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## **Analytical Report**

### **Air Sampling Fluorochemical Report**

**DuPont Washington Works – Air Sampling Program Round 2** 11/12

**Exygen Research Report No. L0001308**

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#### ***Testing Laboratory***

Exygen Research  
3058 Research Drive  
State College, PA 16801

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#### ***Requester***

Michael D Aucoin  
URS Corporation  
Barley Mill Plaza  
Building 27 Room 1260  
Lancaster Pike and Rt 141  
Wilmington, DE 19805

ALL DATA CONTAINED IN THIS REPORT WAS GENERATED BY EXYGEN RESEARCH

## Summary

Seven solid media samples were received by Centre Analytical Laboratories, Inc. (dba Exygen Research) (Exygen) from DuPont Corporation. The media represent samples of air collected on OVS tubes. Please see Table 1 for a completed listing of samples received and field air volumes collected.

The samples were analyzed for Perfluorooctanoic Acid (C8 Acid) using liquid chromatography / mass spectrometry (LCMS). The method employed is entitled "Method of Analysis for the Determination of Perfluorooctanoic Acid (PFOA) in OVS Airtubes by LCMS" (James Miller, Exygen Research, February 17, 2003).

The OVS tubes were separated into three fractions for specific fluorochemical analysis. Fraction A consisted of the filter, backing material and plastic ring. Fraction B contained the first bed of XAD resin and the PUF backing. Fraction C contained the second bed of XAD resin and PUF backing. Fractions A and B were extracted with 1 mL of methanol. Fraction C was not analyzed but saved for possible future analysis. Perfluorodecanoic Acid (C10 Acid) was added as a surrogate spike to each fraction prior to extraction.

Instrument operating conditions can be found at the beginning of each analytical run. Raw instrument data is given in Appendix A. Chain-of-custody information can be found in Appendix B.

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## Results Summary

| Request #             | Air Volume Sampled (L) | C8 Acid (mg/m <sup>3</sup> ) |                                      |
|-----------------------|------------------------|------------------------------|--------------------------------------|
| WWK-A-AMS1-E2 A       | 1475                   | < 0.00007                    | $\mu\text{g}/\text{m}^3$<br><br>0.14 |
| WWK-A-AMS1-E2 B       | 1475                   | < 0.00007                    |                                      |
| WWK-A-AMS1-E2 C       | 1475                   | NA                           |                                      |
| WWK-A-AMS1-E2 (Total) |                        | < 0.00014                    |                                      |
| WWK-A-AMS2-E2 A       | 1468                   | 0.0009                       | 0.9                                  |
| WWK-A-AMS2-E2 B       | 1468                   | < 0.00007                    |                                      |
| WWK-A-AMS2-E2 C       | 1468                   | NA                           |                                      |
| WWK-A-AMS2-E2 (Total) |                        | 0.0009                       |                                      |
| WWK-A-AMS3-E2 A       | 1462                   | 0.0009                       | 0.9                                  |
| WWK-A-AMS3-E2 B       | 1462                   | < 0.00007                    |                                      |
| WWK-A-AMS3-E2 C       | 1462                   | NA                           |                                      |
| WWK-A-AMS3-E2 (Total) |                        | 0.0009                       |                                      |
| WWK-A-AMS4-E2 A       | 1437                   | < 0.00007                    | 0.14                                 |
| WWK-A-AMS4-E2 B       | 1437                   | < 0.00007                    |                                      |
| WWK-A-AMS4-E2 C       | 1437                   | NA                           |                                      |
| WWK-A-AMS4-E2 (Total) |                        | < 0.00014                    |                                      |
| WWK-A-AMS5-E2 A       | 1456                   | < 0.00007                    | 0.14                                 |
| WWK-A-AMS5-E2 B       | 1456                   | < 0.00007                    |                                      |
| WWK-A-AMS5-E2 C       | 1456                   | NA                           |                                      |
| WWK-A-AMS5-E2 (Total) |                        | < 0.00014                    |                                      |
| WWK-A-AMS6-E2 A       | 1422                   | < 0.00007                    | 0.14                                 |
| WWK-A-AMS6-E2 B       | 1422                   | < 0.00007                    |                                      |
| WWK-A-AMS6-E2 C       | 1422                   | NA                           |                                      |
| WWK-A-AMS6-E2 (Total) |                        | < 0.00014                    |                                      |

NA – Not Analyzed. B fraction was below the quantitation limit, therefore the backup fraction does not require analysis.

