifluoromethane               | 80           | U               | 80   | 16  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| cis-1,2-Dichloroethene                | 40           | U               | 40   | 6.9 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| trans-1,2-Dichloroethene              | 40           | U               | 40   | 9.2 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Isopropylbenzene                      | 200          | U               | 200  | 6.5 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Methyl acetate                        | 960          | U               | 960  | 25  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Methyl tert-butyl ether               | 200          | U               | 200  | 7.1 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 200          | U               | 200  | 39  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,2,4-Trichlorobenzene                | 200          | U               | 200  | 7.3 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,2-Dichlorobenzene                   | 80           | U               | 80   | 8.6 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,3-Dichlorobenzene                   | 80           | U               | 80   | 4.8 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 1,4-Dichlorobenzene                   | 80           | U               | 80   | 8.0 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Trichlorofluoromethane                | 80           | U               | 80   | 16  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Dibromochloromethane                  | 40           | U               | 40   | 12  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Methylcyclohexane                     | 960          | U               | 960  | 12  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 2-Methylnaphthalene                   | 250          | U               | 250  | 17  | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Naphthalene                           | 250          | U               | 250  | 6.7 | ug/Kg |   | 10/10/12 02:38 | 10/10/12 19:36 | 1       |

| Surrogate                    | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 88              |                 | 39 - 128 | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| 4-Bromofluorobenzene (Surr)  | 83              |                 | 26 - 141 | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Toluene-d8 (Surr)            | 84              |                 | 33 - 134 | 10/10/12 02:38 | 10/10/12 19:36 | 1       |
| Dibromofluoromethane (Surr)  | 82              |                 | 30 - 122 | 10/10/12 02:38 | 10/10/12 19:36 | 1       |

Lab Sample ID: LCS 240-60727/2-A

Matrix: Solid

Analysis Batch: 60878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60727

| Analyte              | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------------------|----------------|---------------|------------------|-------|---|------|-----------------|
| Acetone              | 1000           | 1370          |                  | ug/Kg |   | 137  | 16 - 156        |
| Benzene              | 500            | 480           |                  | ug/Kg |   | 96   | 70 - 117        |
| Bromodichloromethane | 500            | 411           |                  | ug/Kg |   | 82   | 28 - 123        |
| Bromoform            | 500            | 352           |                  | ug/Kg |   | 70   | 10 - 117        |
| Bromomethane         | 500            | 713           | *                | ug/Kg |   | 143  | 10 - 114        |

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-60727/2-A

Matrix: Solid

Analysis Batch: 60878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60727

| Analyte                               | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 2-Butanone (MEK)                      | 1000        | 1050       |               | ug/Kg |   | 105  | 10 - 199     |
| Carbon disulfide                      | 500         | 479        |               | ug/Kg |   | 96   | 10 - 132     |
| Carbon tetrachloride                  | 500         | 365        |               | ug/Kg |   | 73   | 29 - 118     |
| Chlorobenzene                         | 500         | 488        |               | ug/Kg |   | 98   | 71 - 116     |
| Chloroethane                          | 500         | 587        |               | ug/Kg |   | 117  | 10 - 120     |
| Chloroform                            | 500         | 462        |               | ug/Kg |   | 92   | 63 - 116     |
| Chloromethane                         | 500         | 354        |               | ug/Kg |   | 71   | 25 - 110     |
| 1,1-Dichloroethane                    | 500         | 451        |               | ug/Kg |   | 90   | 63 - 117     |
| 1,2-Dichloroethane                    | 500         | 489        |               | ug/Kg |   | 98   | 68 - 119     |
| 1,1-Dichloroethene                    | 500         | 625        |               | ug/Kg |   | 125  | 44 - 143     |
| 1,2-Dichloropropane                   | 500         | 482        |               | ug/Kg |   | 96   | 73 - 113     |
| 1,2,4-Trimethylbenzene                | 500         | 458        |               | ug/Kg |   | 92   | 62 - 133     |
| cis-1,3-Dichloropropene               | 500         | 374        |               | ug/Kg |   | 75   | 25 - 120     |
| trans-1,3-Dichloropropene             | 500         | 342        |               | ug/Kg |   | 68   | 22 - 122     |
| Ethylbenzene                          | 500         | 497        |               | ug/Kg |   | 99   | 66 - 119     |
| 2-Hexanone                            | 1000        | 945        | J             | ug/Kg |   | 94   | 43 - 130     |
| Methylene Chloride                    | 500         | 562        |               | ug/Kg |   | 112  | 27 - 172     |
| 4-Methyl-2-pentanone (MIBK)           | 1000        | 990        | J             | ug/Kg |   | 99   | 49 - 121     |
| Styrene                               | 500         | 457        |               | ug/Kg |   | 91   | 60 - 120     |
| 1,1,2,2-Tetrachloroethane             | 500         | 486        |               | ug/Kg |   | 97   | 54 - 121     |
| Tetrachloroethene                     | 500         | 541        |               | ug/Kg |   | 108  | 58 - 131     |
| Toluene                               | 500         | 475        |               | ug/Kg |   | 95   | 66 - 123     |
| Trichloroethene                       | 500         | 528        |               | ug/Kg |   | 106  | 59 - 124     |
| 1,3,5-Trimethylbenzene                | 500         | 459        |               | ug/Kg |   | 92   | 60 - 130     |
| Vinyl chloride                        | 500         | 349        |               | ug/Kg |   | 70   | 33 - 110     |
| Xylenes, Total                        | 1500        | 1430       |               | ug/Kg |   | 95   | 68 - 119     |
| 1,1,1-Trichloroethane                 | 500         | 376        |               | ug/Kg |   | 75   | 38 - 122     |
| 1,1,2-Trichloroethane                 | 500         | 490        |               | ug/Kg |   | 98   | 74 - 114     |
| Cyclohexane                           | 500         | 334        | J             | ug/Kg |   | 67   | 40 - 120     |
| 1,2-Dibromo-3-Chloropropane           | 500         | 332        |               | ug/Kg |   | 66   | 10 - 129     |
| 1,2-Dibromoethane                     | 500         | 443        |               | ug/Kg |   | 89   | 47 - 123     |
| Dichlorodifluoromethane               | 500         | 226        |               | ug/Kg |   | 45   | 10 - 110     |
| cis-1,2-Dichloroethene                | 500         | 463        |               | ug/Kg |   | 93   | 60 - 125     |
| trans-1,2-Dichloroethene              | 500         | 517        |               | ug/Kg |   | 103  | 58 - 121     |
| Isopropylbenzene                      | 500         | 472        |               | ug/Kg |   | 94   | 61 - 123     |
| Methyl acetate                        | 500         | 773        | J             | ug/Kg |   | 155  | 44 - 173     |
| Methyl tert-butyl ether               | 500         | 561        |               | ug/Kg |   | 112  | 34 - 157     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 500         | 547        |               | ug/Kg |   | 109  | 48 - 151     |
| 1,2,4-Trichlorobenzene                | 500         | 474        |               | ug/Kg |   | 95   | 41 - 135     |
| 1,2-Dichlorobenzene                   | 500         | 505        |               | ug/Kg |   | 101  | 68 - 118     |
| 1,3-Dichlorobenzene                   | 500         | 495        |               | ug/Kg |   | 99   | 66 - 121     |
| 1,4-Dichlorobenzene                   | 500         | 497        |               | ug/Kg |   | 99   | 65 - 119     |
| Trichlorofluoromethane                | 500         | 620        |               | ug/Kg |   | 124  | 17 - 145     |
| Dibromochloromethane                  | 500         | 387        |               | ug/Kg |   | 77   | 22 - 113     |
| Methylcyclohexane                     | 500         | 373        | J             | ug/Kg |   | 75   | 41 - 133     |
| Naphthalene                           | 500         | 445        |               | ug/Kg |   | 89   | 37 - 126     |

## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-60727/2-A

Matrix: Solid

Analysis Batch: 60878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60727

| Surrogate                    | LCS       |           | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 88        |           | 39 - 128 |
| 4-Bromofluorobenzene (Surr)  | 82        |           | 26 - 141 |
| Toluene-d8 (Surr)            | 78        |           | 33 - 134 |
| Dibromofluoromethane (Surr)  | 85        |           | 30 - 122 |

# Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                  |
|-------------------|------------------------|------------------------------------------------|-----------------|-----------------|------------------|
|                   |                        | 12DCE<br>(39-128)                              | BFB<br>(26-141) | TOL<br>(33-134) | DBFM<br>(30-122) |
| 240-15886-1       | S-007097-10212-MC-026  | 87                                             | 83              | 80              | 77               |
| 240-15886-2       | S-007097-10212-MC-027  | 87                                             | 80              | 80              | 75               |
| 240-15886-3       | S-007097-10212-MC-028  | 92                                             | 87              | 85              | 81               |
| 240-15886-4       | S-007097-10212-MC-029  | 95                                             | 87              | 87              | 85               |
| 240-15886-5       | S-007097-10212-MC-030  | 91                                             | 85              | 84              | 83               |
| 240-15886-6       | S-007097-10212-MC-031  | 80                                             | 73              | 74              | 74               |
| 240-15886-7       | S-007097-10212-MC-032  | 79                                             | 67              | 72              | 72               |
| 240-15886-8       | S-007097-10212-MC-033  | 83                                             | 76              | 76              | 74               |
| 240-15886-9       | S-007097-10212-MC-034  | 81                                             | 67              | 72              | 74               |
| 240-15886-10      | S-007097-10212-MC-035  | 80                                             | 71              | 73              | 70               |
| 240-15886-11      | S-007097-10212-MC-036  | 96                                             | 88              | 88              | 88               |
| 240-15886-12      | TB-007097-10212-MC-037 | 109                                            | 98              | 99              | 98               |
| LCS 240-60396/2-A | Lab Control Sample     | 83                                             | 78              | 75              | 76               |
| LCS 240-60727/2-A | Lab Control Sample     | 88                                             | 82              | 78              | 85               |
| MB 240-60396/1-A  | Method Blank           | 83                                             | 75              | 75              | 77               |
| MB 240-60727/1-A  | Method Blank           | 88                                             | 83              | 84              | 82               |

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

**Client Sample ID: S-007097-10212-MC-026**

**Lab Sample ID: 240-15886-1**

Date Collected: 10/02/12 09:00

Matrix: Solid

Date Received: 10/03/12 09:30

Percent Solids: 94.0

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 60396        | 10/05/12 21:12       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 60558        | 10/09/12 03:58       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 60348        | 10/05/12 17:26       | MAF     | TAL NC |

**Client Sample ID: S-007097-10212-MC-027**

**Lab Sample ID: 240-15886-2**

Date Collected: 10/02/12 09:10

Matrix: Solid

Date Received: 10/03/12 09:30

Percent Solids: 89.7

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 60396        | 10/05/12 21:12       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 60558        | 10/09/12 04:22       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 60348        | 10/05/12 17:26       | MAF     | TAL NC |

**Client Sample ID: S-007097-10212-MC-028**

**Lab Sample ID: 240-15886-3**

Date Collected: 10/02/12 09:30

Matrix: Solid

Date Received: 10/03/12 09:30

Percent Solids: 84.0

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 60396        | 10/05/12 21:12       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 60558        | 10/09/12 04:46       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 60348        | 10/05/12 17:26       | MAF     | TAL NC |

**Client Sample ID: S-007097-10212-MC-029**

**Lab Sample ID: 240-15886-4**

Date Collected: 10/02/12 10:00

Matrix: Solid

Date Received: 10/03/12 09:30

Percent Solids: 94.1

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 60396        | 10/05/12 21:12       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 60558        | 10/09/12 05:10       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 60348        | 10/05/12 17:26       | MAF     | TAL NC |

**Client Sample ID: S-007097-10212-MC-030**

**Lab Sample ID: 240-15886-5**

Date Collected: 10/02/12 10:10

Matrix: Solid

Date Received: 10/03/12 09:30

Percent Solids: 93.4

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 60396        | 10/05/12 21:12       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 60712        | 10/09/12 21:02       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 60348        | 10/05/12 17:26       | MAF     | TAL NC |

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

**Client Sample ID: S-007097-10212-MC-031**

**Lab Sample ID: 240-15886-6**

**Date Collected: 10/02/12 10:30**

**Matrix: Solid**

**Date Received: 10/03/12 09:30**

**Percent Solids: 86.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 60396        | 10/05/12 21:12       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 60712        | 10/09/12 21:26       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 60348        | 10/05/12 17:26       | MAF     | TAL NC |

**Client Sample ID: S-007097-10212-MC-032**

**Lab Sample ID: 240-15886-7**

**Date Collected: 10/02/12 11:30**

**Matrix: Solid**

**Date Received: 10/03/12 09:30**

**Percent Solids: 91.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 60396        | 10/05/12 21:12       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 60712        | 10/09/12 21:49       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 60348        | 10/05/12 17:26       | MAF     | TAL NC |

**Client Sample ID: S-007097-10212-MC-033**

**Lab Sample ID: 240-15886-8**

**Date Collected: 10/02/12 12:00**

**Matrix: Solid**

**Date Received: 10/03/12 09:30**

**Percent Solids: 85.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 60396        | 10/05/12 21:12       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 60712        | 10/09/12 22:13       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 60348        | 10/05/12 17:26       | MAF     | TAL NC |

**Client Sample ID: S-007097-10212-MC-034**

**Lab Sample ID: 240-15886-9**

**Date Collected: 10/02/12 12:10**

**Matrix: Solid**

**Date Received: 10/03/12 09:30**

**Percent Solids: 88.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 60396        | 10/05/12 21:12       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 60712        | 10/09/12 22:37       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 60348        | 10/05/12 17:26       | MAF     | TAL NC |

**Client Sample ID: S-007097-10212-MC-035**

**Lab Sample ID: 240-15886-10**

**Date Collected: 10/02/12 12:30**

**Matrix: Solid**

**Date Received: 10/03/12 09:30**

**Percent Solids: 91.7**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 60396        | 10/05/12 21:12       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 60712        | 10/09/12 23:01       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 60348        | 10/05/12 17:26       | MAF     | TAL NC |

## Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

**Client Sample ID: S-007097-10212-MC-036**

**Lab Sample ID: 240-15886-11**

**Date Collected: 10/02/12 12:40**

**Matrix: Solid**

**Date Received: 10/03/12 09:30**

**Percent Solids: 88.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 60727        | 10/10/12 02:38       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 60878        | 10/10/12 20:23       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 60348        | 10/05/12 17:26       | MAF     | TAL NC |

**Client Sample ID: TB-007097-10212-MC-037**

**Lab Sample ID: 240-15886-12**

**Date Collected: 10/02/12 00:00**

**Matrix: Solid**

**Date Received: 10/03/12 09:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 60727        | 10/10/12 02:38       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 60878        | 10/10/12 20:47       | TL      | TAL NC |

### Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-15886-1

### Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority         | Program       | EPA Region | Certification ID | Expiration Date |
|-------------------|---------------|------------|------------------|-----------------|
| California        | NELAC         | 9          | 01144CA          | 06-30-13        |
| Connecticut       | State Program | 1          | PH-0590          | 12-31-13        |
| Florida           | NELAC         | 4          | E87225           | 06-30-13        |
| Georgia           | State Program | 4          | N/A              | 06-30-13        |
| Illinois          | NELAC         | 5          | 200004           | 07-31-13        |
| Kansas            | NELAC         | 7          | E-10336          | 01-31-13        |
| Kentucky          | State Program | 4          | 58               | 11-16-12        |
| L-A-B             | DoD ELAP      |            | L2315            | 02-28-13        |
| Minnesota         | NELAC         | 5          | 039-999-348      | 12-31-12        |
| Nevada            | State Program | 9          | OH-000482008A    | 07-31-13        |
| New Jersey        | NELAC         | 2          | OH001            | 06-30-13        |
| New York          | NELAC         | 2          | 10975            | 04-01-13        |
| Ohio VAP          | State Program | 5          | CL0024           | 01-19-14        |
| Pennsylvania      | NELAC         | 3          | 68-00340         | 08-31-13        |
| Texas             | NELAC         | 6          |                  | 08-03-13        |
| USDA              | Federal       |            | P330-11-00328    | 08-26-14        |
| Virginia          | NELAC         | 3          | 460175           | 09-14-13        |
| Washington        | State Program | 10         | C971             | 01-12-13        |
| West Virginia DEP | State Program | 3          | 210              | 12-31-12        |
| Wisconsin         | State Program | 5          | 999518190        | 08-31-13        |



# CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

**Fax: (734) 453-5201**

COC NO. PL-08041

PAGE 1 OF 1

(See Reverse Side for Instructions)

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- 11
- 12
- 13
- 14
- 15

Login # : 15886

Site Name

By: 

Opened on 10-3-12

—(Signature)

| TestAmerica Cooler # | 241-2557 | Foam Box | Client Cooler | Box | Other |
|----------------------|----------|----------|---------------|-----|-------|
|----------------------|----------|----------|---------------|-----|-------|

COOLANT: Wet Ice Blue Ice Dry Ice Water None

| IR GUN# | 1 | (CF 0°C) | Observed Sample Temp. | °C | Corrected Sample Temp. | °C |
|---------|---|----------|-----------------------|----|------------------------|----|
|---------|---|----------|-----------------------|----|------------------------|----|

IR GUN# 4G (CF  $-1^{\circ}\text{C}$ ) Observed Sample Temp.  $^{\circ}\text{C}$  Corrected Sample Temp.  $^{\circ}\text{C}$

IR GUN# 5G (CF -1°C) Observed Sample Temp. °C Corrected Sample Temp. °C

IR GUN# 8 (CF 0°C) Observed Sample Temp. 1.7 °C Corrected Sample Temp. 1.7 °C

☐ Multiple  
on Back

| 2. Were custody seals on the outside of the cooler(s)? | If Yes Quantity | Yes | No |
|--------------------------------------------------------|-----------------|-----|----|
|                                                        |                 |     |    |

-Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were custody seals on the bottle(s)? Yes ☐ No ☒

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Did all bottles arrive in good condition (Unbroken)? Yes No

7. Could all bottle labels be reconciled with the COC? Yes No

8. Were correct bottle(s) used for the test(s) indicated? Yes No

9. Sufficient quantity received to perform indicated analyses? Yes No

10. Were sample(s) at the correct pH upon receipt? Yes No NA

11. Were VOAs on the COC? Yes ☐ No ☒

12. Were air bubbles >6 mm in any VOA vials? Yes No NA

13. Was a trip blank present in the cooler(s)? Yes No

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_  
Concerning \_\_\_\_\_

#### 14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

## 15. SAMPLE CONDITION

Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.

Sample(s) \_\_\_\_\_ were received in a broken container.

Sample(s) \_\_\_\_\_ were received with bubble >6 mm in diameter. (Notify PM)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-15886-1

Login Number: 15886

List Source: TestAmerica Canton

List Number: 1

Creator: Sutek, Nick

| Question                                                                                 | Answer | Comment                      |
|------------------------------------------------------------------------------------------|--------|------------------------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    | REFER TO COOLER RECEIPT FORM |
| The cooler's custody seal, if present, is intact.                                        | N/A    |                              |
| Sample custody seals, if present, are intact.                                            | N/A    |                              |
| The cooler or samples do not appear to have been compromised or tampered with.           | N/A    |                              |
| Samples were received on ice.                                                            | N/A    |                              |
| Cooler Temperature is acceptable.                                                        | N/A    |                              |
| Cooler Temperature is recorded.                                                          | N/A    |                              |
| COC is present.                                                                          | N/A    |                              |
| COC is filled out in ink and legible.                                                    | N/A    |                              |
| COC is filled out with all pertinent information.                                        | N/A    |                              |
| Is the Field Sampler's name present on COC?                                              | N/A    |                              |
| There are no discrepancies between the containers received and the COC.                  | N/A    |                              |
| Samples are received within Holding Time.                                                | N/A    |                              |
| Sample containers have legible labels.                                                   | N/A    |                              |
| Containers are not broken or leaking.                                                    | N/A    |                              |
| Sample collection date/times are provided.                                               | N/A    |                              |
| Appropriate sample containers are used.                                                  | N/A    |                              |
| Sample bottles are completely filled.                                                    | N/A    |                              |
| Sample Preservation Verified.                                                            | N/A    |                              |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | N/A    |                              |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | N/A    |                              |
| Multiphasic samples are not present.                                                     | N/A    |                              |
| Samples do not require splitting or compositing.                                         | N/A    |                              |
| Residual Chlorine Checked.                                                               | N/A    |                              |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-13660-1

Client Project/Site: 7097-T05, RACER PCC

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Mr. Paul Wiseman



Authorized for release by:

8/15/2012 3:23:56 PM

Denise Heckler

Project Manager II

[denise.heckler@testamericainc.com](mailto:denise.heckler@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



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[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

**Job ID: 240-13660-1**

**Laboratory: TestAmerica Canton**

### Narrative

## CASE NARRATIVE

**Client: Conestoga-Rovers & Associates, Inc.**

**Project: 7097-T05, RACER PCC**

**Report Number: 240-13660-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

### RECEIPT

The samples were received on 07/31/2012, 08/01/2012 and 08/02/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.8, 2.6 and 3.2 C.

### VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples SO-7097-073112-CB-012 (240-13729-1) and SO-7097-073112-CB-013 (240-13729-2) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. Samples SO-7097-073012-CB-007 (240-13660-1), SO-7097-073012-CB-008 (240-13660-2), SO-7097-073012-CB-009 (240-13660-3), SO-7097-073012-CB-010 (240-13660-4) and TB -7097-073012-CB-011 (240-13660-5) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 08/06/2012 and analyzed on 08/07/2012, 08/08/2012 and 08/09/2012.

Methylene Chloride was detected in method blank MB 240-53395/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Bromomethane and Chloroethane failed the recovery criteria high for LCS 240-53395/2-A.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

---

### Job ID: 240-13660-1 (Continued)

---

Laboratory: TestAmerica Canton (Continued)

#### VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples GW-7097-080112-CB-023 (240-13766-1), GW-7097-080112-CB-024 (240-13766-2) and TB-7097-080112-CB-025 (240-13766-3) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/13/2012.

No difficulties were encountered during the VOCs analyses.

All quality control parameters were within the acceptance limits.

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| *         | LCS or LCSD exceeds the control limits                                                                         |
| B         | Compound was found in the blank and sample.                                                                    |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                |
|----------------|------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                 |
| %R             | Percent Recovery                                                                                           |
| CNF            | Contains no Free Liquid                                                                                    |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL            | Estimated Detection Limit                                                                                  |
| EPA            | United States Environmental Protection Agency                                                              |
| MDL            | Method Detection Limit                                                                                     |
| ML             | Minimum Level (Dioxin)                                                                                     |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)                                               |
| PQL            | Practical Quantitation Limit                                                                               |
| QC             | Quality Control                                                                                            |
| RL             | Reporting Limit                                                                                            |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                       |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                        |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                      |

## Sample Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

| Lab Sample ID | Client Sample ID       | Matrix | Collected      | Received       |
|---------------|------------------------|--------|----------------|----------------|
| 240-13660-1   | SO-7097-073012-CB-007  | Solid  | 07/30/12 14:30 | 07/31/12 09:30 |
| 240-13660-2   | SO-7097-073012-CB-008  | Solid  | 07/30/12 14:50 | 07/31/12 09:30 |
| 240-13660-3   | SO-7097-073012-CB-009  | Solid  | 07/30/12 13:10 | 07/31/12 09:30 |
| 240-13660-4   | SO-7097-073012-CB-010  | Solid  | 07/30/12 13:20 | 07/31/12 09:30 |
| 240-13660-5   | TB -7097-073012-CB-011 | Solid  | 07/30/12 00:00 | 07/31/12 09:30 |
| 240-13729-1   | SO-7097-073112-CB-012  | Solid  | 07/31/12 09:25 | 08/01/12 09:30 |
| 240-13729-2   | SO-7097-073112-CB-013  | Solid  | 07/31/12 10:00 | 08/01/12 09:30 |
| 240-13766-1   | GW-7097-080112-CB-023  | Water  | 08/01/12 10:45 | 08/02/12 09:00 |
| 240-13766-2   | GW-7097-080112-CB-024  | Water  | 08/01/12 10:55 | 08/02/12 09:00 |
| 240-13766-3   | TB-7097-080112-CB-025  | Water  | 08/01/12 00:00 | 08/02/12 09:00 |

## Detection Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

### Client Sample ID: SO-7097-073012-CB-007

Lab Sample ID: 240-13660-1

| Analyte            | Result | Qualifier | RL  | MDL | Unit  | Dil | Fac | D | Method | Prep Type |
|--------------------|--------|-----------|-----|-----|-------|-----|-----|---|--------|-----------|
| Acetone            | 170    | J         | 620 | 170 | ug/Kg | 1   |     | ✱ | 8260B  | Total/NA  |
| Methylene Chloride | 94     | J B       | 210 | 79  | ug/Kg | 1   |     | ✱ | 8260B  | Total/NA  |

### Client Sample ID: SO-7097-073012-CB-008

Lab Sample ID: 240-13660-2

| Analyte                | Result | Qualifier | RL  | MDL | Unit  | Dil | Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|-------|-----|-----|---|--------|-----------|
| 1,2,4-Trimethylbenzene | 200    |           | 78  | 4.8 | ug/Kg | 1   |     | ✱ | 8260B  | Total/NA  |
| Ethylbenzene           | 19     | J         | 39  | 5.2 | ug/Kg | 1   |     | ✱ | 8260B  | Total/NA  |
| Methylene Chloride     | 110    | J B       | 190 | 75  | ug/Kg | 1   |     | ✱ | 8260B  | Total/NA  |
| Styrene                | 8.8    | J         | 39  | 5.4 | ug/Kg | 1   |     | ✱ | 8260B  | Total/NA  |
| Toluene                | 18     | J         | 78  | 16  | ug/Kg | 1   |     | ✱ | 8260B  | Total/NA  |
| 1,3,5-Trimethylbenzene | 74     | J         | 78  | 5.6 | ug/Kg | 1   |     | ✱ | 8260B  | Total/NA  |
| Xylenes, Total         | 78     | J         | 120 | 7.9 | ug/Kg | 1   |     | ✱ | 8260B  | Total/NA  |

### Client Sample ID: SO-7097-073012-CB-009

Lab Sample ID: 240-13660-3

| Analyte            | Result | Qualifier | RL  | MDL | Unit  | Dil | Fac | D | Method | Prep Type |
|--------------------|--------|-----------|-----|-----|-------|-----|-----|---|--------|-----------|
| Methylene Chloride | 110    | J B       | 210 | 81  | ug/Kg | 1   |     | ✱ | 8260B  | Total/NA  |

### Client Sample ID: SO-7097-073012-CB-010

Lab Sample ID: 240-13660-4

| Analyte            | Result | Qualifier | RL  | MDL | Unit  | Dil | Fac | D | Method | Prep Type |
|--------------------|--------|-----------|-----|-----|-------|-----|-----|---|--------|-----------|
| Methylene Chloride | 130    | J B       | 210 | 82  | ug/Kg | 1   |     | ✱ | 8260B  | Total/NA  |

### Client Sample ID: TB -7097-073012-CB-011

Lab Sample ID: 240-13660-5

| Analyte            | Result | Qualifier | RL  | MDL | Unit  | Dil | Fac | D | Method | Prep Type |
|--------------------|--------|-----------|-----|-----|-------|-----|-----|---|--------|-----------|
| Methylene Chloride | 110    | J B       | 200 | 77  | ug/Kg | 1   |     |   | 8260B  | Total/NA  |

### Client Sample ID: SO-7097-073112-CB-012

Lab Sample ID: 240-13729-1

No Detections

### Client Sample ID: SO-7097-073112-CB-013

Lab Sample ID: 240-13729-2

No Detections

### Client Sample ID: GW-7097-080112-CB-023

Lab Sample ID: 240-13766-1

No Detections

### Client Sample ID: GW-7097-080112-CB-024

Lab Sample ID: 240-13766-2

No Detections

### Client Sample ID: TB-7097-080112-CB-025

Lab Sample ID: 240-13766-3

No Detections

## Method Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

| Method   | Method Description                 | Protocol | Laboratory |
|----------|------------------------------------|----------|------------|
| 8260B    | Volatile Organic Compounds (GC/MS) | SW846    | TAL NC     |
| Moisture | Percent Moisture                   | EPA      | TAL NC     |

### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SO-7097-073012-CB-007

Date Collected: 07/30/12 14:30

Date Received: 07/31/12 09:30

Lab Sample ID: 240-13660-1

Matrix: Solid

Percent Solids: 97.4

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 170    | J         | 620  | 170 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Benzene                               | 41     | U         | 41   | 12  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Bromodichloromethane                  | 82     | U         | 82   | 10  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Bromoform                             | 82     | U         | 82   | 20  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Bromomethane                          | 210    | U *       | 210  | 30  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 2-Butanone (MEK)                      | 620    | U         | 620  | 44  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Carbon disulfide                      | 210    | U         | 210  | 12  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Carbon tetrachloride                  | 41     | U         | 41   | 6.6 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Chlorobenzene                         | 41     | U         | 41   | 6.6 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Chloroethane                          | 210    | U *       | 210  | 63  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Chloroform                            | 41     | U         | 41   | 9.0 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Chloromethane                         | 210    | U         | 210  | 14  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,1-Dichloroethane                    | 41     | U         | 41   | 17  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,2-Dichloroethane                    | 41     | U         | 41   | 10  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,1-Dichloroethene                    | 41     | U         | 41   | 19  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,2-Dichloropropane                   | 41     | U         | 41   | 8.4 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,2,4-Trimethylbenzene                | 82     | U         | 82   | 5.1 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| cis-1,3-Dichloropropene               | 41     | U         | 41   | 8.1 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| trans-1,3-Dichloropropene             | 41     | U         | 41   | 21  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Ethylbenzene                          | 41     | U         | 41   | 5.6 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 2-Hexanone                            | 2100   | U         | 2100 | 21  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Methylene Chloride                    | 94     | J B       | 210  | 79  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2100   | U         | 2100 | 49  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Styrene                               | 41     | U         | 41   | 5.8 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,1,1,2,2-Tetrachloroethane           | 41     | U         | 41   | 9.2 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Tetrachloroethene                     | 41     | U         | 41   | 12  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Toluene                               | 82     | U         | 82   | 17  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Trichloroethene                       | 41     | U         | 41   | 10  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,3,5-Trimethylbenzene                | 82     | U         | 82   | 6.0 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Vinyl chloride                        | 33     | U         | 33   | 19  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Xylenes, Total                        | 120    | U         | 120  | 8.3 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,1,1-Trichloroethane                 | 41     | U         | 41   | 22  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,1,2-Trichloroethane                 | 41     | U         | 41   | 12  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Cyclohexane                           | 990    | U         | 990  | 41  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 210    | U         | 210  | 51  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,2-Dibromoethane                     | 210    | U         | 210  | 10  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Dichlorodifluoromethane               | 82     | U         | 82   | 16  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| cis-1,2-Dichloroethene                | 41     | U         | 41   | 7.1 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| trans-1,2-Dichloroethene              | 41     | U         | 41   | 9.5 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Isopropylbenzene                      | 210    | U         | 210  | 6.7 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Methyl acetate                        | 990    | U         | 990  | 26  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Methyl tert-butyl ether               | 210    | U         | 210  | 7.3 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 210    | U         | 210  | 40  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,2,4-Trichlorobenzene                | 210    | U         | 210  | 7.5 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,2-Dichlorobenzene                   | 82     | U         | 82   | 8.8 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,3-Dichlorobenzene                   | 82     | U         | 82   | 4.9 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 1,4-Dichlorobenzene                   | 82     | U         | 82   | 8.2 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Trichlorofluoromethane                | 82     | U         | 82   | 16  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Dibromochloromethane                  | 41     | U         | 41   | 12  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Methylcyclohexane                     | 990    | U         | 990  | 12  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 22:57 | 1       |

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 39 - 128 | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| 4-Bromofluorobenzene (Surr)  | 98        |           | 26 - 141 | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 33 - 134 | 08/06/12 14:40 | 08/07/12 22:57 | 1       |
| Dibromofluoromethane (Surr)  | 93        |           | 30 - 122 | 08/06/12 14:40 | 08/07/12 22:57 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SO-7097-073012-CB-008

Date Collected: 07/30/12 14:50

Date Received: 07/31/12 09:30

Lab Sample ID: 240-13660-2

Matrix: Solid

Percent Solids: 95.5

| Analyte                               | Result  | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|---------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 580     | U         | 580  | 160 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Benzene                               | 39      | U         | 39   | 12  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Bromodichloromethane                  | 78      | U         | 78   | 9.6 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Bromoform                             | 78      | U         | 78   | 18  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Bromomethane                          | 190     | U *       | 190  | 28  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 2-Butanone (MEK)                      | 580     | U         | 580  | 42  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Carbon disulfide                      | 190     | U         | 190  | 12  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Carbon tetrachloride                  | 39      | U         | 39   | 6.2 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Chlorobenzene                         | 39      | U         | 39   | 6.2 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Chloroethane                          | 190     | U *       | 190  | 59  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Chloroform                            | 39      | U         | 39   | 8.5 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Chloromethane                         | 190     | U         | 190  | 14  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,1-Dichloroethane                    | 39      | U         | 39   | 16  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,2-Dichloroethane                    | 39      | U         | 39   | 9.7 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,1-Dichloroethene                    | 39      | U         | 39   | 17  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,2-Dichloropropane                   | 39      | U         | 39   | 7.9 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,2,4-Trimethylbenzene                | 200     |           | 78   | 4.8 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| cis-1,3-Dichloropropene               | 39      | U         | 39   | 7.7 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| trans-1,3-Dichloropropene             | 39      | U         | 39   | 19  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Ethylbenzene                          | 19 J    |           | 39   | 5.2 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 2-Hexanone                            | 1900    | U         | 1900 | 19  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Methylene Chloride                    | 110 J B |           | 190  | 75  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 1900    | U         | 1900 | 47  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Styrene                               | 8.8 J   |           | 39   | 5.4 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,1,2,2-Tetrachloroethane             | 39      | U         | 39   | 8.6 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Tetrachloroethene                     | 39      | U         | 39   | 12  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Toluene                               | 18 J    |           | 78   | 16  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Trichloroethene                       | 39      | U         | 39   | 9.4 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,3,5-Trimethylbenzene                | 74 J    |           | 78   | 5.6 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Vinyl chloride                        | 31      | U         | 31   | 17  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Xylenes, Total                        | 78 J    |           | 120  | 7.9 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,1,1-Trichloroethane                 | 39      | U         | 39   | 20  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,1,2-Trichloroethane                 | 39      | U         | 39   | 12  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Cyclohexane                           | 930     | U         | 930  | 39  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 190     | U         | 190  | 48  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,2-Dibromoethane                     | 190     | U         | 190  | 9.7 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Dichlorodifluoromethane               | 78      | U         | 78   | 16  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| cis-1,2-Dichloroethene                | 39      | U         | 39   | 6.7 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| trans-1,2-Dichloroethene              | 39      | U         | 39   | 8.9 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Isopropylbenzene                      | 190     | U         | 190  | 6.3 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Methyl acetate                        | 930     | U         | 930  | 24  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Methyl tert-butyl ether               | 190     | U         | 190  | 6.9 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 190     | U         | 190  | 38  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,2,4-Trichlorobenzene                | 190     | U         | 190  | 7.1 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,2-Dichlorobenzene                   | 78      | U         | 78   | 8.3 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,3-Dichlorobenzene                   | 78      | U         | 78   | 4.7 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 1,4-Dichlorobenzene                   | 78      | U         | 78   | 7.8 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Trichlorofluoromethane                | 78      | U         | 78   | 16  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Dibromochloromethane                  | 39      | U         | 39   | 12  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Methylcyclohexane                     | 930     | U         | 930  | 12  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:22 | 1       |

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 39 - 128 | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| 4-Bromofluorobenzene (Surr)  | 98        |           | 26 - 141 | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 33 - 134 | 08/06/12 14:40 | 08/07/12 23:22 | 1       |
| Dibromofluoromethane (Surr)  | 92        |           | 30 - 122 | 08/06/12 14:40 | 08/07/12 23:22 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SO-7097-073012-CB-009

Date Collected: 07/30/12 13:10

Date Received: 07/31/12 09:30

Lab Sample ID: 240-13660-3

Matrix: Solid

Percent Solids: 94.9

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 630    | U         | 630  | 180 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Benzene                               | 42     | U         | 42   | 13  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Bromodichloromethane                  | 85     | U         | 85   | 10  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Bromoform                             | 85     | U         | 85   | 20  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Bromomethane                          | 210    | U *       | 210  | 31  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 2-Butanone (MEK)                      | 630    | U         | 630  | 45  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Carbon disulfide                      | 210    | U         | 210  | 13  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Carbon tetrachloride                  | 42     | U         | 42   | 6.8 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Chlorobenzene                         | 42     | U         | 42   | 6.8 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Chloroethane                          | 210    | U *       | 210  | 64  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Chloroform                            | 42     | U         | 42   | 9.3 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Chloromethane                         | 210    | U         | 210  | 15  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,1-Dichloroethane                    | 42     | U         | 42   | 18  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,2-Dichloroethane                    | 42     | U         | 42   | 11  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,1-Dichloroethene                    | 42     | U         | 42   | 19  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,2-Dichloropropane                   | 42     | U         | 42   | 8.7 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,2,4-Trimethylbenzene                | 85     | U         | 85   | 5.3 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| cis-1,3-Dichloropropene               | 42     | U         | 42   | 8.3 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| trans-1,3-Dichloropropene             | 42     | U         | 42   | 21  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Ethylbenzene                          | 42     | U         | 42   | 5.7 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 2-Hexanone                            | 2100   | U         | 2100 | 21  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Methylene Chloride                    | 110    | J B       | 210  | 81  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2100   | U         | 2100 | 51  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Styrene                               | 42     | U         | 42   | 5.9 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,1,2,2-Tetrachloroethane             | 42     | U         | 42   | 9.4 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Tetrachloroethene                     | 42     | U         | 42   | 13  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Toluene                               | 85     | U         | 85   | 18  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Trichloroethene                       | 42     | U         | 42   | 10  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,3,5-Trimethylbenzene                | 85     | U         | 85   | 6.1 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Vinyl chloride                        | 34     | U         | 34   | 19  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Xylenes, Total                        | 130    | U         | 130  | 8.6 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,1,1-Trichloroethane                 | 42     | U         | 42   | 22  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,1,2-Trichloroethane                 | 42     | U         | 42   | 13  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Cyclohexane                           | 1000   | U         | 1000 | 42  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 210    | U         | 210  | 53  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,2-Dibromoethane                     | 210    | U         | 210  | 11  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Dichlorodifluoromethane               | 85     | U         | 85   | 17  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| cis-1,2-Dichloroethene                | 42     | U         | 42   | 7.3 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| trans-1,2-Dichloroethene              | 42     | U         | 42   | 9.7 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Isopropylbenzene                      | 210    | U         | 210  | 6.9 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Methyl acetate                        | 1000   | U         | 1000 | 26  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Methyl tert-butyl ether               | 210    | U         | 210  | 7.5 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 210    | U         | 210  | 41  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,2,4-Trichlorobenzene                | 210    | U         | 210  | 7.7 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,2-Dichlorobenzene                   | 85     | U         | 85   | 9.1 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,3-Dichlorobenzene                   | 85     | U         | 85   | 5.1 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 1,4-Dichlorobenzene                   | 85     | U         | 85   | 8.5 | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Trichlorofluoromethane                | 85     | U         | 85   | 17  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Dibromochloromethane                  | 42     | U         | 42   | 13  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Methylcyclohexane                     | 1000   | U         | 1000 | 13  | ug/Kg | ☼ | 08/06/12 14:40 | 08/07/12 23:47 | 1       |

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 39 - 128 | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 26 - 141 | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 33 - 134 | 08/06/12 14:40 | 08/07/12 23:47 | 1       |
| Dibromofluoromethane (Surr)  | 93        |           | 30 - 122 | 08/06/12 14:40 | 08/07/12 23:47 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SO-7097-073012-CB-010