1. "<" is defined as not detected at or above the reported level.
2. Sample results have not been corrected for blank results or control spike recoveries.
3. Please note the following descriptions of the OVS sample tube fractions:

| Fraction | Fraction Description                 |
|----------|--------------------------------------|
| A        | Frit Extract                         |
| B        | 1st set beads extract                |
| C        | 2nd set beads extract (not analyzed) |

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## QC Data

### LCS

Please note: One control sample was spiked with each perfluorooctanoic acid to give a final concentration of 500 ppb. Air was pulled through the tube at a rate of 1-liter per minute for one hour (60 liters of air). The fractions were separated and analyzed. The acceptable range for control recovery is 75-125%.

| Request # | C8 Acid<br>(amount spiked - ppb) | C8 Acid<br>(amount recovered - ppb) | C8 Acid<br>(percent recovery) |
|-----------|----------------------------------|-------------------------------------|-------------------------------|
| Control 1 | 500                              | 503                                 | 101                           |

### Blanks

| Request #          | Vol. Of Air (L) | C8 Acid<br>(ug/fraction) |
|--------------------|-----------------|--------------------------|
| WWK-A-AMSFBLK-E2 A | 0               | < 0.10                   |
| WWK-A-AMSFBLK-E2 B | 0               | < 0.10                   |

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## Surrogates

A surrogate spike (C10 Acid) was added to all OVS tubes to give a final concentration of 500 ppb in the extract. Surrogate spike recoveries are given in the following table. There are no set criteria for surrogate spike recoveries. Advisory ranges are 75-125%.

| Sample #           | Amount Spiked<br>(ppb) | Amount Recovered<br>(ppb) | Percent Recovery<br>(%) |
|--------------------|------------------------|---------------------------|-------------------------|
| WWK-A-AMSFBLK-E2 A | 500                    | 644                       | 129*                    |
| WWK-A-AMSFBLK-E2 B | 500                    | 329                       | 66*                     |
| WWK-A-AMS1-E2 A    | 500                    | 707                       | 141*                    |
| WWK-A-AMS1-E2 B    | 500                    | 392                       | 78                      |
| WWK-A-AMS2-E2 A    | 500                    | 666                       | 133*                    |
| WWK-A-AMS2-E2 B    | 500                    | 405                       | 81                      |
| WWK-A-AMS3-E2 A    | 500                    | 666                       | 133*                    |
| WWK-A-AMS3-E2 B    | 500                    | 396                       | 79                      |
| WWK-A-AMS4-E2 A    | 500                    | 697                       | 139*                    |
| WWK-A-AMS4-E2 B    | 500                    | 403                       | 81                      |
| WWK-A-AMS5-E2 A    | 500                    | 732                       | 146*                    |
| WWK-A-AMS5-E2 B    | 500                    | 437                       | 87                      |
| WWK-A-AMS6-E2 A    | 500                    | 763                       | 153*                    |
| WWK-A-AMS6-E2 B    | 500                    | 375                       | 75                      |
| Control Spike A    | 500                    | 612                       | 122                     |
| Control Spike B    | 500                    | 392                       | 78                      |

\* Surrogate recovery outside of advisory range

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## Calculations

| Request #          | Vol. Of Air<br>(L) | C8 Acid<br>(raw-ppb) | C8 Acid<br>(ug/fraction) | C8 Acid<br>(mg/m3) |
|--------------------|--------------------|----------------------|--------------------------|--------------------|
| WWK-A-AMSFBLK-E2 A | 0                  | < 10                 | < 0.10                   |                    |
| WWK-A-AMSFBLK-E2 B | 0                  | < 10                 | < 0.10                   |                    |
| WWK-A-AMS1-E2 A    | 1475               | < 10                 | < 0.10                   | < 0.00007          |
| WWK-A-AMS1-E2 B    | 1475               | < 10                 | < 0.10                   | < 0.00007          |
| WWK-A-AMS2-E2 A    | 1468               | 1340                 | 1.3                      | 0.0009             |
| WWK-A-AMS2-E2 B    | 1468               | < 10                 | < 0.10                   | < 0.00007          |
| WWK-A-AMS3-E2 A    | 1462               | 1266                 | 1.3                      | 0.0009             |
| WWK-A-AMS3-E2 B    | 1462               | < 10                 | < 0.10                   | < 0.00007          |
| WWK-A-AMS4-E2 A    | 1437               | < 10                 | < 0.10                   | < 0.00007          |
| WWK-A-AMS4-E2 B    | 1437               | < 10                 | < 0.10                   | < 0.00007          |
| WWK-A-AMS5-E2 A    | 1456               | 49                   | < 0.10                   | < 0.00007          |
| WWK-A-AMS5-E2 B    | 1456               | < 10                 | < 0.10                   | < 0.00007          |
| WWK-A-AMS6-E2 A    | 1422               | < 10                 | < 0.10                   | < 0.00007          |
| WWK-A-AMS6-E2 B    | 1422               | < 10                 | < 0.10                   | < 0.00007          |
| Control Spike A    | 0                  | 454                  | 0.45                     |                    |
| Control Spike B    | 0                  | 49                   | < 0.10                   |                    |