Date Collected: 07/30/12 13:20

Date Received: 07/31/12 09:30

Lab Sample ID: 240-13660-4

Matrix: Solid

Percent Solids: 94.2

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 640    | U         | 640  | 180 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Benzene                               | 43     | U         | 43   | 13  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Bromodichloromethane                  | 85     | U         | 85   | 11  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Bromoform                             | 85     | U         | 85   | 20  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Bromomethane                          | 210    | U *       | 210  | 31  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 2-Butanone (MEK)                      | 640    | U         | 640  | 46  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Carbon disulfide                      | 210    | U         | 210  | 13  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Carbon tetrachloride                  | 43     | U         | 43   | 6.8 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Chlorobenzene                         | 43     | U         | 43   | 6.8 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Chloroethane                          | 210    | U *       | 210  | 65  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Chloroform                            | 43     | U         | 43   | 9.4 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Chloromethane                         | 210    | U         | 210  | 15  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,1-Dichloroethane                    | 43     | U         | 43   | 18  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,2-Dichloroethane                    | 43     | U         | 43   | 11  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,1-Dichloroethene                    | 43     | U         | 43   | 19  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,2-Dichloropropane                   | 43     | U         | 43   | 8.7 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,2,4-Trimethylbenzene                | 85     | U         | 85   | 5.3 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| cis-1,3-Dichloropropene               | 43     | U         | 43   | 8.4 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| trans-1,3-Dichloropropene             | 43     | U         | 43   | 21  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Ethylbenzene                          | 43     | U         | 43   | 5.8 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 2-Hexanone                            | 2100   | U         | 2100 | 21  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Methylene Chloride                    | 130    | J B       | 210  | 82  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2100   | U         | 2100 | 51  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Styrene                               | 43     | U         | 43   | 6.0 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,1,2,2-Tetrachloroethane             | 43     | U         | 43   | 9.5 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Tetrachloroethene                     | 43     | U         | 43   | 13  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Toluene                               | 85     | U         | 85   | 18  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Trichloroethene                       | 43     | U         | 43   | 10  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,3,5-Trimethylbenzene                | 85     | U         | 85   | 6.2 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Vinyl chloride                        | 34     | U         | 34   | 19  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Xylenes, Total                        | 130    | U         | 130  | 8.6 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,1,1-Trichloroethane                 | 43     | U         | 43   | 22  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,1,2-Trichloroethane                 | 43     | U         | 43   | 13  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Cyclohexane                           | 1000   | U         | 1000 | 43  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 210    | U         | 210  | 53  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,2-Dibromoethane                     | 210    | U         | 210  | 11  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Dichlorodifluoromethane               | 85     | U         | 85   | 17  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| cis-1,2-Dichloroethene                | 43     | U         | 43   | 7.4 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| trans-1,2-Dichloroethene              | 43     | U         | 43   | 9.8 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Isopropylbenzene                      | 210    | U         | 210  | 6.9 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Methyl acetate                        | 1000   | U         | 1000 | 27  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Methyl tert-butyl ether               | 210    | U         | 210  | 7.6 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 210    | U         | 210  | 42  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,2,4-Trichlorobenzene                | 210    | U         | 210  | 7.8 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,2-Dichlorobenzene                   | 85     | U         | 85   | 9.2 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,3-Dichlorobenzene                   | 85     | U         | 85   | 5.1 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 1,4-Dichlorobenzene                   | 85     | U         | 85   | 8.5 | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Trichlorofluoromethane                | 85     | U         | 85   | 17  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Dibromochloromethane                  | 43     | U         | 43   | 13  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Methylcyclohexane                     | 1000   | U         | 1000 | 13  | ug/Kg | ☼ | 08/06/12 14:40 | 08/08/12 00:12 | 1       |

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 116       |           | 39 - 128 | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| 4-Bromofluorobenzene (Surr)  | 107       |           | 26 - 141 | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Toluene-d8 (Surr)            | 104       |           | 33 - 134 | 08/06/12 14:40 | 08/08/12 00:12 | 1       |
| Dibromofluoromethane (Surr)  | 103       |           | 30 - 122 | 08/06/12 14:40 | 08/08/12 00:12 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB -7097-073012-CB-011

Date Collected: 07/30/12 00:00

Date Received: 07/31/12 09:30

Lab Sample ID: 240-13660-5

Matrix: Solid

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 600    | U         | 600  | 170 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Benzene                               | 40     | U         | 40   | 12  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Bromodichloromethane                  | 80     | U         | 80   | 9.9 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Bromoform                             | 80     | U         | 80   | 19  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Bromomethane                          | 200    | U *       | 200  | 29  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 2-Butanone (MEK)                      | 600    | U         | 600  | 43  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Carbon disulfide                      | 200    | U         | 200  | 12  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Carbon tetrachloride                  | 40     | U         | 40   | 6.4 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Chlorobenzene                         | 40     | U         | 40   | 6.4 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Chloroethane                          | 200    | U *       | 200  | 61  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Chloroform                            | 40     | U         | 40   | 8.8 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Chloromethane                         | 200    | U         | 200  | 14  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,1-Dichloroethane                    | 40     | U         | 40   | 17  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,2-Dichloroethane                    | 40     | U         | 40   | 10  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,1-Dichloroethene                    | 40     | U         | 40   | 18  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,2-Dichloropropane                   | 40     | U         | 40   | 8.2 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,2,4-Trimethylbenzene                | 80     | U         | 80   | 5.0 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| cis-1,3-Dichloropropene               | 40     | U         | 40   | 7.9 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| trans-1,3-Dichloropropene             | 40     | U         | 40   | 20  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Ethylbenzene                          | 40     | U         | 40   | 5.4 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 2-Hexanone                            | 2000   | U         | 2000 | 20  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Methylene Chloride                    | 110    | J B       | 200  | 77  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2000   | U         | 2000 | 48  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Styrene                               | 40     | U         | 40   | 5.6 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,1,2,2-Tetrachloroethane             | 40     | U         | 40   | 8.9 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Tetrachloroethene                     | 40     | U         | 40   | 12  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Toluene                               | 80     | U         | 80   | 17  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Trichloroethene                       | 40     | U         | 40   | 9.7 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,3,5-Trimethylbenzene                | 80     | U         | 80   | 5.8 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Vinyl chloride                        | 32     | U         | 32   | 18  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Xylenes, Total                        | 120    | U         | 120  | 8.1 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,1,1-Trichloroethane                 | 40     | U         | 40   | 21  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,1,2-Trichloroethane                 | 40     | U         | 40   | 12  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Cyclohexane                           | 960    | U         | 960  | 40  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 200    | U         | 200  | 50  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,2-Dibromoethane                     | 200    | U         | 200  | 10  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Dichlorodifluoromethane               | 80     | U         | 80   | 16  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| cis-1,2-Dichloroethene                | 40     | U         | 40   | 6.9 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| trans-1,2-Dichloroethene              | 40     | U         | 40   | 9.2 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Isopropylbenzene                      | 200    | U         | 200  | 6.5 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Methyl acetate                        | 960    | U         | 960  | 25  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Methyl tert-butyl ether               | 200    | U         | 200  | 7.1 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 200    | U         | 200  | 39  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,2,4-Trichlorobenzene                | 200    | U         | 200  | 7.3 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,2-Dichlorobenzene                   | 80     | U         | 80   | 8.6 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,3-Dichlorobenzene                   | 80     | U         | 80   | 4.8 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 1,4-Dichlorobenzene                   | 80     | U         | 80   | 8.0 | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Trichlorofluoromethane                | 80     | U         | 80   | 16  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Dibromochloromethane                  | 40     | U         | 40   | 12  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Methylcyclohexane                     | 960    | U         | 960  | 12  | ug/Kg |   | 08/06/12 14:40 | 08/08/12 00:37 | 1       |

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 113       |           | 39 - 128 | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| 4-Bromofluorobenzene (Surr)  | 104       |           | 26 - 141 | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Toluene-d8 (Surr)            | 101       |           | 33 - 134 | 08/06/12 14:40 | 08/08/12 00:37 | 1       |
| Dibromofluoromethane (Surr)  | 100       |           | 30 - 122 | 08/06/12 14:40 | 08/08/12 00:37 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SO-7097-073112-CB-012

Date Collected: 07/31/12 09:25

Date Received: 08/01/12 09:30

Lab Sample ID: 240-13729-1

Matrix: Solid

Percent Solids: 94.8

| Analyte                 | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzene                 | 42     | U         | 42  | 13  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:10 | 1       |
| 1,2,4-Trimethylbenzene  | 84     | U         | 84  | 5.3 | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:10 | 1       |
| Ethylbenzene            | 42     | U         | 42  | 5.7 | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:10 | 1       |
| Toluene                 | 84     | U         | 84  | 18  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:10 | 1       |
| 1,3,5-Trimethylbenzene  | 84     | U         | 84  | 6.1 | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:10 | 1       |
| Xylenes, Total          | 130    | U         | 130 | 8.5 | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:10 | 1       |
| Methyl tert-butyl ether | 210    | U         | 210 | 7.5 | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:10 | 1       |
| 2-Methylnaphthalene     | 260    | U         | 260 | 18  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:10 | 1       |
| Naphthalene             | 260    | U         | 260 | 7.0 | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:10 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 105       |           | 39 - 128 | 08/06/12 11:06 | 08/09/12 04:10 | 1       |
| 4-Bromofluorobenzene (Surr)  | 94        |           | 26 - 141 | 08/06/12 11:06 | 08/09/12 04:10 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 33 - 134 | 08/06/12 11:06 | 08/09/12 04:10 | 1       |
| Dibromofluoromethane (Surr)  | 91        |           | 30 - 122 | 08/06/12 11:06 | 08/09/12 04:10 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SO-7097-073112-CB-013

Date Collected: 07/31/12 10:00

Date Received: 08/01/12 09:30

Lab Sample ID: 240-13729-2

Matrix: Solid

Percent Solids: 94.4

| Analyte                 | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzene                 | 42     | U         | 42  | 13  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:35 | 1       |
| 1,2,4-Trimethylbenzene  | 85     | U         | 85  | 5.3 | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:35 | 1       |
| Ethylbenzene            | 42     | U         | 42  | 5.7 | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:35 | 1       |
| Toluene                 | 85     | U         | 85  | 18  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:35 | 1       |
| 1,3,5-Trimethylbenzene  | 85     | U         | 85  | 6.1 | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:35 | 1       |
| Xylenes, Total          | 130    | U         | 130 | 8.6 | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:35 | 1       |
| Methyl tert-butyl ether | 210    | U         | 210 | 7.5 | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:35 | 1       |
| 2-Methylnaphthalene     | 260    | U         | 260 | 18  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:35 | 1       |
| Naphthalene             | 260    | U         | 260 | 7.1 | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 04:35 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 39 - 128 | 08/06/12 11:06 | 08/09/12 04:35 | 1       |
| 4-Bromofluorobenzene (Surr)  | 94        |           | 26 - 141 | 08/06/12 11:06 | 08/09/12 04:35 | 1       |
| Toluene-d8 (Surr)            | 90        |           | 33 - 134 | 08/06/12 11:06 | 08/09/12 04:35 | 1       |
| Dibromofluoromethane (Surr)  | 87        |           | 30 - 122 | 08/06/12 11:06 | 08/09/12 04:35 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: GW-7097-080112-CB-023

Date Collected: 08/01/12 10:45

Date Received: 08/02/12 09:00

Lab Sample ID: 240-13766-1

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Benzene                      | 1.0       | U         | 1.0      | 0.13  | ug/L |   |          | 08/13/12 20:16 | 1       |
| Ethylbenzene                 | 1.0       | U         | 1.0      | 0.17  | ug/L |   |          | 08/13/12 20:16 | 1       |
| Toluene                      | 1.0       | U         | 1.0      | 0.13  | ug/L |   |          | 08/13/12 20:16 | 1       |
| Xylenes, Total               | 2.0       | U         | 2.0      | 0.28  | ug/L |   |          | 08/13/12 20:16 | 1       |
| Methyl tert-butyl ether      | 5.0       | U         | 5.0      | 0.17  | ug/L |   |          | 08/13/12 20:16 | 1       |
| 1,2,4-Trimethylbenzene       | 1.0       | U         | 1.0      | 0.12  | ug/L |   |          | 08/13/12 20:16 | 1       |
| 1,3,5-Trimethylbenzene       | 1.0       | U         | 1.0      | 0.096 | ug/L |   |          | 08/13/12 20:16 | 1       |
| 2-Methylnaphthalene          | 5.0       | U         | 5.0      | 0.47  | ug/L |   |          | 08/13/12 20:16 | 1       |
| Naphthalene                  | 5.0       | U         | 5.0      | 0.24  | ug/L |   |          | 08/13/12 20:16 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 63 - 129 |       |      |   |          | 08/13/12 20:16 | 1       |
| 4-Bromofluorobenzene (Surr)  | 92        |           | 66 - 117 |       |      |   |          | 08/13/12 20:16 | 1       |
| Toluene-d8 (Surr)            | 91        |           | 74 - 115 |       |      |   |          | 08/13/12 20:16 | 1       |
| Dibromofluoromethane (Surr)  | 104       |           | 75 - 121 |       |      |   |          | 08/13/12 20:16 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: GW-7097-080112-CB-024

Date Collected: 08/01/12 10:55

Date Received: 08/02/12 09:00

Lab Sample ID: 240-13766-2

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Benzene                      | 1.0       | U         | 1.0      | 0.13  | ug/L |   |          | 08/13/12 18:24 | 1       |
| Ethylbenzene                 | 1.0       | U         | 1.0      | 0.17  | ug/L |   |          | 08/13/12 18:24 | 1       |
| Toluene                      | 1.0       | U         | 1.0      | 0.13  | ug/L |   |          | 08/13/12 18:24 | 1       |
| Xylenes, Total               | 2.0       | U         | 2.0      | 0.28  | ug/L |   |          | 08/13/12 18:24 | 1       |
| Methyl tert-butyl ether      | 5.0       | U         | 5.0      | 0.17  | ug/L |   |          | 08/13/12 18:24 | 1       |
| 1,2,4-Trimethylbenzene       | 1.0       | U         | 1.0      | 0.12  | ug/L |   |          | 08/13/12 18:24 | 1       |
| 1,3,5-Trimethylbenzene       | 1.0       | U         | 1.0      | 0.096 | ug/L |   |          | 08/13/12 18:24 | 1       |
| 2-Methylnaphthalene          | 5.0       | U         | 5.0      | 0.47  | ug/L |   |          | 08/13/12 18:24 | 1       |
| Naphthalene                  | 5.0       | U         | 5.0      | 0.24  | ug/L |   |          | 08/13/12 18:24 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 63 - 129 |       |      |   |          | 08/13/12 18:24 | 1       |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 66 - 117 |       |      |   |          | 08/13/12 18:24 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 74 - 115 |       |      |   |          | 08/13/12 18:24 | 1       |
| Dibromofluoromethane (Surr)  | 105       |           | 75 - 121 |       |      |   |          | 08/13/12 18:24 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-7097-080112-CB-025

Date Collected: 08/01/12 00:00

Date Received: 08/02/12 09:00

Lab Sample ID: 240-13766-3

Matrix: Water

| Analyte                 | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Benzene                 | 1.0    | U         | 1.0 | 0.13  | ug/L |   |          | 08/13/12 18:46 | 1       |
| Ethylbenzene            | 1.0    | U         | 1.0 | 0.17  | ug/L |   |          | 08/13/12 18:46 | 1       |
| Toluene                 | 1.0    | U         | 1.0 | 0.13  | ug/L |   |          | 08/13/12 18:46 | 1       |
| Xylenes, Total          | 2.0    | U         | 2.0 | 0.28  | ug/L |   |          | 08/13/12 18:46 | 1       |
| Methyl tert-butyl ether | 5.0    | U         | 5.0 | 0.17  | ug/L |   |          | 08/13/12 18:46 | 1       |
| 1,2,4-Trimethylbenzene  | 1.0    | U         | 1.0 | 0.12  | ug/L |   |          | 08/13/12 18:46 | 1       |
| 1,3,5-Trimethylbenzene  | 1.0    | U         | 1.0 | 0.096 | ug/L |   |          | 08/13/12 18:46 | 1       |
| 2-Methylnaphthalene     | 5.0    | U         | 5.0 | 0.47  | ug/L |   |          | 08/13/12 18:46 | 1       |
| Naphthalene             | 5.0    | U         | 5.0 | 0.24  | ug/L |   |          | 08/13/12 18:46 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 63 - 129 |          | 08/13/12 18:46 | 1       |
| 4-Bromofluorobenzene (Surr)  | 92        |           | 66 - 117 |          | 08/13/12 18:46 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 74 - 115 |          | 08/13/12 18:46 | 1       |
| Dibromofluoromethane (Surr)  | 103       |           | 75 - 121 |          | 08/13/12 18:46 | 1       |

## QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

### GC/MS VOA

#### Prep Batch: 53354

| Lab Sample ID     | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|-------------------|-----------------------|-----------|--------|--------|------------|
| 240-13729-1       | SO-7097-073112-CB-012 | Total/NA  | Solid  | 5035   |            |
| 240-13729-2       | SO-7097-073112-CB-013 | Total/NA  | Solid  | 5035   |            |
| LCS 240-53354/2-A | Lab Control Sample    | Total/NA  | Solid  | 5035   |            |
| MB 240-53354/1-A  | Method Blank          | Total/NA  | Solid  | 5035   |            |

#### Prep Batch: 53395

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 240-13660-1       | SO-7097-073012-CB-007  | Total/NA  | Solid  | 5035   |            |
| 240-13660-2       | SO-7097-073012-CB-008  | Total/NA  | Solid  | 5035   |            |
| 240-13660-3       | SO-7097-073012-CB-009  | Total/NA  | Solid  | 5035   |            |
| 240-13660-4       | SO-7097-073012-CB-010  | Total/NA  | Solid  | 5035   |            |
| 240-13660-5       | TB -7097-073012-CB-011 | Total/NA  | Solid  | 5035   |            |
| LCS 240-53395/2-A | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| MB 240-53395/1-A  | Method Blank           | Total/NA  | Solid  | 5035   |            |

#### Analysis Batch: 53623

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 240-13660-1       | SO-7097-073012-CB-007  | Total/NA  | Solid  | 8260B  | 53395      |
| 240-13660-2       | SO-7097-073012-CB-008  | Total/NA  | Solid  | 8260B  | 53395      |
| 240-13660-3       | SO-7097-073012-CB-009  | Total/NA  | Solid  | 8260B  | 53395      |
| 240-13660-4       | SO-7097-073012-CB-010  | Total/NA  | Solid  | 8260B  | 53395      |
| 240-13660-5       | TB -7097-073012-CB-011 | Total/NA  | Solid  | 8260B  | 53395      |
| LCS 240-53395/2-A | Lab Control Sample     | Total/NA  | Solid  | 8260B  | 53395      |
| MB 240-53395/1-A  | Method Blank           | Total/NA  | Solid  | 8260B  | 53395      |

#### Analysis Batch: 53777

| Lab Sample ID     | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|-------------------|-----------------------|-----------|--------|--------|------------|
| 240-13729-1       | SO-7097-073112-CB-012 | Total/NA  | Solid  | 8260B  | 53354      |
| 240-13729-2       | SO-7097-073112-CB-013 | Total/NA  | Solid  | 8260B  | 53354      |
| LCS 240-53354/2-A | Lab Control Sample    | Total/NA  | Solid  | 8260B  | 53354      |
| MB 240-53354/1-A  | Method Blank          | Total/NA  | Solid  | 8260B  | 53354      |

#### Analysis Batch: 54194

| Lab Sample ID   | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|-----------------|-----------------------|-----------|--------|--------|------------|
| 240-13766-1     | GW-7097-080112-CB-023 | Total/NA  | Water  | 8260B  |            |
| 240-13766-1 MS  | GW-7097-080112-CB-023 | Total/NA  | Water  | 8260B  |            |
| 240-13766-1 MSD | GW-7097-080112-CB-023 | Total/NA  | Water  | 8260B  |            |
| 240-13766-2     | GW-7097-080112-CB-024 | Total/NA  | Water  | 8260B  |            |
| 240-13766-3     | TB-7097-080112-CB-025 | Total/NA  | Water  | 8260B  |            |
| LCS 240-54194/4 | Lab Control Sample    | Total/NA  | Water  | 8260B  |            |
| MB 240-54194/5  | Method Blank          | Total/NA  | Water  | 8260B  |            |