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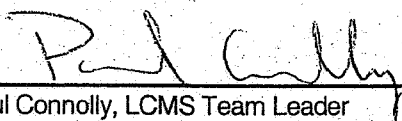
### Example Calculation

For sample WWK-A-AMS2-E2 A C8 Acid,

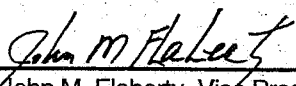
$$= \frac{[1340 \text{ ng/ml of C8 Acid} \times (1 \text{ ml}) \times (1 \text{ ug} / 1000 \text{ ng}) \times (1 \text{ mg} / 1000 \text{ ug})]}{[(1468 \text{ L}) \times (1 \text{ m}^3 / 1000 \text{ L})]}$$

$$= 0.0009 \text{ mg} / \text{m}^3$$

### Signatures

  
Paul Connolly, LCMS Team Leader

2/25/04  
Date

  
John M. Flaherty, Vice President

2/25/04  
Date

Other Lab Members Contributing to Data

James Miller

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Table 1. Login Information / Field Data

| Sample ID          | Exogen<br>Lab ID | Date Received | Description           | Air Volume<br>Sampled (L) |
|--------------------|------------------|---------------|-----------------------|---------------------------|
| WWK-A-AMSFBLK-E2 A | L0001308-1       | 11/13/03      | Frit extract          | 0                         |
| WWK-A-AMSFBLK-E2 B | L0001308-2       | 11/13/03      | 1st set beads extract | 0                         |
| WWK-A-AMSFBLK-E2 C | L0001308-3       | 11/13/03      | 2nd set beads extract | 0                         |
| WWK-A-AMS1-E2 A    | L0001308-4       | 11/13/03      | Frit extract          | 1475                      |
| WWK-A-AMS1-E2 B    | L0001308-5       | 11/13/03      | 1st set beads extract | 1475                      |
| WWK-A-AMS1-E2 C    | L0001308-6       | 11/13/03      | 2nd set beads extract | 1475                      |
| WWK-A-AMS2-E2 A    | L0001308-7       | 11/13/03      | Frit extract          | 1468                      |
| WWK-A-AMS2-E2 B    | L0001308-8       | 11/13/03      | 1st set beads extract | 1468                      |
| WWK-A-AMS2-E2 C    | L0001308-9       | 11/13/03      | 2nd set beads extract | 1468                      |
| WWK-A-AMS3-E2 A    | L0001308-10      | 11/13/03      | Frit extract          | 1462                      |
| WWK-A-AMS3-E2 B    | L0001308-11      | 11/13/03      | 1st set beads extract | 1462                      |
| WWK-A-AMS3-E2 C    | L0001308-12      | 11/13/03      | 2nd set beads extract | 1462                      |
| WWK-A-AMS4-E2 A    | L0001308-13      | 11/13/03      | Frit extract          | 1437                      |
| WWK-A-AMS4-E2 B    | L0001308-14      | 11/13/03      | 1st set beads extract | 1437                      |
| WWK-A-AMS4-E2 C    | L0001308-15      | 11/13/03      | 2nd set beads extract | 1437                      |
| WWK-A-AMS5-E2 A    | L0001308-16      | 11/13/03      | Frit extract          | 1456                      |
| WWK-A-AMS5-E2 B    | L0001308-17      | 11/13/03      | 1st set beads extract | 1456                      |
| WWK-A-AMS5-E2 C    | L0001308-18      | 11/13/03      | 2nd set beads extract | 1456                      |
| WWK-A-AMS6-E2 A    | L0001308-19      | 11/13/03      | Frit extract          | 1422                      |
| WWK-A-AMS6-E2 B    | L0001308-20      | 11/13/03      | 1st set beads extract | 1422                      |
| WWK-A-AMS6-E2 C    | L0001308-21      | 11/13/03      | 2nd set beads extract | 1422                      |
| Control Spike A    | L0001308-22      | 11/13/03      | Frit extract          | 0                         |
| Control Spike B    | L0001308-23      | 11/13/03      | 1st set beads extract | 0                         |
| Control Spike C    | L0001308-24      | 11/13/03      | 2nd set beads extract | 0                         |

Table 2. Chain of Custody

| Sample ID          | Date Collected | Date Received at Exygen | Date Extracted by Exygen | Date Analyzed by Exygen |
|--------------------|----------------|-------------------------|--------------------------|-------------------------|
| WWK-A-AMSFBLK-E2 A | 11/12/03       | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| WWK-A-AMSFBLK-E2 B | 11/12/03       | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| WWK-A-AMSFBLK-E2 C | 11/12/03       | 11/13/03                | NA                       | NA                      |
| WWK-A-AMS1-E2 A    | 11/12/03       | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| WWK-A-AMS1-E2 B    | 11/12/03       | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| WWK-A-AMS1-E2 C    | 11/12/03       | 11/13/03                | NA                       | NA                      |
| WWK-A-AMS2-E2 A    | 11/12/03       | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| WWK-A-AMS2-E2 B    | 11/12/03       | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| WWK-A-AMS2-E2 C    | 11/12/03       | 11/13/03                | NA                       | NA                      |
| WWK-A-AMS3-E2 A    | 11/12/03       | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| WWK-A-AMS3-E2 B    | 11/12/03       | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| WWK-A-AMS3-E2 C    | 11/12/03       | 11/13/03                | NA                       | NA                      |
| WWK-A-AMS4-E2 A    | 11/12/03       | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| WWK-A-AMS4-E2 B    | 11/12/03       | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| WWK-A-AMS4-E2 C    | 11/12/03       | 11/13/03                | NA                       | NA                      |
| WWK-A-AMS5-E2 A    | 11/12/03       | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| WWK-A-AMS5-E2 B    | 11/12/03       | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| WWK-A-AMS5-E2 C    | 11/12/03       | 11/13/03                | NA                       | NA                      |
| WWK-A-AMS6-E2 A    | 11/12/03       | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| WWK-A-AMS6-E2 B    | 11/12/03       | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| WWK-A-AMS6-E2 C    | 11/12/03       | 11/13/03                | NA                       | NA                      |
| Control Spike A    | NA             | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| Control Spike B    | NA             | 11/13/03                | 11/20/03                 | 11/20 - 11/21/03        |
| Control Spike C    | NA             | 11/13/03                | NA                       | NA                      |



3058 Research Drive  
State College, PA 16801

Phone: 814-272-1039  
Fax: 814-231-1580

## Login

Login Group: L0001308

Login #: L0001308 > 1,418  
Project: P0000419  
Project Storage:  
Submitted By: Michael D. Aucoin  
Status: Unreceived  
Login Type: Immediate Receipt of Samples  
Started: T  
Date Start: 11/14/2003 8:43:13AM  
Due Date: 11/28/2003  
Received Date: 11/14/2003  
Received By: AMMERMAN, MARK  
Spread Sample:  
Label:  
Project Title/Type: Analysis of PFOA in OVS Tubes / ROUTINE

Login Notes:  
Conform Notes:

## Packages / Containers

| <u>Package</u>      | <u>Carton</u>       | <u>Mail Date / Condition</u>                              | <u>Shipper / ID</u>       | <u>Temp. Control / Temperat</u> | <u>Direction / Handled By</u> |                |
|---------------------|---------------------|-----------------------------------------------------------|---------------------------|---------------------------------|-------------------------------|----------------|
| PK0001882           |                     | 11/13/2003 2:00:14PM<br>Package & Contents. Uncompromised | FEDEX<br>8363913020070200 | RT<br>0.00                      | RECEIVED<br>AMMERMAN, MARK    |                |
| <u>Container #</u>  | <u>Gross Weight</u> | <u>pH</u>                                                 | <u>Container Type</u>     | <u>Preservative</u>             | <u>Mfg. Lot</u>               | <u>Mfg. ID</u> |
| C0019829            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| C0019830            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| <del>C0019831</del> | <del>7.2 g</del>    |                                                           | Other                     | NONE                            |                               |                |
| C0019832            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| C0019833            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| <del>C0019834</del> | <del>7.2 g</del>    |                                                           | Other                     | NONE                            |                               |                |
| C0019835            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| C0019836            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| <del>C0019837</del> | <del>7.2 g</del>    |                                                           | Other                     | NONE                            |                               |                |
| C0019838            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| C0019839            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| <del>C0019840</del> | <del>7.2 g</del>    |                                                           | Other                     | NONE                            |                               |                |
| C0019841            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| C0019842            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| <del>C0019843</del> | <del>7.2 g</del>    |                                                           | Other                     | NONE                            |                               |                |
| C0019844            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| C0019845            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| <del>C0019846</del> | <del>7.2 g</del>    |                                                           | Other                     | NONE                            |                               |                |
| C0019847            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| C0019848            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| <del>C0019849</del> | <del>7.2 g</del>    |                                                           | Other                     | NONE                            |                               |                |
| C0019850            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| C0019851            | 7.2 g               |                                                           | Other                     | NONE                            |                               |                |
| <del>C0019852</del> | <del>7.2 g</del>    |                                                           | Other                     | NONE                            |                               |                |