### General Chemistry

#### Analysis Batch: 52965

| Lab Sample ID  | Client Sample ID      | Prep Type | Matrix | Method   | Prep Batch |
|----------------|-----------------------|-----------|--------|----------|------------|
| 240-13660-1    | SO-7097-073012-CB-007 | Total/NA  | Solid  | Moisture |            |
| 240-13660-1 DU | SO-7097-073012-CB-007 | Total/NA  | Solid  | Moisture |            |
| 240-13660-2    | SO-7097-073012-CB-008 | Total/NA  | Solid  | Moisture |            |
| 240-13660-3    | SO-7097-073012-CB-009 | Total/NA  | Solid  | Moisture |            |
| 240-13660-4    | SO-7097-073012-CB-010 | Total/NA  | Solid  | Moisture |            |
| 240-13729-1    | SO-7097-073112-CB-012 | Total/NA  | Solid  | Moisture |            |

## QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

### General Chemistry (Continued)

#### Analysis Batch: 52965 (Continued)

| Lab Sample ID  | Client Sample ID      | Prep Type | Matrix | Method   | Prep Batch |
|----------------|-----------------------|-----------|--------|----------|------------|
| 240-13729-1 DU | SO-7097-073112-CB-012 | Total/NA  | Solid  | Moisture |            |
| 240-13729-2    | SO-7097-073112-CB-013 | Total/NA  | Solid  | Moisture |            |

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-53354/1-A

Matrix: Solid

Analysis Batch: 53777

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53354

| Analyte                 | MB<br>Result | MB<br>Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------------|-----------------|-----|-----|-------|---|----------------|----------------|---------|
| Benzene                 | 40           | U               | 40  | 12  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 2-Methylnaphthalene     | 250          | U               | 250 | 17  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Naphthalene             | 250          | U               | 250 | 6.7 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,2,4-Trimethylbenzene  | 80           | U               | 80  | 5.0 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Ethylbenzene            | 40           | U               | 40  | 5.4 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Toluene                 | 80           | U               | 80  | 17  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,3,5-Trimethylbenzene  | 80           | U               | 80  | 5.8 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Xylenes, Total          | 120          | U               | 120 | 8.1 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Methyl tert-butyl ether | 200          | U               | 200 | 7.1 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |

| Surrogate                    | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101             |                 | 39 - 128 | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 4-Bromofluorobenzene (Surr)  | 90              |                 | 26 - 141 | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Toluene-d8 (Surr)            | 88              |                 | 33 - 134 | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Dibromofluoromethane (Surr)  | 88              |                 | 30 - 122 | 08/06/12 11:06 | 08/08/12 19:21 | 1       |

Lab Sample ID: LCS 240-53354/2-A

Matrix: Solid

Analysis Batch: 53777

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53354

| Analyte                 | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|-------------------------|----------------|---------------|------------------|-------|---|------|-----------------|
| Benzene                 | 500            | 519           |                  | ug/Kg |   | 104  | 70 - 117        |
| Naphthalene             | 500            | 548           |                  | ug/Kg |   | 110  | 37 - 126        |
| 1,2,4-Trimethylbenzene  | 500            | 482           |                  | ug/Kg |   | 96   | 62 - 133        |
| Ethylbenzene            | 500            | 515           |                  | ug/Kg |   | 103  | 66 - 119        |
| Toluene                 | 500            | 516           |                  | ug/Kg |   | 103  | 66 - 123        |
| 1,3,5-Trimethylbenzene  | 500            | 472           |                  | ug/Kg |   | 94   | 60 - 130        |
| Xylenes, Total          | 1500           | 1500          |                  | ug/Kg |   | 100  | 68 - 119        |
| Methyl tert-butyl ether | 500            | 601           |                  | ug/Kg |   | 120  | 34 - 157        |

| Surrogate                    | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|------------------------------|------------------|------------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 98               |                  | 39 - 128 |
| 4-Bromofluorobenzene (Surr)  | 93               |                  | 26 - 141 |
| Toluene-d8 (Surr)            | 87               |                  | 33 - 134 |
| Dibromofluoromethane (Surr)  | 90               |                  | 30 - 122 |

Lab Sample ID: MB 240-53395/1-A

Matrix: Solid

Analysis Batch: 53623

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53395

| Analyte              | MB<br>Result | MB<br>Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|--------------|-----------------|-----|-----|-------|---|----------------|----------------|---------|
| Acetone              | 600          | U               | 600 | 170 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Benzene              | 40           | U               | 40  | 12  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Bromodichloromethane | 80           | U               | 80  | 9.9 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Bromoform            | 80           | U               | 80  | 19  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Bromomethane         | 200          | U               | 200 | 29  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 2-Butanone (MEK)     | 600          | U               | 600 | 43  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Carbon disulfide     | 200          | U               | 200 | 12  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Carbon tetrachloride | 40           | U               | 40  | 6.4 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-53395/1-A

Matrix: Solid

Analysis Batch: 53623

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53395

| Analyte                               | MB<br>Result | MB<br>Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------------|-----------------|------|-----|-------|---|----------------|----------------|---------|
| Chlorobenzene                         | 40           | U               | 40   | 6.4 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Chloroethane                          | 200          | U               | 200  | 61  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Chloroform                            | 40           | U               | 40   | 8.8 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Chloromethane                         | 200          | U               | 200  | 14  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,1-Dichloroethane                    | 40           | U               | 40   | 17  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,2-Dichloroethane                    | 40           | U               | 40   | 10  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,1-Dichloroethene                    | 40           | U               | 40   | 18  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,2-Dichloropropane                   | 40           | U               | 40   | 8.2 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,2,4-Trimethylbenzene                | 80           | U               | 80   | 5.0 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| cis-1,3-Dichloropropene               | 40           | U               | 40   | 7.9 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| trans-1,3-Dichloropropene             | 40           | U               | 40   | 20  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Ethylbenzene                          | 40           | U               | 40   | 5.4 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 2-Hexanone                            | 2000         | U               | 2000 | 20  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Methylene Chloride                    | 110          | J               | 200  | 77  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2000         | U               | 2000 | 48  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Styrene                               | 40           | U               | 40   | 5.6 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,1,2,2-Tetrachloroethane             | 40           | U               | 40   | 8.9 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Tetrachloroethene                     | 40           | U               | 40   | 12  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Toluene                               | 80           | U               | 80   | 17  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Trichloroethene                       | 40           | U               | 40   | 9.7 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,3,5-Trimethylbenzene                | 80           | U               | 80   | 5.8 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Vinyl chloride                        | 32           | U               | 32   | 18  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Xylenes, Total                        | 120          | U               | 120  | 8.1 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,1,1-Trichloroethane                 | 40           | U               | 40   | 21  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,1,2-Trichloroethane                 | 40           | U               | 40   | 12  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Cyclohexane                           | 960          | U               | 960  | 40  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 200          | U               | 200  | 50  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,2-Dibromoethane                     | 200          | U               | 200  | 10  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Dichlorodifluoromethane               | 80           | U               | 80   | 16  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| cis-1,2-Dichloroethene                | 40           | U               | 40   | 6.9 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| trans-1,2-Dichloroethene              | 40           | U               | 40   | 9.2 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Isopropylbenzene                      | 200          | U               | 200  | 6.5 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Methyl acetate                        | 960          | U               | 960  | 25  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Methyl tert-butyl ether               | 200          | U               | 200  | 7.1 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 200          | U               | 200  | 39  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,2,4-Trichlorobenzene                | 200          | U               | 200  | 7.3 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,2-Dichlorobenzene                   | 80           | U               | 80   | 8.6 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,3-Dichlorobenzene                   | 80           | U               | 80   | 4.8 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 1,4-Dichlorobenzene                   | 80           | U               | 80   | 8.0 | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Trichlorofluoromethane                | 80           | U               | 80   | 16  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Dibromochloromethane                  | 40           | U               | 40   | 12  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Methylcyclohexane                     | 960          | U               | 960  | 12  | ug/Kg |   | 08/06/12 14:40 | 08/07/12 22:33 | 1       |

| Surrogate                    | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 97              |                 | 39 - 128 | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| 4-Bromofluorobenzene (Surr)  | 94              |                 | 26 - 141 | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Toluene-d8 (Surr)            | 90              |                 | 33 - 134 | 08/06/12 14:40 | 08/07/12 22:33 | 1       |
| Dibromofluoromethane (Surr)  | 88              |                 | 30 - 122 | 08/06/12 14:40 | 08/07/12 22:33 | 1       |

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-53395/2-A

Matrix: Solid

Analysis Batch: 53623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53395

| Analyte                               | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Acetone                               | 1000        | 1240       |               | ug/Kg |   | 124  | 16 - 156     |
| Benzene                               | 500         | 526        |               | ug/Kg |   | 105  | 70 - 117     |
| Bromodichloromethane                  | 500         | 445        |               | ug/Kg |   | 89   | 28 - 123     |
| Bromoform                             | 500         | 352        |               | ug/Kg |   | 70   | 10 - 117     |
| Bromomethane                          | 500         | 770        | *             | ug/Kg |   | 154  | 10 - 114     |
| 2-Butanone (MEK)                      | 1000        | 1140       |               | ug/Kg |   | 114  | 10 - 199     |
| Carbon disulfide                      | 500         | 559        |               | ug/Kg |   | 112  | 10 - 132     |
| Carbon tetrachloride                  | 500         | 497        |               | ug/Kg |   | 99   | 29 - 118     |
| Chlorobenzene                         | 500         | 512        |               | ug/Kg |   | 102  | 71 - 116     |
| Chloroethane                          | 500         | 713        | *             | ug/Kg |   | 143  | 10 - 120     |
| Chloroform                            | 500         | 490        |               | ug/Kg |   | 98   | 63 - 116     |
| Chloromethane                         | 500         | 433        |               | ug/Kg |   | 87   | 25 - 110     |
| 1,1-Dichloroethane                    | 500         | 495        |               | ug/Kg |   | 99   | 63 - 117     |
| 1,2-Dichloroethane                    | 500         | 506        |               | ug/Kg |   | 101  | 68 - 119     |
| 1,1-Dichloroethene                    | 500         | 702        |               | ug/Kg |   | 140  | 44 - 143     |
| 1,2-Dichloropropane                   | 500         | 503        |               | ug/Kg |   | 101  | 73 - 113     |
| 1,2,4-Trimethylbenzene                | 500         | 500        |               | ug/Kg |   | 100  | 62 - 133     |
| cis-1,3-Dichloropropene               | 500         | 441        |               | ug/Kg |   | 88   | 25 - 120     |
| trans-1,3-Dichloropropene             | 500         | 442        |               | ug/Kg |   | 88   | 22 - 122     |
| Ethylbenzene                          | 500         | 511        |               | ug/Kg |   | 102  | 66 - 119     |
| 2-Hexanone                            | 1000        | 953        | J             | ug/Kg |   | 95   | 43 - 130     |
| Methylene Chloride                    | 500         | 781        |               | ug/Kg |   | 156  | 27 - 172     |
| 4-Methyl-2-pentanone (MIBK)           | 1000        | 1020       | J             | ug/Kg |   | 102  | 49 - 121     |
| Styrene                               | 500         | 495        |               | ug/Kg |   | 99   | 60 - 120     |
| 1,1,2,2-Tetrachloroethane             | 500         | 516        |               | ug/Kg |   | 103  | 54 - 121     |
| Tetrachloroethene                     | 500         | 520        |               | ug/Kg |   | 104  | 58 - 131     |
| Toluene                               | 500         | 513        |               | ug/Kg |   | 103  | 66 - 123     |
| Trichloroethene                       | 500         | 513        |               | ug/Kg |   | 103  | 59 - 124     |
| 1,3,5-Trimethylbenzene                | 500         | 493        |               | ug/Kg |   | 99   | 60 - 130     |
| Vinyl chloride                        | 500         | 437        |               | ug/Kg |   | 87   | 33 - 110     |
| Xylenes, Total                        | 1500        | 1530       |               | ug/Kg |   | 102  | 68 - 119     |
| 1,1,1-Trichloroethane                 | 500         | 479        |               | ug/Kg |   | 96   | 38 - 122     |
| 1,1,2-Trichloroethane                 | 500         | 535        |               | ug/Kg |   | 107  | 74 - 114     |
| Cyclohexane                           | 500         | 296        | J             | ug/Kg |   | 59   | 40 - 120     |
| 1,2-Dibromo-3-Chloropropane           | 500         | 429        |               | ug/Kg |   | 86   | 10 - 129     |
| 1,2-Dibromoethane                     | 500         | 504        |               | ug/Kg |   | 101  | 47 - 123     |
| Dichlorodifluoromethane               | 500         | 348        |               | ug/Kg |   | 70   | 10 - 110     |
| cis-1,2-Dichloroethene                | 500         | 485        |               | ug/Kg |   | 97   | 60 - 125     |
| trans-1,2-Dichloroethene              | 500         | 575        |               | ug/Kg |   | 115  | 58 - 121     |
| Isopropylbenzene                      | 500         | 521        |               | ug/Kg |   | 104  | 61 - 123     |
| Methyl acetate                        | 500         | 793        | J             | ug/Kg |   | 159  | 44 - 173     |
| Methyl tert-butyl ether               | 500         | 604        |               | ug/Kg |   | 121  | 34 - 157     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 500         | 720        |               | ug/Kg |   | 144  | 48 - 151     |
| 1,2,4-Trichlorobenzene                | 500         | 516        |               | ug/Kg |   | 103  | 41 - 135     |
| 1,2-Dichlorobenzene                   | 500         | 492        |               | ug/Kg |   | 98   | 68 - 118     |
| 1,3-Dichlorobenzene                   | 500         | 499        |               | ug/Kg |   | 100  | 66 - 121     |
| 1,4-Dichlorobenzene                   | 500         | 482        |               | ug/Kg |   | 96   | 65 - 119     |
| Trichlorofluoromethane                | 500         | 697        |               | ug/Kg |   | 139  | 17 - 145     |
| Dibromochloromethane                  | 500         | 392        |               | ug/Kg |   | 78   | 22 - 113     |

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-53395/2-A

Matrix: Solid

Analysis Batch: 53623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53395

| Analyte           | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|-------------------|-------------|------------|---------------|-------|---|------|--------------|
| Methylcyclohexane | 500         | 461        | J             | ug/Kg |   | 92   | 41 - 133     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 95            |               | 39 - 128 |
| 4-Bromofluorobenzene (Surr)  | 92            |               | 26 - 141 |
| Toluene-d8 (Surr)            | 85            |               | 33 - 134 |
| Dibromofluoromethane (Surr)  | 88            |               | 30 - 122 |

Lab Sample ID: MB 240-54194/5

Matrix: Water

Analysis Batch: 54194

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                 | MB Result | MB Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|-----------|--------------|-----|-------|------|---|----------|----------------|---------|
| Benzene                 | 1.0       | U            | 1.0 | 0.13  | ug/L |   |          | 08/13/12 12:48 | 1       |
| 2-Methylnaphthalene     | 5.0       | U            | 5.0 | 0.47  | ug/L |   |          | 08/13/12 12:48 | 1       |
| Naphthalene             | 5.0       | U            | 5.0 | 0.24  | ug/L |   |          | 08/13/12 12:48 | 1       |
| 1,2,4-Trimethylbenzene  | 1.0       | U            | 1.0 | 0.12  | ug/L |   |          | 08/13/12 12:48 | 1       |
| Ethylbenzene            | 1.0       | U            | 1.0 | 0.17  | ug/L |   |          | 08/13/12 12:48 | 1       |
| Toluene                 | 1.0       | U            | 1.0 | 0.13  | ug/L |   |          | 08/13/12 12:48 | 1       |
| 1,3,5-Trimethylbenzene  | 1.0       | U            | 1.0 | 0.096 | ug/L |   |          | 08/13/12 12:48 | 1       |
| Xylenes, Total          | 2.0       | U            | 2.0 | 0.28  | ug/L |   |          | 08/13/12 12:48 | 1       |
| Methyl tert-butyl ether | 5.0       | U            | 5.0 | 0.17  | ug/L |   |          | 08/13/12 12:48 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 91           |              | 63 - 129 |          | 08/13/12 12:48 | 1       |
| 4-Bromofluorobenzene (Surr)  | 91           |              | 66 - 117 |          | 08/13/12 12:48 | 1       |
| Toluene-d8 (Surr)            | 89           |              | 74 - 115 |          | 08/13/12 12:48 | 1       |
| Dibromofluoromethane (Surr)  | 95           |              | 75 - 121 |          | 08/13/12 12:48 | 1       |

Lab Sample ID: LCS 240-54194/4

Matrix: Water

Analysis Batch: 54194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                 | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------|-------------|------------|---------------|------|---|------|--------------|
| Benzene                 | 10.0        | 10.2       |               | ug/L |   | 102  | 83 - 112     |
| m-Xylene & p-Xylene     | 20.0        | 20.6       |               | ug/L |   | 103  | 83 - 113     |
| o-Xylene                | 10.0        | 10.0       |               | ug/L |   | 100  | 83 - 113     |
| Naphthalene             | 10.0        | 9.70       |               | ug/L |   | 97   | 32 - 141     |
| 1,2,4-Trimethylbenzene  | 10.0        | 9.86       |               | ug/L |   | 99   | 76 - 120     |
| Ethylbenzene            | 10.0        | 10.1       |               | ug/L |   | 101  | 83 - 112     |
| Toluene                 | 10.0        | 9.61       |               | ug/L |   | 96   | 84 - 111     |
| 1,3,5-Trimethylbenzene  | 10.0        | 9.82       |               | ug/L |   | 98   | 72 - 118     |
| Xylenes, Total          | 30.0        | 30.6       |               | ug/L |   | 102  | 83 - 112     |
| Methyl tert-butyl ether | 10.0        | 9.71       |               | ug/L |   | 97   | 52 - 144     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 92            |               | 63 - 129 |
| 4-Bromofluorobenzene (Surr)  | 97            |               | 66 - 117 |
| Toluene-d8 (Surr)            | 93            |               | 74 - 115 |

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-54194/4

Matrix: Water

Analysis Batch: 54194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

|                             | LCS       | LCS       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| Dibromofluoromethane (Surr) | 103       |           | 75 - 121 |

Lab Sample ID: 240-13766-1 MS

Matrix: Water

Analysis Batch: 54194

Client Sample ID: GW-7097-080112-CB-023

Prep Type: Total/NA

|                         | Sample | Sample    | Spike | MS     | MS        |      |   | %Rec. |          |
|-------------------------|--------|-----------|-------|--------|-----------|------|---|-------|----------|
| Analyte                 | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec  | Limits   |
| Benzene                 | 1.0    | U         | 10.0  | 9.74   |           | ug/L |   | 97    | 72 - 121 |
| Ethylbenzene            | 1.0    | U         | 10.0  | 9.52   |           | ug/L |   | 95    | 75 - 116 |
| Toluene                 | 1.0    | U         | 10.0  | 9.17   |           | ug/L |   | 92    | 78 - 114 |
| Xylenes, Total          | 2.0    | U         | 30.0  | 28.6   |           | ug/L |   |       |          |
| Methyl tert-butyl ether | 5.0    | U         | 10.0  | 9.12   |           | ug/L |   | 91    | 46 - 144 |
| m-Xylene & p-Xylene     | 2.0    |           | 20.0  | 19.0   |           | ug/L |   | 95    | 75 - 117 |
| o-Xylene                | 1.0    |           | 10.0  | 9.55   |           | ug/L |   | 95    | 76 - 116 |
| 1,2,4-Trimethylbenzene  | 1.0    | U         | 10.0  | 9.34   |           | ug/L |   | 93    | 67 - 124 |
| 1,3,5-Trimethylbenzene  | 1.0    | U         | 10.0  | 9.28   |           | ug/L |   | 93    | 63 - 121 |
| Naphthalene             | 5.0    | U         | 10.0  | 9.99   |           | ug/L |   | 100   | 15 - 158 |

|                              | MS        | MS        |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 92        |           | 63 - 129 |
| 4-Bromofluorobenzene (Surr)  | 93        |           | 66 - 117 |
| Toluene-d8 (Surr)            | 89        |           | 74 - 115 |
| Dibromofluoromethane (Surr)  | 105       |           | 75 - 121 |

Lab Sample ID: 240-13766-1 MSD

Matrix: Water

Analysis Batch: 54194

Client Sample ID: GW-7097-080112-CB-023

Prep Type: Total/NA

|                         | Sample | Sample    | Spike | MSD    | MSD       |      |   | %Rec. |          | RPD |       |
|-------------------------|--------|-----------|-------|--------|-----------|------|---|-------|----------|-----|-------|
| Analyte                 | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec  | Limits   | RPD | Limit |
| Benzene                 | 1.0    | U         | 10.0  | 10.4   |           | ug/L |   | 104   | 72 - 121 | 6   | 30    |
| Ethylbenzene            | 1.0    | U         | 10.0  | 10.4   |           | ug/L |   | 104   | 75 - 116 | 9   | 30    |
| Toluene                 | 1.0    | U         | 10.0  | 9.91   |           | ug/L |   | 99    | 78 - 114 | 8   | 30    |
| Xylenes, Total          | 2.0    | U         | 30.0  | 31.3   |           | ug/L |   |       |          |     |       |
| Methyl tert-butyl ether | 5.0    | U         | 10.0  | 9.74   |           | ug/L |   | 97    | 46 - 144 | 6   | 30    |
| m-Xylene & p-Xylene     | 2.0    |           | 20.0  | 20.9   |           | ug/L |   | 105   | 75 - 117 | 9   | 30    |
| o-Xylene                | 1.0    |           | 10.0  | 10.4   |           | ug/L |   | 104   | 76 - 116 | 9   | 30    |
| 1,2,4-Trimethylbenzene  | 1.0    | U         | 10.0  | 10.0   |           | ug/L |   | 100   | 67 - 124 | 7   | 30    |
| 1,3,5-Trimethylbenzene  | 1.0    | U         | 10.0  | 9.99   |           | ug/L |   | 100   | 63 - 121 | 7   | 30    |
| Naphthalene             | 5.0    | U         | 10.0  | 10.9   |           | ug/L |   | 109   | 15 - 158 | 8   | 30    |

|                              | MSD       | MSD       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 63 - 129 |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 66 - 117 |
| Toluene-d8 (Surr)            | 97        |           | 74 - 115 |
| Dibromofluoromethane (Surr)  | 108       |           | 75 - 121 |

## Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                  |
|-------------------|------------------------|------------------------------------------------|-----------------|-----------------|------------------|
|                   |                        | 12DCE<br>(39-128)                              | BFB<br>(26-141) | TOL<br>(33-134) | DBFM<br>(30-122) |
| 240-13660-1       | SO-7097-073012-CB-007  | 106                                            | 98              | 96              | 93               |
| 240-13660-2       | SO-7097-073012-CB-008  | 104                                            | 98              | 96              | 92               |
| 240-13660-3       | SO-7097-073012-CB-009  | 103                                            | 96              | 92              | 93               |
| 240-13660-4       | SO-7097-073012-CB-010  | 116                                            | 107             | 104             | 103              |
| 240-13660-5       | TB -7097-073012-CB-011 | 113                                            | 104             | 101             | 100              |
| 240-13729-1       | SO-7097-073112-CB-012  | 105                                            | 94              | 94              | 91               |
| 240-13729-2       | SO-7097-073112-CB-013  | 101                                            | 94              | 90              | 87               |
| LCS 240-53354/2-A | Lab Control Sample     | 98                                             | 93              | 87              | 90               |
| LCS 240-53395/2-A | Lab Control Sample     | 95                                             | 92              | 85              | 88               |
| MB 240-53354/1-A  | Method Blank           | 101                                            | 90              | 88              | 88               |
| MB 240-53395/1-A  | Method Blank           | 97                                             | 94              | 90              | 88               |

#### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID   | Client Sample ID      | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                  |
|-----------------|-----------------------|------------------------------------------------|-----------------|-----------------|------------------|
|                 |                       | 12DCE<br>(63-129)                              | BFB<br>(66-117) | TOL<br>(74-115) | DBFM<br>(75-121) |
| 240-13766-1     | GW-7097-080112-CB-023 | 97                                             | 92              | 91              | 104              |
| 240-13766-1 MS  | GW-7097-080112-CB-023 | 92                                             | 93              | 89              | 105              |
| 240-13766-1 MSD | GW-7097-080112-CB-023 | 97                                             | 101             | 97              | 108              |
| 240-13766-2     | GW-7097-080112-CB-024 | 97                                             | 96              | 95              | 105              |
| 240-13766-3     | TB-7097-080112-CB-025 | 98                                             | 92              | 92              | 103              |
| LCS 240-54194/4 | Lab Control Sample    | 92                                             | 97              | 93              | 103              |
| MB 240-54194/5  | Method Blank          | 91                                             | 91              | 89              | 95               |

#### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

**Client Sample ID: SO-7097-073012-CB-007**

**Lab Sample ID: 240-13660-1**

**Date Collected: 07/30/12 14:30**

**Matrix: Solid**

**Date Received: 07/31/12 09:30**

**Percent Solids: 97.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 53395        | 08/06/12 14:40       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 53623        | 08/07/12 22:57       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 52965        | 08/02/12 11:13       | TH      | TAL NC |

**Client Sample ID: SO-7097-073012-CB-008**

**Lab Sample ID: 240-13660-2**

**Date Collected: 07/30/12 14:50**

**Matrix: Solid**

**Date Received: 07/31/12 09:30**

**Percent Solids: 95.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 53395        | 08/06/12 14:40       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 53623        | 08/07/12 23:22       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 52965        | 08/02/12 11:13       | TH      | TAL NC |

**Client Sample ID: SO-7097-073012-CB-009**

**Lab Sample ID: 240-13660-3**

**Date Collected: 07/30/12 13:10**

**Matrix: Solid**

**Date Received: 07/31/12 09:30**

**Percent Solids: 94.9**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 53395        | 08/06/12 14:40       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 53623        | 08/07/12 23:47       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 52965        | 08/02/12 11:13       | TH      | TAL NC |

**Client Sample ID: SO-7097-073012-CB-010**

**Lab Sample ID: 240-13660-4**

**Date Collected: 07/30/12 13:20**

**Matrix: Solid**

**Date Received: 07/31/12 09:30**

**Percent Solids: 94.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 53395        | 08/06/12 14:40       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 53623        | 08/08/12 00:12       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 52965        | 08/02/12 11:13       | TH      | TAL NC |

**Client Sample ID: TB -7097-073012-CB-011**

**Lab Sample ID: 240-13660-5**

**Date Collected: 07/30/12 00:00**

**Matrix: Solid**

**Date Received: 07/31/12 09:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 53395        | 08/06/12 14:40       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 53623        | 08/08/12 00:37       | TL      | TAL NC |

## Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

**Client Sample ID: SO-7097-073112-CB-012**

**Lab Sample ID: 240-13729-1**

Date Collected: 07/31/12 09:25

Matrix: Solid

Date Received: 08/01/12 09:30

Percent Solids: 94.8

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 53354        | 08/06/12 11:06       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 53777        | 08/09/12 04:10       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 52965        | 08/02/12 11:13       | TH      | TAL NC |

**Client Sample ID: SO-7097-073112-CB-013**

**Lab Sample ID: 240-13729-2**

Date Collected: 07/31/12 10:00

Matrix: Solid

Date Received: 08/01/12 09:30

Percent Solids: 94.4

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 53354        | 08/06/12 11:06       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 53777        | 08/09/12 04:35       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 52965        | 08/02/12 11:13       | TH      | TAL NC |

**Client Sample ID: GW-7097-080112-CB-023**

**Lab Sample ID: 240-13766-1**

Date Collected: 08/01/12 10:45

Matrix: Water

Date Received: 08/02/12 09:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 54194        | 08/13/12 20:16       | LW      | TAL NC |

**Client Sample ID: GW-7097-080112-CB-024**

**Lab Sample ID: 240-13766-2**

Date Collected: 08/01/12 10:55

Matrix: Water

Date Received: 08/02/12 09:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 54194        | 08/13/12 18:24       | LW      | TAL NC |

**Client Sample ID: TB-7097-080112-CB-025**

**Lab Sample ID: 240-13766-3**

Date Collected: 08/01/12 00:00

Matrix: Water

Date Received: 08/02/12 09:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 54194        | 08/13/12 18:46       | LW      | TAL NC |

### Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13660-1

### Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority         | Program       | EPA Region | Certification ID | Expiration Date |
|-------------------|---------------|------------|------------------|-----------------|
| California        | NELAC         | 9          | 01144CA          | 06-30-13        |
| Connecticut       | State Program | 1          | PH-0590          | 12-31-13        |
| Florida           | NELAC         | 4          | E87225           | 06-30-13        |
| Georgia           | State Program | 4          | N/A              | 06-30-13        |
| Illinois          | NELAC         | 5          | 200004           | 07-31-13        |
| Kansas            | NELAC         | 7          | E-10336          | 01-31-13        |
| Kentucky          | State Program | 4          | 58               | 11-16-12        |
| L-A-B             | DoD ELAP      |            | L2315            | 02-28-13        |
| Minnesota         | NELAC         | 5          | 039-999-348      | 12-31-12        |
| Nevada            | State Program | 9          | OH-000482008A    | 07-31-12        |
| New Jersey        | NELAC         | 2          | OH001            | 06-30-13        |
| New York          | NELAC         | 2          | 10975            | 04-01-13        |
| Ohio VAP          | State Program | 5          | CL0024           | 01-19-14        |
| Pennsylvania      | NELAC         | 3          | 68-00340         | 08-31-12        |
| USDA              | Federal       |            | P330-11-00328    | 08-26-14        |
| Virginia          | NELAC         | 3          | 460175           | 09-14-12        |
| Washington        | State Program | 10         | C971             | 01-12-13        |
| West Virginia DEP | State Program | 3          | 210              | 12-31-12        |
| Wisconsin         | State Program | 5          | 999518190        | 08-31-12        |



CONESTOGA-ROVERS  
& ASSOCIATES

# CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO: PL-08995

PAGE 2 OF 2

(See Reverse Side for Instructions)

|                                                                                    |  |                                                   |  |                                                         |  |                                    |  |
|------------------------------------------------------------------------------------|--|---------------------------------------------------|--|---------------------------------------------------------|--|------------------------------------|--|
| Project No/Phase/Task Code:<br>007097-705412                                       |  | Laboratory Name:<br>Test America                  |  | Lab Location:<br>North Canton, OH                       |  | SSOW ID:<br>13080TOS-002           |  |
| Project Name:<br>Racer-PCC West                                                    |  | Lab Contact:<br>Denise Hacker                     |  | Lab Quote No:<br>260-167                                |  | Cooler No:<br>260-167              |  |
| Project Location:<br>Pontiac, MI                                                   |  | SAMPLE TYPE:<br>CONTAINER QUANTITY & PRESERVATION |  | ANALYSIS REQUESTED<br>(See Back of COC for Definitions) |  | Carrier:<br>FedEx                  |  |
| Chemistry Contact:<br>Paul Wiseman                                                 |  | Matrix Code<br>(see back of COC)                  |  | Unpreserved                                             |  | Airbill No:<br>8709 8505 0393      |  |
| Sampler(s):<br>C. Bondy                                                            |  | Grab (g) or Comp (c)                              |  | Hydrochloric Acid (HCl)                                 |  | Date Shipped:<br>7/30/12           |  |
| SAMPLE IDENTIFICATION<br>(Containers for each sample may be combined on this line) |  | DATE<br>(mm/dd/yyyy)                              |  | TIME<br>(hh:mm)                                         |  | COMMENTS/<br>SPECIAL INSTRUCTIONS: |  |
| 1 50-7097-073012-CB-007                                                            |  | 7/30/12                                           |  | 1430                                                    |  | MS/MSD Request                     |  |
| 2 1-008                                                                            |  | 7/30/12                                           |  | 1450                                                    |  |                                    |  |
| 3 1-009                                                                            |  | 7/30/12                                           |  | 1310                                                    |  |                                    |  |
| 4 1-010                                                                            |  | 7/30/12                                           |  | 1320                                                    |  |                                    |  |
| 5 1-011                                                                            |  | 7/30/12                                           |  | 1400                                                    |  |                                    |  |
| 6 1-012                                                                            |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 7 1-013                                                                            |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 8 1-014                                                                            |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 9 1-015                                                                            |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 10 1-016                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 11 1-017                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 12 1-018                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 13 1-019                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 14 1-020                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 15 1-021                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 16 1-022                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 17 1-023                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 18 1-024                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 19 1-025                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 20 1-026                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 21 1-027                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 22 1-028                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 23 1-029                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 24 1-030                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 25 1-031                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 26 1-032                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 27 1-033                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 28 1-034                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 29 1-035                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 30 1-036                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 31 1-037                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 32 1-038                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 33 1-039                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 34 1-040                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 35 1-041                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 36 1-042                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 37 1-043                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 38 1-044                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 39 1-045                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 40 1-046                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 41 1-047                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 42 1-048                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 43 1-049                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 44 1-050                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 45 1-051                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 46 1-052                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 47 1-053                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 48 1-054                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 49 1-055                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 50 1-056                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 51 1-057                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 52 1-058                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 53 1-059                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 54 1-060                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 55 1-061                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 56 1-062                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 57 1-063                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 58 1-064                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 59 1-065                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 60 1-066                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 61 1-067                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 62 1-068                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 63 1-069                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 64 1-070                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 65 1-071                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 66 1-072                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 67 1-073                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 68 1-074                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 69 1-075                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 70 1-076                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 71 1-077                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 72 1-078                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 73 1-079                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 74 1-080                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 75 1-081                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 76 1-082                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 77 1-083                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 78 1-084                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 79 1-085                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 80 1-086                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 81 1-087                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 82 1-088                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 83 1-089                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 84 1-090                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 85 1-091                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 86 1-092                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 87 1-093                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 88 1-094                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 89 1-095                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 90 1-096                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 91 1-097                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 92 1-098                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 93 1-099                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 94 1-100                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 95 1-101                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 96 1-102                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 97 1-103                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 98 1-104                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 99 1-105                                                                           |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 100 1-106                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 101 1-107                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 102 1-108                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 103 1-109                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 104 1-110                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 105 1-111                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 106 1-112                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 107 1-113                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 108 1-114                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 109 1-115                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 110 1-116                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 111 1-117                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 112 1-118                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 113 1-119                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 114 1-120                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 115 1-121                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 116 1-122                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 117 1-123                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 118 1-124                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 119 1-125                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 120 1-126                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 121 1-127                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 122 1-128                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 123 1-129                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 124 1-130                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 125 1-131                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 126 1-132                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 127 1-133                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 128 1-134                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 129 1-135                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 130 1-136                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 131 1-137                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 132 1-138                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 133 1-139                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 134 1-140                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 135 1-141                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 136 1-142                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 137 1-143                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 138 1-144                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 139 1-145                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 140 1-146                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 141 1-147                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 142 1-148                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 143 1-149                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 144 1-150                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 145 1-151                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 146 1-152                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 147 1-153                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 148 1-154                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 149 1-155                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 150 1-156                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 151 1-157                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 152 1-158                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 153 1-159                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 154 1-160                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 155 1-161                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 156 1-162                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 157 1-163                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 158 1-164                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 159 1-165                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 160 1-166                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 161 1-167                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 162 1-168                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 163 1-169                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 164 1-170                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 165 1-171                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 166 1-172                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 167 1-173                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 168 1-174                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 169 1-175                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 170 1-176                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 171 1-177                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 172 1-178                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 173 1-179                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 174 1-180                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 175 1-181                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 176 1-182                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 177 1-183                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 178 1-184                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 179 1-185                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 180 1-186                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 181 1-187                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 182 1-188                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 183 1-189                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 184 1-190                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 185 1-191                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 186 1-192                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 187 1-193                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 188 1-194                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 189 1-195                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 190 1-196                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 191 1-197                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 192 1-198                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 193 1-199                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 194 1-200                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 195 1-201                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 196 1-202                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 197 1-203                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 198 1-204                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 199 1-205                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 200 1-206                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 201 1-207                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 202 1-208                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 203 1-209                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 204 1-210                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 205 1-211                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 206 1-212                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 207 1-213                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 208 1-214                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 209 1-215                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 210 1-216                                                                          |  | 7/30/12                                           |  | 1430                                                    |  |                                    |  |
| 211 1-217                                                                          |  | 7/30/1                                            |  |                                                         |  |                                    |  |

## TestAmerica North Canton Sample Receipt Form/Narrative

Login # : 13660

Client CRA

Site Name Racer

By: Mike H. L.  
(Signature)

Cooler Received on 7/31/12

Opened on 7/31/12

FedEx: 1<sup>st</sup> Grd ☒ UPS ☐ FAS ☐ Steison ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐TestAmerica Cooler # 260-167 Foam Box Client Cooler Box Other ☐Packing material used: Bubble Wrap ☒ Foam ☐ Plastic Bag ☐ None ☐ Other ☐COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

## 1. Cooler temperature upon receipt

IR GUN# 1 (CF 0°C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 4G (CF -1°C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 5G (CF -1°C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 8 (CF 0°C) Observed Sample Temp. 1.8 °C Corrected Sample Temp. 1.8 °C

☐ Multiple  
on Back

## 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity \_\_\_\_\_

Yes ☒ No ☐

-Were custody seals on the outside of the cooler(s) signed &amp; dated?

Yes ☐ No ☒ NA

-Were custody seals on the bottle(s)?

Yes ☒ No ☐

## 3. Shippers' packing slip attached to the cooler(s)?

☒ Yes ☐ No

## 4. Did custody papers accompany the sample(s)?

☒ Yes ☐ No

## 5. Were the custody papers relinquished &amp; signed in the appropriate place?

☒ Yes ☐ No

## 6. Did all bottles arrive in good condition (Unbroken)?

☒ Yes ☐ No

## 7. Could all bottle labels be reconciled with the COC?

☒ Yes ☐ No

## 8. Were correct bottle(s) used for the test(s) indicated?

☒ Yes ☐ No

## 9. Sufficient quantity received to perform indicated analyses?

☒ Yes ☐ No

## 10. Were sample(s) at the correct pH upon receipt?

Yes ☐ No ☒ NA

## 11. Were VOAs on the COC?

Yes ☒ No ☐

## 12. Were air bubbles &gt;6 mm in any VOA vials?

Yes ☐ No ☒ NA

## 13. Was a trip blank present in the cooler(s)?

☒ Yes ☐ NoContacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other  
Concerning \_\_\_\_\_

## 14. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES

## 15. SAMPLE CONDITION

Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.

Sample(s) \_\_\_\_\_ were received in a broken container.

Sample(s) \_\_\_\_\_ were received with bubble &gt;6 mm in diameter. (Notify PM)





**CONESTOGA-ROVERS  
& ASSOCIATES**

# CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO. **PL- 09810**

PAGE **1** OF **3**

(See Reverse Side for Instructions)

|                                                                                   |  |                                           |  |                                          |  |                                      |  |
|-----------------------------------------------------------------------------------|--|-------------------------------------------|--|------------------------------------------|--|--------------------------------------|--|
| Project No/Phase/Task Code:<br><b>007097-105412</b>                               |  | Laboratory Name:<br><b>Test America</b>   |  | Lab Location:<br><b>North Canton, OH</b> |  | SSOW ID:<br><b>1308CROS-002</b>      |  |
| Project Name:<br><b>Racer - PCC West</b>                                          |  | Lab Contact:<br><b>Denise Heckler</b>     |  | Lab Quote No:                            |  | Cooler No:<br><b>241325</b>          |  |
| Project Location:<br><b>Pontiac, MI</b>                                           |  | Chemistry Contact:<br><b>Paul Wiseman</b> |  | Carrier:<br><b>FedEx</b>                 |  | Airbill No:<br><b>8709 8505 6408</b> |  |
| Sampler(s):<br><b>C. Bondy</b>                                                    |  | Matrix Code<br>(see back of COC)          |  | Grab (G) or Comp (C)                     |  | Unpreserved                          |  |
| SAMPLE IDENTIFICATION<br>(Containers for each sample may be combined on one line) |  | DATE<br>(mm/dd/yyyy)                      |  | TIME<br>(hh:mm)                          |  | MS/MSD Request                       |  |
| 1 <b>SO-7097-073112-CB-012</b>                                                    |  | <b>7/31/12</b>                            |  | <b>925</b>                               |  | <b>1</b>                             |  |
| 2 <b>↓ ↓ ↓ -013</b>                                                               |  | <b>↓</b>                                  |  | <b>1000</b>                              |  | <b>1</b>                             |  |
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## TestAmerica North Canton Sample Receipt Form/Narrative

Login # : 13729Client CRA Site Name \_\_\_\_\_By: [Signature]  
(Signature)Cooler Received on 8-1-12 Opened on 8-1-12FedEx: 1<sup>st</sup> Grd ☒ Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other \_\_\_\_\_TestAmerica Cooler # \_\_\_\_\_ Foam Box ☒ Client Cooler Box Other \_\_\_\_\_Packing material used: ☒ Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_COOLANT: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Water ☐ None

## 1. Cooler temperature upon receipt

IR GUN# 1 (CF 0°C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 4G (CF -1°C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 5G (CF -1°C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 8 (CF 0°C) Observed Sample Temp. 2.6 °C Corrected Sample Temp. 2.6 °C☐ Multiple  
on Back

## 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity \_\_\_\_\_

Yes ☒ No ☐

-Were custody seals on the outside of the cooler(s) signed &amp; dated?

Yes No NA

-Were custody seals on the bottle(s)?

Yes No ☐

## 3. Shippers' packing slip attached to the cooler(s)?

☒ Yes No ☐

## 4. Did custody papers accompany the sample(s)?

☒ Yes No ☐

## 5. Were the custody papers relinquished &amp; signed in the appropriate place?

☒ Yes No ☐

## 6. Did all bottles arrive in good condition (Unbroken)?

☒ Yes No ☐

## 7. Could all bottle labels be reconciled with the COC?

☒ Yes No ☐

## 8. Were correct bottle(s) used for the test(s) indicated?

☒ Yes No ☐

## 9. Sufficient quantity received to perform indicated analyses?

☒ Yes No ☐

## 10. Were sample(s) at the correct pH upon receipt?

Yes No NA

## 11. Were VOAs on the COC?

Yes ☒ No ☐

## 12. Were air bubbles &gt;6 mm in any VOA vials?

Yes No NA

## 13. Was a trip blank present in the cooler(s)?

☒ Yes No ☐

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other

Concerning \_\_\_\_\_

## 14. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES

## 15. SAMPLE CONDITION

Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.

Sample(s) \_\_\_\_\_ were received in a broken container.

Sample(s) \_\_\_\_\_ were received with bubble &gt;6 mm in diameter. (Notify PM)

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**CONESTOGA-ROVERS  
& ASSOCIATES**

# CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO. **PL-09109**

PAGE **1** OF **1**

(See Reverse Side for Instructions)

|                                                                                   |  |                                         |  |                                          |  |                                      |  |
|-----------------------------------------------------------------------------------|--|-----------------------------------------|--|------------------------------------------|--|--------------------------------------|--|
| Project No/Phase/Task Code:<br><b>007097-TOS412</b>                               |  | Laboratory Name:<br><b>Test America</b> |  | Lab Location:<br><b>North Canton, OH</b> |  | SSOW ID:<br><b>13080TOS-002</b>      |  |
| Project Name:<br><b>Racer-PCC West</b>                                            |  | Lab Contact:<br><b>Denise Heckler</b>   |  | Lab Quote No:                            |  | Carrier:<br><b>RedEx</b>             |  |
| Project Location:<br><b>Pontiac, MI</b>                                           |  | SAMPLE TYPE                             |  | CONTAINER QUANTITY & PRESERVATION        |  | Airbill No:<br><b>8709 8505 0382</b> |  |
| Chemistry Contact:<br><b>Paul Wiseman</b>                                         |  | Matrix Code                             |  | PRESERVATION                             |  | Date Shipped:<br><b>8/11/12</b>      |  |
| Sampler(s):<br><b>C. Bondy</b>                                                    |  | (see back of COC)                       |  | Unpreserved                              |  | COMMENTS/<br>SPECIAL INSTRUCTIONS:   |  |
| SAMPLE IDENTIFICATION<br>(Containers for each sample may be combined on one line) |  | DATE<br>(mm/dd/yyyy)                    |  | TIME<br>(hh:mm)                          |  | MS/MSD Request                       |  |
| 1 GW-7097-08012-CB-023                                                            |  | 8/11/12                                 |  | 1045                                     |  |                                      |  |
| 2 ↓ 1-024                                                                         |  | ↓                                       |  | 1055                                     |  |                                      |  |
| 3 TB ↓ ↓-025                                                                      |  | ↓                                       |  | ---                                      |  |                                      |  |
| 4                                                                                 |  |                                         |  |                                          |  |                                      |  |
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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------|--|------------------------------|--|
| TAT Required in business days (use separate COCs for different TATs):                                                                                                                                     |  | Total Number of Containers: <b>13</b> |  | Notes/ Special Requirements: |  |
| <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input checked="" type="checkbox"/> 2 Week <input type="checkbox"/> Other: |  | All Samples in Cooler must be on COC  |  | <b>BATCH COMPLETE</b>        |  |
| RELINQUISHED BY:<br><b>e Bondy</b>                                                                                                                                                                        |  | RECEIVED BY:<br><b>Matthew J. ...</b> |  | DATE:<br><b>8/11/12</b>      |  |
| COMPANY:<br><b>CRA</b>                                                                                                                                                                                    |  | COMPANY:                              |  | TIME:<br><b>0900</b>         |  |

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDEN ROD - Sampling Crew

CRA Form: COC-10A (20110804)

## TestAmerica North Canton Sample Receipt Form/Narrative

Login # : 13766

Client

CRA

Site Name

RACER

By:

Mathew

(Signature)

Cooler Received on

2 AUG 2012

Opened on

2 AUG 2012

FedEx: 1<sup>st</sup> Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

## 1. Cooler temperature upon receipt

IR GUN# 1 (CF 0°C) Observed Sample Temp. °C Corrected Sample Temp. °C

IR GUN# 4G (CF -1°C) Observed Sample Temp. 4.2 °C Corrected Sample Temp. 3.2 °C

IR GUN# 5G (CF -1°C) Observed Sample Temp. °C Corrected Sample Temp. °C

IR GUN# 8 (CF 0°C) Observed Sample Temp. °C Corrected Sample Temp. °C

☐ Multiple  
on Back

## 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity

Yes No

-Were custody seals on the outside of the cooler(s) signed &amp; dated?

Yes No NA

-Were custody seals on the bottle(s)?

Yes No

## 3. Shippers' packing slip attached to the cooler(s)?

Yes No

## 4. Did custody papers accompany the sample(s)?

Yes No

## 5. Were the custody papers relinquished &amp; signed in the appropriate place?

Yes No

## 6. Did all bottles arrive in good condition (Unbroken)?

Yes No

## 7. Could all bottle labels be reconciled with the COC?

Yes No

## 8. Were correct bottle(s) used for the test(s) indicated?

Yes No

## 9. Sufficient quantity received to perform indicated analyses?

Yes No

## 10. Were sample(s) at the correct pH upon receipt?

Yes No NA

## 11. Were VOAs on the COC?

Yes No

## 12. Were air bubbles &gt;6 mm in any VOA vials?

Yes No NA

## 13. Was a trip blank present in the cooler(s)?

Yes No

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other  
Concerning \_\_\_\_\_

## 14. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES

## 15. SAMPLE CONDITION

Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.

Sample(s) \_\_\_\_\_ were received in a broken container.

Sample(s) \_\_\_\_\_ were received with bubble &gt;6 mm in diameter. (Notify PM)

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## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-13660-1

Login Number: 13660

List Source: TestAmerica Canton

List Number: 1

Creator: Maddux, Ann

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | N/A    |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the sample IDs on the containers and the COC. | True   |         |
| Samples are received within Holding Time.                                        | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |         |
| Multiphasic samples are not present.                                             | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Residual Chlorine Checked.                                                       | N/A    |         |

## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-13660-1

Login Number: 13729

List Source: TestAmerica Canton

List Number: 1

Creator: Livengood, Chris

| Question                                                                         | Answer | Comment                      |
|----------------------------------------------------------------------------------|--------|------------------------------|
| Radioactivity either was not measured or, if measured, is at or below background | N/A    | REFER TO COOLER RECEIPT FORM |
| The cooler's custody seal, if present, is intact.                                | N/A    |                              |
| The cooler or samples do not appear to have been compromised or tampered with.   | N/A    |                              |
| Samples were received on ice.                                                    | N/A    |                              |
| Cooler Temperature is acceptable.                                                | N/A    |                              |
| Cooler Temperature is recorded.                                                  | N/A    |                              |
| COC is present.                                                                  | N/A    |                              |
| COC is filled out in ink and legible.                                            | N/A    |                              |
| COC is filled out with all pertinent information.                                | N/A    |                              |
| Is the Field Sampler's name present on COC?                                      | N/A    |                              |
| There are no discrepancies between the sample IDs on the containers and the COC. | N/A    |                              |
| Samples are received within Holding Time.                                        | N/A    |                              |
| Sample containers have legible labels.                                           | N/A    |                              |
| Containers are not broken or leaking.                                            | N/A    |                              |
| Sample collection date/times are provided.                                       | N/A    |                              |
| Appropriate sample containers are used.                                          | N/A    |                              |
| Sample bottles are completely filled.                                            | N/A    |                              |
| Sample Preservation Verified.                                                    | N/A    |                              |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | N/A    |                              |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | N/A    |                              |
| Multiphasic samples are not present.                                             | N/A    |                              |
| Samples do not require splitting or compositing.                                 | N/A    |                              |
| Residual Chlorine Checked.                                                       | N/A    |                              |

## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-13660-1

Login Number: 13766

List Source: TestAmerica Canton

List Number: 1

Creator: Livengood, Chris

| Question                                                                         | Answer | Comment                      |
|----------------------------------------------------------------------------------|--------|------------------------------|
| Radioactivity either was not measured or, if measured, is at or below background | N/A    | REFER TO COOLER RECEIPT FORM |
| The cooler's custody seal, if present, is intact.                                | N/A    |                              |
| The cooler or samples do not appear to have been compromised or tampered with.   | N/A    |                              |
| Samples were received on ice.                                                    | N/A    |                              |
| Cooler Temperature is acceptable.                                                | N/A    |                              |
| Cooler Temperature is recorded.                                                  | N/A    |                              |
| COC is present.                                                                  | N/A    |                              |
| COC is filled out in ink and legible.                                            | N/A    |                              |
| COC is filled out with all pertinent information.                                | N/A    |                              |
| Is the Field Sampler's name present on COC?                                      | N/A    |                              |
| There are no discrepancies between the sample IDs on the containers and the COC. | N/A    |                              |
| Samples are received within Holding Time.                                        | N/A    |                              |
| Sample containers have legible labels.                                           | N/A    |                              |
| Containers are not broken or leaking.                                            | N/A    |                              |
| Sample collection date/times are provided.                                       | N/A    |                              |
| Appropriate sample containers are used.                                          | N/A    |                              |
| Sample bottles are completely filled.                                            | N/A    |                              |
| Sample Preservation Verified.                                                    | N/A    |                              |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | N/A    |                              |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | N/A    |                              |
| Multiphasic samples are not present.                                             | N/A    |                              |
| Samples do not require splitting or compositing.                                 | N/A    |                              |
| Residual Chlorine Checked.                                                       | N/A    |                              |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-13731-1

Client Project/Site: 7097-T05, RACER PCC

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Mr. Paul Wiseman



Authorized for release by:

8/10/2012 10:19:54 AM

Nathan Pietras

Project Manager II

[nathan.pietras@testamericainc.com](mailto:nathan.pietras@testamericainc.com)

Designee for

Denise Heckler

Project Manager II

[denise.heckler@testamericainc.com](mailto:denise.heckler@testamericainc.com)

### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

**Job ID: 240-13731-1**

**Laboratory: TestAmerica Canton**

**Narrative**

### CASE NARRATIVE

**Client: Conestoga-Rovers & Associates, Inc.**

**Project: 7097-T05, RACER PCC**

**Report Number: 240-13731-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

#### **RECEIPT**

The samples were received on 08/01/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.6 C.

#### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples SO-7097-073112-CB-018 (240-13731-1), SO-7097-073112-CB-019 (240-13731-2), SO-7097-073112-CB-021 (240-13731-3) and TB-7097-073112-CB-022 (240-13731-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 08/06/2012 and analyzed on 08/08/2012 and 08/09/2012.

Methylene Chloride was detected in method blank MB 240-53354/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

1,2-Dichloroethane-d4 (Surr), 4-Bromofluorobenzene (Surr), Dibromofluoromethane (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria low for SO-7097-073112-CB-019 (240-13731-2).

Bromomethane and Chloroethane failed the recovery criteria high for LCS 240-53354/2-A.

Methyl acetate failed the recovery criteria high for the MSD of sample 240-13658-1 in batch 240-53777. 1,2-Dibromo-3-Chloropropane,

## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

### Job ID: 240-13731-1 (Continued)

#### Laboratory: TestAmerica Canton (Continued)

Chloroethane and Cyclohexane exceeded the rpd limit.

Refer to the QC report for details.

Sample SO-7097-073112-CB-019 (240-13731-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8260B: The laboratory control sample (LCS) for batch 53354 exceeded control limits for the following analyte(s): chloroethane, and bromomethane. These analytes have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The results have been reported and qualified.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

#### PERCENT SOLIDS

Samples SO-7097-073112-CB-018 (240-13731-1), SO-7097-073112-CB-019 (240-13731-2) and SO-7097-073112-CB-021 (240-13731-3) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 08/02/2012.

Percent Moisture exceeded the rpd limit for the duplicate of sample 240-13660-1. Percent Moisture exceeded the rpd limit for the duplicate of sample 240-13729-1. Refer to the QC report for details.

No other difficulties were encountered during the % solids analyses.

All other quality control parameters were within the acceptance limits.

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| *         | LCS or LCSD exceeds the control limits                                                                         |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| X         | Surrogate is outside control limits                                                                            |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                |
|----------------|------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                 |
| %R             | Percent Recovery                                                                                           |
| CNF            | Contains no Free Liquid                                                                                    |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL            | Estimated Detection Limit                                                                                  |
| EPA            | United States Environmental Protection Agency                                                              |
| MDL            | Method Detection Limit                                                                                     |
| ML             | Minimum Level (Dioxin)                                                                                     |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)                                               |
| PQL            | Practical Quantitation Limit                                                                               |
| QC             | Quality Control                                                                                            |
| RL             | Reporting Limit                                                                                            |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                       |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                        |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                      |

## Sample Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

| Lab Sample ID | Client Sample ID      | Matrix | Collected      | Received       |
|---------------|-----------------------|--------|----------------|----------------|
| 240-13731-1   | SO-7097-073112-CB-018 | Solid  | 07/31/12 12:15 | 08/01/12 09:30 |
| 240-13731-2   | SO-7097-073112-CB-019 | Solid  | 07/31/12 13:00 | 08/01/12 09:30 |
| 240-13731-3   | SO-7097-073112-CB-021 | Solid  | 07/31/12 14:25 | 08/01/12 09:30 |
| 240-13731-4   | TB-7097-073112-CB-022 | Solid  | 07/31/12 00:00 | 08/01/12 09:30 |

## Detection Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

### Client Sample ID: SO-7097-073112-CB-018

Lab Sample ID: 240-13731-1

| Analyte                | Result | Qualifier | RL | MDL | Unit  | Dil | Fac | D | Method | Prep Type |
|------------------------|--------|-----------|----|-----|-------|-----|-----|---|--------|-----------|
| Tetrachloroethene      | 1100   |           | 43 | 13  | ug/Kg | 1   |     | ☼ | 8260B  | Total/NA  |
| Trichloroethene        | 2700   |           | 43 | 11  | ug/Kg | 1   |     | ☼ | 8260B  | Total/NA  |
| 1,1,1-Trichloroethane  | 1800   |           | 43 | 23  | ug/Kg | 1   |     | ☼ | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 23     | J         | 43 | 7.5 | ug/Kg | 1   |     | ☼ | 8260B  | Total/NA  |

### Client Sample ID: SO-7097-073112-CB-019

Lab Sample ID: 240-13731-2

| Analyte                | Result | Qualifier | RL    | MDL | Unit  | Dil | Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|-----|-------|-----|-----|---|--------|-----------|
| 1,1-Dichloroethane     | 11000  |           | 440   | 190 | ug/Kg | 10  |     | ☼ | 8260B  | Total/NA  |
| 1,2,4-Trimethylbenzene | 180    | J         | 870   | 55  | ug/Kg | 10  |     | ☼ | 8260B  | Total/NA  |
| Trichloroethene        | 4600   |           | 440   | 110 | ug/Kg | 10  |     | ☼ | 8260B  | Total/NA  |
| Xylenes, Total         | 130    | J         | 1300  | 89  | ug/Kg | 10  |     | ☼ | 8260B  | Total/NA  |
| 1,1,1-Trichloroethane  | 25000  |           | 440   | 230 | ug/Kg | 10  |     | ☼ | 8260B  | Total/NA  |
| Methylcyclohexane      | 350    | J         | 10000 | 130 | ug/Kg | 10  |     | ☼ | 8260B  | Total/NA  |

### Client Sample ID: SO-7097-073112-CB-021

Lab Sample ID: 240-13731-3

No Detections

### Client Sample ID: TB-7097-073112-CB-022

Lab Sample ID: 240-13731-4

No Detections

## Method Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

| Method   | Method Description                 | Protocol | Laboratory |
|----------|------------------------------------|----------|------------|
| 8260B    | Volatile Organic Compounds (GC/MS) | SW846    | TAL NC     |
| Moisture | Percent Moisture                   | EPA      | TAL NC     |

### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SO-7097-073112-CB-018

Date Collected: 07/31/12 12:15

Date Received: 08/01/12 09:30

Lab Sample ID: 240-13731-1

Matrix: Solid

Percent Solids: 85.7

| Analyte                               | Result      | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|-------------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 650         | U         | 650  | 180 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Benzene                               | 43          | U         | 43   | 13  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Bromodichloromethane                  | 87          | U         | 87   | 11  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Bromoform                             | 87          | U         | 87   | 21  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Bromomethane                          | 220         | U *       | 220  | 32  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 2-Butanone (MEK)                      | 650         | U         | 650  | 47  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Carbon disulfide                      | 220         | U         | 220  | 13  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Carbon tetrachloride                  | 43          | U         | 43   | 7.0 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Chlorobenzene                         | 43          | U         | 43   | 7.0 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Chloroethane                          | 220         | U *       | 220  | 66  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Chloroform                            | 43          | U         | 43   | 9.6 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Chloromethane                         | 220         | U         | 220  | 15  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,1-Dichloroethane                    | 43          | U         | 43   | 18  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,2-Dichloroethane                    | 43          | U         | 43   | 11  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,1-Dichloroethene                    | 43          | U         | 43   | 20  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,2-Dichloropropane                   | 43          | U         | 43   | 8.9 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,2,4-Trimethylbenzene                | 87          | U         | 87   | 5.4 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| cis-1,3-Dichloropropene               | 43          | U         | 43   | 8.6 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| trans-1,3-Dichloropropene             | 43          | U         | 43   | 22  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Ethylbenzene                          | 43          | U         | 43   | 5.9 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 2-Hexanone                            | 2200        | U         | 2200 | 22  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Methylene Chloride                    | 220         | U         | 220  | 84  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2200        | U         | 2200 | 52  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Styrene                               | 43          | U         | 43   | 6.1 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,1,2,2-Tetrachloroethane             | 43          | U         | 43   | 9.7 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| <b>Tetrachloroethene</b>              | <b>1100</b> |           | 43   | 13  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Toluene                               | 87          | U         | 87   | 18  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| <b>Trichloroethene</b>                | <b>2700</b> |           | 43   | 11  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,3,5-Trimethylbenzene                | 87          | U         | 87   | 6.3 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Vinyl chloride                        | 35          | U         | 35   | 20  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Xylenes, Total                        | 130         | U         | 130  | 8.8 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| <b>1,1,1-Trichloroethane</b>          | <b>1800</b> |           | 43   | 23  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,1,2-Trichloroethane                 | 43          | U         | 43   | 13  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Cyclohexane                           | 1000        | U         | 1000 | 43  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 220         | U         | 220  | 54  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,2-Dibromoethane                     | 220         | U         | 220  | 11  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Dichlorodifluoromethane               | 87          | U         | 87   | 17  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| <b>cis-1,2-Dichloroethene</b>         | <b>23 J</b> |           | 43   | 7.5 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| trans-1,2-Dichloroethene              | 43          | U         | 43   | 10  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Isopropylbenzene                      | 220         | U         | 220  | 7.1 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Methyl acetate                        | 1000        | U         | 1000 | 27  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Methyl tert-butyl ether               | 220         | U         | 220  | 7.7 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 220         | U         | 220  | 42  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,2,4-Trichlorobenzene                | 220         | U         | 220  | 7.9 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,2-Dichlorobenzene                   | 87          | U         | 87   | 9.3 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,3-Dichlorobenzene                   | 87          | U         | 87   | 5.2 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 1,4-Dichlorobenzene                   | 87          | U         | 87   | 8.7 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Trichlorofluoromethane                | 87          | U         | 87   | 17  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Dibromochloromethane                  | 43          | U         | 43   | 13  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Methylcyclohexane                     | 1000        | U         | 1000 | 13  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 19:46 | 1       |

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 99        |           | 39 - 128 | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| 4-Bromofluorobenzene (Surr)  | 91        |           | 26 - 141 | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Toluene-d8 (Surr)            | 88        |           | 33 - 134 | 08/06/12 11:06 | 08/08/12 19:46 | 1       |
| Dibromofluoromethane (Surr)  | 88        |           | 30 - 122 | 08/06/12 11:06 | 08/08/12 19:46 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SO-7097-073112-CB-019

Date Collected: 07/31/12 13:00

Date Received: 08/01/12 09:30

Lab Sample ID: 240-13731-2

Matrix: Solid

Percent Solids: 91.1

| Analyte                               | Result       | Qualifier | RL    | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------------|-----------|-------|------|-------|---|----------------|----------------|---------|
| Acetone                               | 6600         | U         | 6600  | 1900 | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Benzene                               | 440          | U         | 440   | 130  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Bromodichloromethane                  | 870          | U         | 870   | 110  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Bromoform                             | 870          | U         | 870   | 210  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Bromomethane                          | 2200         | U *       | 2200  | 320  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 2-Butanone (MEK)                      | 6600         | U         | 6600  | 470  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Carbon disulfide                      | 2200         | U         | 2200  | 130  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Carbon tetrachloride                  | 440          | U         | 440   | 70   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Chlorobenzene                         | 440          | U         | 440   | 70   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Chloroethane                          | 2200         | U *       | 2200  | 670  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Chloroform                            | 440          | U         | 440   | 96   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Chloromethane                         | 2200         | U         | 2200  | 150  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| <b>1,1-Dichloroethane</b>             | <b>11000</b> |           | 440   | 190  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 1,2-Dichloroethane                    | 440          | U         | 440   | 110  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 1,1-Dichloroethene                    | 440          | U         | 440   | 200  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 1,2-Dichloropropane                   | 440          | U         | 440   | 90   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| <b>1,2,4-Trimethylbenzene</b>         | <b>180</b>   | <b>J</b>  | 870   | 55   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| cis-1,3-Dichloropropene               | 440          | U         | 440   | 86   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| trans-1,3-Dichloropropene             | 440          | U         | 440   | 220  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Ethylbenzene                          | 440          | U         | 440   | 59   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 2-Hexanone                            | 22000        | U         | 22000 | 220  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Methylene Chloride                    | 2200         | U         | 2200  | 840  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 4-Methyl-2-pentanone (MIBK)           | 22000        | U         | 22000 | 520  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Styrene                               | 440          | U         | 440   | 61   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 1,1,2,2-Tetrachloroethane             | 440          | U         | 440   | 97   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Tetrachloroethene                     | 440          | U         | 440   | 130  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Toluene                               | 870          | U         | 870   | 190  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| <b>Trichloroethene</b>                | <b>4600</b>  |           | 440   | 110  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 1,3,5-Trimethylbenzene                | 870          | U         | 870   | 63   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Vinyl chloride                        | 350          | U         | 350   | 200  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| <b>Xylenes, Total</b>                 | <b>130</b>   | <b>J</b>  | 1300  | 89   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| <b>1,1,1-Trichloroethane</b>          | <b>25000</b> |           | 440   | 230  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 1,1,2-Trichloroethane                 | 440          | U         | 440   | 130  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Cyclohexane                           | 10000        | U         | 10000 | 440  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 1,2-Dibromo-3-Chloropropane           | 2200         | U         | 2200  | 550  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 1,2-Dibromoethane                     | 2200         | U         | 2200  | 110  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Dichlorodifluoromethane               | 870          | U         | 870   | 170  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| cis-1,2-Dichloroethene                | 440          | U         | 440   | 75   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| trans-1,2-Dichloroethene              | 440          | U         | 440   | 100  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Isopropylbenzene                      | 2200         | U         | 2200  | 71   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Methyl acetate                        | 10000        | U         | 10000 | 270  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Methyl tert-butyl ether               | 2200         | U         | 2200  | 78   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2200         | U         | 2200  | 430  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 1,2,4-Trichlorobenzene                | 2200         | U         | 2200  | 80   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 1,2-Dichlorobenzene                   | 870          | U         | 870   | 94   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 1,3-Dichlorobenzene                   | 870          | U         | 870   | 52   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 1,4-Dichlorobenzene                   | 870          | U         | 870   | 87   | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Trichlorofluoromethane                | 870          | U         | 870   | 170  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Dibromochloromethane                  | 440          | U         | 440   | 130  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| <b>Methylcyclohexane</b>              | <b>350</b>   | <b>J</b>  | 10000 | 130  | ug/Kg | ☼ | 08/06/12 11:06 | 08/09/12 05:25 | 10      |

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 2         | X         | 39 - 128 | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| 4-Bromofluorobenzene (Surr)  | 1         | X         | 26 - 141 | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Toluene-d8 (Surr)            | 2         | X         | 33 - 134 | 08/06/12 11:06 | 08/09/12 05:25 | 10      |
| Dibromofluoromethane (Surr)  | 2         | X         | 30 - 122 | 08/06/12 11:06 | 08/09/12 05:25 | 10      |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SO-7097-073112-CB-021

Date Collected: 07/31/12 14:25

Date Received: 08/01/12 09:30

Lab Sample ID: 240-13731-3

Matrix: Solid

Percent Solids: 90.3

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 670    | U         | 670  | 190 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Benzene                               | 44     | U         | 44   | 13  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Bromodichloromethane                  | 89     | U         | 89   | 11  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Bromoform                             | 89     | U         | 89   | 21  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Bromomethane                          | 220    | U *       | 220  | 32  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 2-Butanone (MEK)                      | 670    | U         | 670  | 48  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Carbon disulfide                      | 220    | U         | 220  | 13  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Carbon tetrachloride                  | 44     | U         | 44   | 7.1 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Chlorobenzene                         | 44     | U         | 44   | 7.1 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Chloroethane                          | 220    | U *       | 220  | 68  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Chloroform                            | 44     | U         | 44   | 9.8 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Chloromethane                         | 220    | U         | 220  | 16  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,1-Dichloroethane                    | 44     | U         | 44   | 19  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,2-Dichloroethane                    | 44     | U         | 44   | 11  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,1-Dichloroethene                    | 44     | U         | 44   | 20  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,2-Dichloropropane                   | 44     | U         | 44   | 9.1 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,2,4-Trimethylbenzene                | 89     | U         | 89   | 5.6 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| cis-1,3-Dichloropropene               | 44     | U         | 44   | 8.8 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| trans-1,3-Dichloropropene             | 44     | U         | 44   | 22  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Ethylbenzene                          | 44     | U         | 44   | 6.0 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 2-Hexanone                            | 2200   | U         | 2200 | 22  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Methylene Chloride                    | 220    | U         | 220  | 86  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2200   | U         | 2200 | 53  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Styrene                               | 44     | U         | 44   | 6.2 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,1,2,2-Tetrachloroethane             | 44     | U         | 44   | 9.9 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Tetrachloroethene                     | 44     | U         | 44   | 13  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Toluene                               | 89     | U         | 89   | 19  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Trichloroethene                       | 44     | U         | 44   | 11  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,3,5-Trimethylbenzene                | 89     | U         | 89   | 6.4 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Vinyl chloride                        | 36     | U         | 36   | 20  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Xylenes, Total                        | 130    | U         | 130  | 9.0 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,1,1-Trichloroethane                 | 44     | U         | 44   | 23  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,1,2-Trichloroethane                 | 44     | U         | 44   | 13  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Cyclohexane                           | 1100   | U         | 1100 | 44  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 220    | U         | 220  | 56  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,2-Dibromoethane                     | 220    | U         | 220  | 11  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Dichlorodifluoromethane               | 89     | U         | 89   | 18  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| cis-1,2-Dichloroethene                | 44     | U         | 44   | 7.7 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| trans-1,2-Dichloroethene              | 44     | U         | 44   | 10  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Isopropylbenzene                      | 220    | U         | 220  | 7.2 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Methyl acetate                        | 1100   | U         | 1100 | 28  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Methyl tert-butyl ether               | 220    | U         | 220  | 7.9 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 220    | U         | 220  | 43  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,2,4-Trichlorobenzene                | 220    | U         | 220  | 8.1 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,2-Dichlorobenzene                   | 89     | U         | 89   | 9.6 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,3-Dichlorobenzene                   | 89     | U         | 89   | 5.3 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 1,4-Dichlorobenzene                   | 89     | U         | 89   | 8.9 | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Trichlorofluoromethane                | 89     | U         | 89   | 18  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Dibromochloromethane                  | 44     | U         | 44   | 13  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Methylcyclohexane                     | 1100   | U         | 1100 | 13  | ug/Kg | ☼ | 08/06/12 11:06 | 08/08/12 20:37 | 1       |

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 39 - 128 | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 26 - 141 | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Toluene-d8 (Surr)            | 85        |           | 33 - 134 | 08/06/12 11:06 | 08/08/12 20:37 | 1       |
| Dibromofluoromethane (Surr)  | 83        |           | 30 - 122 | 08/06/12 11:06 | 08/08/12 20:37 | 1       |

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-7097-073112-CB-022

Date Collected: 07/31/12 00:00

Date Received: 08/01/12 09:30

Lab Sample ID: 240-13731-4

Matrix: Solid

| Analyte                               | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 600    | U         | 600  | 170 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Benzene                               | 40     | U         | 40   | 12  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Bromodichloromethane                  | 80     | U         | 80   | 9.9 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Bromoform                             | 80     | U         | 80   | 19  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Bromomethane                          | 200    | U *       | 200  | 29  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 2-Butanone (MEK)                      | 600    | U         | 600  | 43  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Carbon disulfide                      | 200    | U         | 200  | 12  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Carbon tetrachloride                  | 40     | U         | 40   | 6.4 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Chlorobenzene                         | 40     | U         | 40   | 6.4 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Chloroethane                          | 200    | U *       | 200  | 61  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Chloroform                            | 40     | U         | 40   | 8.8 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Chloromethane                         | 200    | U         | 200  | 14  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,1-Dichloroethane                    | 40     | U         | 40   | 17  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,2-Dichloroethane                    | 40     | U         | 40   | 10  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,1-Dichloroethene                    | 40     | U         | 40   | 18  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,2-Dichloropropane                   | 40     | U         | 40   | 8.2 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,2,4-Trimethylbenzene                | 80     | U         | 80   | 5.0 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| cis-1,3-Dichloropropene               | 40     | U         | 40   | 7.9 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| trans-1,3-Dichloropropene             | 40     | U         | 40   | 20  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Ethylbenzene                          | 40     | U         | 40   | 5.4 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 2-Hexanone                            | 2000   | U         | 2000 | 20  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Methylene Chloride                    | 200    | U         | 200  | 77  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2000   | U         | 2000 | 48  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Styrene                               | 40     | U         | 40   | 5.6 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,1,2,2-Tetrachloroethane             | 40     | U         | 40   | 8.9 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Tetrachloroethene                     | 40     | U         | 40   | 12  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Toluene                               | 80     | U         | 80   | 17  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Trichloroethene                       | 40     | U         | 40   | 9.7 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,3,5-Trimethylbenzene                | 80     | U         | 80   | 5.8 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Vinyl chloride                        | 32     | U         | 32   | 18  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Xylenes, Total                        | 120    | U         | 120  | 8.1 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,1,1-Trichloroethane                 | 40     | U         | 40   | 21  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,1,2-Trichloroethane                 | 40     | U         | 40   | 12  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Cyclohexane                           | 960    | U         | 960  | 40  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 200    | U         | 200  | 50  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,2-Dibromoethane                     | 200    | U         | 200  | 10  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Dichlorodifluoromethane               | 80     | U         | 80   | 16  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| cis-1,2-Dichloroethene                | 40     | U         | 40   | 6.9 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| trans-1,2-Dichloroethene              | 40     | U         | 40   | 9.2 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Isopropylbenzene                      | 200    | U         | 200  | 6.5 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Methyl acetate                        | 960    | U         | 960  | 25  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Methyl tert-butyl ether               | 200    | U         | 200  | 7.1 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 200    | U         | 200  | 39  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,2,4-Trichlorobenzene                | 200    | U         | 200  | 7.3 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,2-Dichlorobenzene                   | 80     | U         | 80   | 8.6 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,3-Dichlorobenzene                   | 80     | U         | 80   | 4.8 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 1,4-Dichlorobenzene                   | 80     | U         | 80   | 8.0 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Trichlorofluoromethane                | 80     | U         | 80   | 16  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Dibromochloromethane                  | 40     | U         | 40   | 12  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Methylcyclohexane                     | 960    | U         | 960  | 12  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 21:02 | 1       |

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 108       |           | 39 - 128 | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| 4-Bromofluorobenzene (Surr)  | 103       |           | 26 - 141 | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Toluene-d8 (Surr)            | 102       |           | 33 - 134 | 08/06/12 11:06 | 08/08/12 21:02 | 1       |
| Dibromofluoromethane (Surr)  | 95        |           | 30 - 122 | 08/06/12 11:06 | 08/08/12 21:02 | 1       |

## QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

### GC/MS VOA

#### Prep Batch: 53354

| Lab Sample ID     | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|-------------------|-----------------------|-----------|--------|--------|------------|
| 240-13731-1       | SO-7097-073112-CB-018 | Total/NA  | Solid  | 5035   |            |
| 240-13731-2       | SO-7097-073112-CB-019 | Total/NA  | Solid  | 5035   |            |
| 240-13731-3       | SO-7097-073112-CB-021 | Total/NA  | Solid  | 5035   |            |
| 240-13731-4       | TB-7097-073112-CB-022 | Total/NA  | Solid  | 5035   |            |
| LCS 240-53354/2-A | Lab Control Sample    | Total/NA  | Solid  | 5035   |            |
| MB 240-53354/1-A  | Method Blank          | Total/NA  | Solid  | 5035   |            |

#### Analysis Batch: 53777

| Lab Sample ID     | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|-------------------|-----------------------|-----------|--------|--------|------------|
| 240-13731-1       | SO-7097-073112-CB-018 | Total/NA  | Solid  | 8260B  | 53354      |
| 240-13731-2       | SO-7097-073112-CB-019 | Total/NA  | Solid  | 8260B  | 53354      |
| 240-13731-3       | SO-7097-073112-CB-021 | Total/NA  | Solid  | 8260B  | 53354      |
| 240-13731-4       | TB-7097-073112-CB-022 | Total/NA  | Solid  | 8260B  | 53354      |
| LCS 240-53354/2-A | Lab Control Sample    | Total/NA  | Solid  | 8260B  | 53354      |
| MB 240-53354/1-A  | Method Blank          | Total/NA  | Solid  | 8260B  | 53354      |

### General Chemistry

#### Analysis Batch: 52965

| Lab Sample ID | Client Sample ID      | Prep Type | Matrix | Method   | Prep Batch |
|---------------|-----------------------|-----------|--------|----------|------------|
| 240-13731-1   | SO-7097-073112-CB-018 | Total/NA  | Solid  | Moisture |            |
| 240-13731-2   | SO-7097-073112-CB-019 | Total/NA  | Solid  | Moisture |            |
| 240-13731-3   | SO-7097-073112-CB-021 | Total/NA  | Solid  | Moisture |            |

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-53354/1-A

Matrix: Solid

Analysis Batch: 53777

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53354

| Analyte                               | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Acetone                               | 600       | U            | 600  | 170 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Benzene                               | 40        | U            | 40   | 12  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Bromodichloromethane                  | 80        | U            | 80   | 9.9 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Bromoform                             | 80        | U            | 80   | 19  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Bromomethane                          | 200       | U            | 200  | 29  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 2-Butanone (MEK)                      | 600       | U            | 600  | 43  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Carbon disulfide                      | 200       | U            | 200  | 12  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Carbon tetrachloride                  | 40        | U            | 40   | 6.4 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Chlorobenzene                         | 40        | U            | 40   | 6.4 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Chloroethane                          | 200       | U            | 200  | 61  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Chloroform                            | 40        | U            | 40   | 8.8 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Chloromethane                         | 200       | U            | 200  | 14  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,1-Dichloroethane                    | 40        | U            | 40   | 17  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,2-Dichloroethane                    | 40        | U            | 40   | 10  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,1-Dichloroethene                    | 40        | U            | 40   | 18  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,2-Dichloropropane                   | 40        | U            | 40   | 8.2 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,2,4-Trimethylbenzene                | 80        | U            | 80   | 5.0 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| cis-1,3-Dichloropropene               | 40        | U            | 40   | 7.9 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| trans-1,3-Dichloropropene             | 40        | U            | 40   | 20  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Ethylbenzene                          | 40        | U            | 40   | 5.4 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 2-Hexanone                            | 2000      | U            | 2000 | 20  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Methylene Chloride                    | 120       | J            | 200  | 77  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2000      | U            | 2000 | 48  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Styrene                               | 40        | U            | 40   | 5.6 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,1,2,2-Tetrachloroethane             | 40        | U            | 40   | 8.9 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Tetrachloroethene                     | 40        | U            | 40   | 12  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Toluene                               | 80        | U            | 80   | 17  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Trichloroethene                       | 40        | U            | 40   | 9.7 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,3,5-Trimethylbenzene                | 80        | U            | 80   | 5.8 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Vinyl chloride                        | 32        | U            | 32   | 18  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Xylenes, Total                        | 120       | U            | 120  | 8.1 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,1,1-Trichloroethane                 | 40        | U            | 40   | 21  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,1,2-Trichloroethane                 | 40        | U            | 40   | 12  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Cyclohexane                           | 960       | U            | 960  | 40  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 200       | U            | 200  | 50  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,2-Dibromoethane                     | 200       | U            | 200  | 10  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Dichlorodifluoromethane               | 80        | U            | 80   | 16  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| cis-1,2-Dichloroethene                | 40        | U            | 40   | 6.9 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| trans-1,2-Dichloroethene              | 40        | U            | 40   | 9.2 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Isopropylbenzene                      | 200       | U            | 200  | 6.5 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Methyl acetate                        | 960       | U            | 960  | 25  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Methyl tert-butyl ether               | 200       | U            | 200  | 7.1 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 200       | U            | 200  | 39  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,2,4-Trichlorobenzene                | 200       | U            | 200  | 7.3 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,2-Dichlorobenzene                   | 80        | U            | 80   | 8.6 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,3-Dichlorobenzene                   | 80        | U            | 80   | 4.8 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 1,4-Dichlorobenzene                   | 80        | U            | 80   | 8.0 | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Trichlorofluoromethane                | 80        | U            | 80   | 16  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Dibromochloromethane                  | 40        | U            | 40   | 12  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-53354/1-A

Matrix: Solid

Analysis Batch: 53777

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53354

| Analyte                      | MB<br>Result    | MB<br>Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------------|-----------------|----------|-----|-------|---|----------------|----------------|---------|
| Methylcyclohexane            | 960             | U               | 960      | 12  | ug/Kg |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Surrogate                    | MB<br>%Recovery | MB<br>Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 101             |                 | 39 - 128 |     |       |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| 4-Bromofluorobenzene (Surr)  | 90              |                 | 26 - 141 |     |       |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Toluene-d8 (Surr)            | 88              |                 | 33 - 134 |     |       |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |
| Dibromofluoromethane (Surr)  | 88              |                 | 30 - 122 |     |       |   | 08/06/12 11:06 | 08/08/12 19:21 | 1       |

Lab Sample ID: LCS 240-53354/2-A

Matrix: Solid

Analysis Batch: 53777

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53354

| Analyte                     | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|-----------------------------|----------------|---------------|------------------|-------|---|------|-----------------|
| Acetone                     | 1000           | 1450          |                  | ug/Kg |   | 145  | 16 - 156        |
| Benzene                     | 500            | 519           |                  | ug/Kg |   | 104  | 70 - 117        |
| Bromodichloromethane        | 500            | 432           |                  | ug/Kg |   | 86   | 28 - 123        |
| Bromoform                   | 500            | 342           |                  | ug/Kg |   | 68   | 10 - 117        |
| Bromomethane                | 500            | 1030          | *                | ug/Kg |   | 205  | 10 - 114        |
| 2-Butanone (MEK)            | 1000           | 1100          |                  | ug/Kg |   | 110  | 10 - 199        |
| Carbon disulfide            | 500            | 525           |                  | ug/Kg |   | 105  | 10 - 132        |
| Carbon tetrachloride        | 500            | 490           |                  | ug/Kg |   | 98   | 29 - 118        |
| Chlorobenzene               | 500            | 509           |                  | ug/Kg |   | 102  | 71 - 116        |
| Chloroethane                | 500            | 767           | *                | ug/Kg |   | 153  | 10 - 120        |
| Chloroform                  | 500            | 477           |                  | ug/Kg |   | 95   | 63 - 116        |
| Chloromethane               | 500            | 401           |                  | ug/Kg |   | 80   | 25 - 110        |
| 1,1-Dichloroethane          | 500            | 534           |                  | ug/Kg |   | 107  | 63 - 117        |
| 1,2-Dichloroethane          | 500            | 517           |                  | ug/Kg |   | 103  | 68 - 119        |
| 1,1-Dichloroethene          | 500            | 656           |                  | ug/Kg |   | 131  | 44 - 143        |
| 1,2-Dichloropropane         | 500            | 498           |                  | ug/Kg |   | 100  | 73 - 113        |
| 1,2,4-Trimethylbenzene      | 500            | 482           |                  | ug/Kg |   | 96   | 62 - 133        |
| cis-1,3-Dichloropropene     | 500            | 432           |                  | ug/Kg |   | 86   | 25 - 120        |
| trans-1,3-Dichloropropene   | 500            | 417           |                  | ug/Kg |   | 83   | 22 - 122        |
| Ethylbenzene                | 500            | 515           |                  | ug/Kg |   | 103  | 66 - 119        |
| 2-Hexanone                  | 1000           | 1030          | J                | ug/Kg |   | 103  | 43 - 130        |
| Methylene Chloride          | 500            | 710           |                  | ug/Kg |   | 142  | 27 - 172        |
| 4-Methyl-2-pentanone (MIBK) | 1000           | 1040          | J                | ug/Kg |   | 104  | 49 - 121        |
| Styrene                     | 500            | 472           |                  | ug/Kg |   | 94   | 60 - 120        |
| 1,1,2,2-Tetrachloroethane   | 500            | 503           |                  | ug/Kg |   | 101  | 54 - 121        |
| Tetrachloroethene           | 500            | 541           |                  | ug/Kg |   | 108  | 58 - 131        |
| Toluene                     | 500            | 516           |                  | ug/Kg |   | 103  | 66 - 123        |
| Trichloroethene             | 500            | 508           |                  | ug/Kg |   | 102  | 59 - 124        |
| 1,3,5-Trimethylbenzene      | 500            | 472           |                  | ug/Kg |   | 94   | 60 - 130        |
| Vinyl chloride              | 500            | 430           |                  | ug/Kg |   | 86   | 33 - 110        |
| Xylenes, Total              | 1500           | 1500          |                  | ug/Kg |   | 100  | 68 - 119        |
| 1,1,1-Trichloroethane       | 500            | 479           |                  | ug/Kg |   | 96   | 38 - 122        |
| 1,1,2-Trichloroethane       | 500            | 514           |                  | ug/Kg |   | 103  | 74 - 114        |
| Cyclohexane                 | 500            | 365           | J                | ug/Kg |   | 73   | 40 - 120        |
| 1,2-Dibromo-3-Chloropropane | 500            | 433           |                  | ug/Kg |   | 87   | 10 - 129        |
| 1,2-Dibromoethane           | 500            | 501           |                  | ug/Kg |   | 100  | 47 - 123        |

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-53354/2-A

Matrix: Solid

Analysis Batch: 53777

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53354

| Analyte                               | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Dichlorodifluoromethane               | 500         | 376        |               | ug/Kg |   | 75   | 10 - 110     |
| cis-1,2-Dichloroethene                | 500         | 490        |               | ug/Kg |   | 98   | 60 - 125     |
| trans-1,2-Dichloroethene              | 500         | 553        |               | ug/Kg |   | 111  | 58 - 121     |
| Isopropylbenzene                      | 500         | 517        |               | ug/Kg |   | 103  | 61 - 123     |
| Methyl acetate                        | 500         | 824        | J             | ug/Kg |   | 165  | 44 - 173     |
| Methyl tert-butyl ether               | 500         | 601        |               | ug/Kg |   | 120  | 34 - 157     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 500         | 738        |               | ug/Kg |   | 148  | 48 - 151     |
| 1,2,4-Trichlorobenzene                | 500         | 518        |               | ug/Kg |   | 104  | 41 - 135     |
| 1,2-Dichlorobenzene                   | 500         | 500        |               | ug/Kg |   | 100  | 68 - 118     |
| 1,3-Dichlorobenzene                   | 500         | 481        |               | ug/Kg |   | 96   | 66 - 121     |
| 1,4-Dichlorobenzene                   | 500         | 473        |               | ug/Kg |   | 95   | 65 - 119     |
| Trichlorofluoromethane                | 500         | 622        |               | ug/Kg |   | 124  | 17 - 145     |
| Dibromochloromethane                  | 500         | 374        |               | ug/Kg |   | 75   | 22 - 113     |
| Methylcyclohexane                     | 500         | 445        | J             | ug/Kg |   | 89   | 41 - 133     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 98            |               | 39 - 128 |
| 4-Bromofluorobenzene (Surr)  | 93            |               | 26 - 141 |
| Toluene-d8 (Surr)            | 87            |               | 33 - 134 |
| Dibromofluoromethane (Surr)  | 90            |               | 30 - 122 |

## Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID      | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                  |
|-------------------|-----------------------|------------------------------------------------|-----------------|-----------------|------------------|
|                   |                       | 12DCE<br>(39-128)                              | BFB<br>(26-141) | TOL<br>(33-134) | DBFM<br>(30-122) |
| 240-13731-1       | SO-7097-073112-CB-018 | 99                                             | 91              | 88              | 88               |
| 240-13731-2       | SO-7097-073112-CB-019 | 2 X                                            | 1 X             | 2 X             | 2 X              |
| 240-13731-3       | SO-7097-073112-CB-021 | 95                                             | 87              | 85              | 83               |
| 240-13731-4       | TB-7097-073112-CB-022 | 108                                            | 103             | 102             | 95               |
| LCS 240-53354/2-A | Lab Control Sample    | 98                                             | 93              | 87              | 90               |
| MB 240-53354/1-A  | Method Blank          | 101                                            | 90              | 88              | 88               |

#### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

## Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

**Client Sample ID: SO-7097-073112-CB-018**

**Lab Sample ID: 240-13731-1**

Date Collected: 07/31/12 12:15

Matrix: Solid

Date Received: 08/01/12 09:30

Percent Solids: 85.7

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 53354        | 08/06/12 11:06       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 53777        | 08/08/12 19:46       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 52965        | 08/02/12 11:13       | TH      | TAL NC |

**Client Sample ID: SO-7097-073112-CB-019**

**Lab Sample ID: 240-13731-2**

Date Collected: 07/31/12 13:00

Matrix: Solid

Date Received: 08/01/12 09:30

Percent Solids: 91.1

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 53354        | 08/06/12 11:06       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 10              | 53777        | 08/09/12 05:25       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 52965        | 08/02/12 11:13       | TH      | TAL NC |

**Client Sample ID: SO-7097-073112-CB-021**

**Lab Sample ID: 240-13731-3**

Date Collected: 07/31/12 14:25

Matrix: Solid

Date Received: 08/01/12 09:30

Percent Solids: 90.3

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 53354        | 08/06/12 11:06       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 53777        | 08/08/12 20:37       | TL      | TAL NC |
| Total/NA  | Analysis   | Moisture     |     | 1               | 52965        | 08/02/12 11:13       | TH      | TAL NC |

**Client Sample ID: TB-7097-073112-CB-022**

**Lab Sample ID: 240-13731-4**

Date Collected: 07/31/12 00:00

Matrix: Solid

Date Received: 08/01/12 09:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | 5035         |     |                 | 53354        | 08/06/12 11:06       | LM      | TAL NC |
| Total/NA  | Analysis   | 8260B        |     | 1               | 53777        | 08/08/12 21:02       | TL      | TAL NC |

### Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 7097-T05, RACER PCC

TestAmerica Job ID: 240-13731-1

### Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority         | Program       | EPA Region | Certification ID | Expiration Date |
|-------------------|---------------|------------|------------------|-----------------|
| California        | NELAC         | 9          | 01144CA          | 06-30-13        |
| Connecticut       | State Program | 1          | PH-0590          | 12-31-13        |
| Florida           | NELAC         | 4          | E87225           | 06-30-13        |
| Georgia           | State Program | 4          | N/A              | 06-30-13        |
| Illinois          | NELAC         | 5          | 200004           | 07-31-13        |
| Kansas            | NELAC         | 7          | E-10336          | 01-31-13        |
| Kentucky          | State Program | 4          | 58               | 11-16-12        |
| L-A-B             | DoD ELAP      |            | L2315            | 02-28-13        |
| Minnesota         | NELAC         | 5          | 039-999-348      | 12-31-12        |
| Nevada            | State Program | 9          | OH-000482008A    | 07-31-12        |
| New Jersey        | NELAC         | 2          | OH001            | 06-30-13        |
| New York          | NELAC         | 2          | 10975            | 04-01-13        |
| Ohio VAP          | State Program | 5          | CL0024           | 01-19-14        |
| Pennsylvania      | NELAC         | 3          | 68-00340         | 08-31-12        |
| USDA              | Federal       |            | P330-11-00328    | 08-26-14        |
| Virginia          | NELAC         | 3          | 460175           | 09-14-12        |
| Washington        | State Program | 10         | C971             | 01-12-13        |
| West Virginia DEP | State Program | 3          | 210              | 12-31-12        |
| Wisconsin         | State Program | 5          | 999518190        | 08-31-12        |



CONESTOGA-ROVERS  
& ASSOCIATES

# CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO. **PL-09811**

PAGE **2** OF **3**

(See Reverse Side for Instructions)

|                                                     |                                                                                   |                                         |                  |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
|-----------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------|------------------|---------------------------------------------------------|-------------|--------------------------------------|---------------------------------|-------------------------------------------------|-------------------------|-----------------------|-----------------------|--------|----------------|------------------------------------|
| Project No/Phase/Task Code:<br><b>007097-T05412</b> |                                                                                   | Laboratory Name:<br><b>Test America</b> |                  | Lab Location:<br><b>North Canton, OH</b>                |             | SSOW ID:<br><b>13080 T05-002</b>     |                                 |                                                 |                         |                       |                       |        |                |                                    |
| Project Name:<br><b>Racer-PCC West</b>              |                                                                                   | Lab Contact:<br><b>Denise Hackler</b>   |                  | Lab Quote No.:                                          |             | Cooler No:<br><b>241325</b>          |                                 |                                                 |                         |                       |                       |        |                |                                    |
| Project Location:<br><b>Pontiac, MI</b>             |                                                                                   | SAMPLE TYPE                             |                  | CONTAINER QUANTITY & PRESERVATION                       |             | Carrier:<br><b>FeDEX</b>             |                                 |                                                 |                         |                       |                       |        |                |                                    |
| Chemistry Contact:<br><b>Paul Wiseman</b>           |                                                                                   | Matrix Code                             |                  | ANALYSIS REQUESTED<br>(See Back of COC for Definitions) |             | Airbill No:<br><b>8709 8505 0408</b> |                                 |                                                 |                         |                       |                       |        |                |                                    |
| Sampler(s):<br><b>C. Bondy</b>                      |                                                                                   | (see back of COC)                       |                  | Total Containers/Sample                                 |             | Date Shipped:<br><b>7/31/12</b>      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| Item                                                | SAMPLE IDENTIFICATION<br>(Containers for each sample may be combined on one line) | DATE<br>(month/day/yr)                  | TIME<br>(hr:min) | Grab (G) or Comp (C)                                    | Unpreserved | Hydrochloric Acid (HCl)              | Nitric Acid (HNO <sub>3</sub> ) | Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> ) | Sodium Hydroxide (NaOH) | Methanol/Water (Soil) | EnCores 3x5-g, 1x25-g | Other: | MS/MSD Request | COMMENTS/<br>SPECIAL INSTRUCTIONS: |
| 1                                                   | 50-7097-073112-CB-018                                                             | 7/31/12                                 | 1215             | G                                                       | 1           |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 2                                                   | ↓ -019                                                                            | ↓                                       | 1300             | ↓                                                       | 1           |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 3                                                   | ↓ -021                                                                            | ↓                                       | 1425             | ↓                                                       | 1           |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 4                                                   | ↓ -022                                                                            | ↓                                       | ---              | 500-                                                    |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 5                                                   | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 6                                                   | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 7                                                   | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 8                                                   | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 9                                                   | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 10                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 11                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 12                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 13                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 14                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 15                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 16                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 17                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 18                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 19                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 20                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 21                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 22                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 23                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 24                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 25                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 26                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |
| 27                                                  | ↓                                                                                 | ↓                                       | ---              |                                                         |             |                                      |                                 |                                                 |                         |                       |                       |        |                |                                    |

|                                                                       |                                 |                                      |                                            |                                         |                                 |
|-----------------------------------------------------------------------|---------------------------------|--------------------------------------|--------------------------------------------|-----------------------------------------|---------------------------------|
| TAT Required in business days (use separate COCs for different TATs): |                                 | Total Number of Containers: <b>7</b> |                                            | Notes/ Special Requirements:            |                                 |
| <input type="checkbox"/> 1 Day                                        | <input type="checkbox"/> 2 Days | <input type="checkbox"/> 3 Days      | <input checked="" type="checkbox"/> 1 Week | <input type="checkbox"/> 2 Week         | <input type="checkbox"/> Other: |
| RELINQUISHED BY: <b>C. Bondy</b>                                      |                                 | DATE: <b>7/31/12</b>                 | TIME: <b>1600</b>                          | COMPANY: <b>CRA</b>                     | RECEIVED BY: <b>1. C. Bondy</b> |
| Distribution:                                                         |                                 | WHITE - Fully Executed Copy (CRA)    | YELLOW - Receiving Laboratory Copy         | ALL FIELDS MUST BE COMPLETED ACCURATELY |                                 |
| GOLDENROD - Sampling Crew                                             |                                 | PINK - Shipper                       |                                            | CRA Form: COC-10A (20110804)            |                                 |

## TestAmerica North Canton Sample Receipt Form/Narrative

Login # : 13731

Client CRA

Site Name \_\_\_\_\_

By: [Signature]

(Signature)

Cooler Received on 8-1-12Opened on 8-1-12FedEx: 1<sup>st</sup> Grd ☒ Exp ☐ UPS ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other \_\_\_\_\_

TestAmerica Cooler # \_\_\_\_\_

Foam Box ☐Client Cooler ☒Box ☐Other ☐Packing material used: Bubble WrapFoam ☐Plastic Bag ☐None ☐Other ☐COOLANT: Wet IceBlue Ice ☐Dry Ice ☐Water ☐None ☐

## 1. Cooler temperature upon receipt

IR GUN# 1 (CF 0°C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 4G (CF -1°C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 5G (CF -1°C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 8 (CF 0°C) Observed Sample Temp. 2.6 °C Corrected Sample Temp. 2.6 °C☐ Multiple  
on Back

## 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity \_\_\_\_\_

Yes ☒ No ☐

-Were custody seals on the outside of the cooler(s) signed &amp; dated?

Yes ☐ No ☒ NA

-Were custody seals on the bottle(s)?

Yes ☐ No ☒

## 3. Shippers' packing slip attached to the cooler(s)?

Yes ☒ No ☐

## 4. Did custody papers accompany the sample(s)?

Yes ☒ No ☐

## 5. Were the custody papers relinquished &amp; signed in the appropriate place?

Yes ☒ No ☐

## 6. Did all bottles arrive in good condition (Unbroken)?

Yes ☒ No ☐

## 7. Could all bottle labels be reconciled with the COC?

Yes ☒ No ☐

## 8. Were correct bottle(s) used for the test(s) indicated?

Yes ☒ No ☐

## 9. Sufficient quantity received to perform indicated analyses?

Yes ☒ No ☐

## 10. Were sample(s) at the correct pH upon receipt?

Yes ☐ No ☒ NA

## 11. Were VOAs on the COC?

Yes ☒ No ☐

## 12. Were air bubbles &gt;6 mm in any VOA vials?

Yes ☐ No ☒ NA

## 13. Was a trip blank present in the cooler(s)?

Yes ☒ No ☐

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_

Concerning \_\_\_\_\_

## 14. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES

## 15. SAMPLE CONDITION

Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.

Sample(s) \_\_\_\_\_ were received in a broken container.

Sample(s) \_\_\_\_\_ were received with bubble &gt;6 mm in diameter. (Notify PM)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Sample(s) \_\_\_\_\_ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO<sub>3</sub>; Sulfuric Acid Lot# 041911-H<sub>2</sub>SO<sub>4</sub>; Sodium Hydroxide Lot# 121809-NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH<sub>3</sub>COO)<sub>2</sub>ZN/NaOH. What time was preservative added to sample(s)? \_\_\_\_\_

[illegible]

## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-13731-1

Login Number: 13731

List Source: TestAmerica Canton

List Number: 1

Creator: Livengood, Chris

| Question                                                                         | Answer | Comment                      |
|----------------------------------------------------------------------------------|--------|------------------------------|
| Radioactivity either was not measured or, if measured, is at or below background | N/A    | REFER TO COOLER RECEIPT FORM |
| The cooler's custody seal, if present, is intact.                                | N/A    |                              |
| The cooler or samples do not appear to have been compromised or tampered with.   | N/A    |                              |
| Samples were received on ice.                                                    | N/A    |                              |
| Cooler Temperature is acceptable.                                                | N/A    |                              |
| Cooler Temperature is recorded.                                                  | N/A    |                              |
| COC is present.                                                                  | N/A    |                              |
| COC is filled out in ink and legible.                                            | N/A    |                              |
| COC is filled out with all pertinent information.                                | N/A    |                              |
| Is the Field Sampler's name present on COC?                                      | N/A    |                              |
| There are no discrepancies between the sample IDs on the containers and the COC. | N/A    |                              |
| Samples are received within Holding Time.                                        | N/A    |                              |
| Sample containers have legible labels.                                           | N/A    |                              |
| Containers are not broken or leaking.                                            | N/A    |                              |
| Sample collection date/times are provided.                                       | N/A    |                              |
| Appropriate sample containers are used.                                          | N/A    |                              |
| Sample bottles are completely filled.                                            | N/A    |                              |
| Sample Preservation Verified.                                                    | N/A    |                              |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | N/A    |                              |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | N/A    |                              |
| Multiphasic samples are not present.                                             | N/A    |                              |
| Samples do not require splitting or compositing.                                 | N/A    |                              |
| Residual Chlorine Checked.                                                       | N/A    |                              |