## ICOC

scellaneous  
Item Key  
None

Description

0056



# Login

## Samples

| Sample ID                | Matrix | Fraction  | Sample                        |                                     | Date Sampled | Date Received | Date Due   |
|--------------------------|--------|-----------|-------------------------------|-------------------------------------|--------------|---------------|------------|
| 001308-0001              | GAS    | OVS Tubes | WWK-A-AMSFBLK-E2 A            | No C section<br>Extract A + B only. | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| <del>L0001308-0002</del> | GAS    | OVS Tubes | WWK-A-AMSFBLK-E2 B            |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| <del>L0001308-0003</del> | GAS    | OVS Tubes | <del>WWK-A-AMSFBLK-E2 C</del> |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| L0001308-0004            | GAS    | OVS Tubes | WWK-A-AMS1-E2 A               |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| L0001308-0005            | GAS    | OVS Tubes | WWK-A-AMS1-E2 B               |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| <del>L0001308-0006</del> | GAS    | OVS Tubes | <del>WWK-A-AMS1-E2 C</del>    |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| L0001308-0007            | GAS    | OVS Tubes | WWK-A-AMS2-E2 A               |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| L0001308-0008            | GAS    | OVS Tubes | WWK-A-AMS2-E2 B               |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| <del>L0001308-0009</del> | GAS    | OVS Tubes | <del>WWK-A-AMS2-E2 C</del>    |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| L0001308-0010            | GAS    | OVS Tubes | WWK-A-AMS3-E2 A               |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| L0001308-0011            | GAS    | OVS Tubes | WWK-A-AMS3-E2 B               |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| <del>L0001308-0012</del> | GAS    | OVS Tubes | <del>WWK-A-AMS3-E2 C</del>    |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| L0001308-0013            | GAS    | OVS Tubes | WWK-A-AMS4-E2 A               |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| L0001308-0014            | GAS    | OVS Tubes | WWK-A-AMS4-E2 B               |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| <del>L0001308-0015</del> | GAS    | OVS Tubes | <del>WWK-A-AMS4-E2 C</del>    |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| L0001308-0016            | GAS    | OVS Tubes | WWK-A-AMS5-E2 A               |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| L0001308-0017            | GAS    | OVS Tubes | WWK-A-AMS5-E2 B               |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| <del>L0001308-0018</del> | GAS    | OVS Tubes | <del>WWK-A-AMS5-E2 C</del>    |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| L0001308-0019            | GAS    | OVS Tubes | WWK-A-AMS6-E2 A               |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| L0001308-0020            | GAS    | OVS Tubes | WWK-A-AMS6-E2 B               |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| <del>L0001308-0021</del> | GAS    | OVS Tubes | <del>WWK-A-AMS6-E2 C</del>    |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| L0001308-0022            | GAS    | OVS Tubes | Control 1 A                   |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| L0001308-0023            | GAS    | OVS Tubes | Control 1 B                   |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |
| <del>L0001308-0024</del> | GAS    | OVS Tubes | <del>Control 1 C</del>        |                                     | 11/13/2003   | 11/13/2003    | 11/28/2003 |

0057



# Login

## Bottles

L0001308-0001

Container  
C0019829 / Other / NONE

Method

L0001308-0002

Container  
C0019830 / Other / NONE

Method

L0001308-0003

Container  
C0019831 / Other / NONE

Method

L0001308-0004

Container  
C0019832 / Other / NONE

Method

L0001308-0005

Container  
C0019833 / Other / NONE

Method

L0001308-0006

Container  
C0019834 / Other / NONE

Method

L0001308-0007

Container  
C0019835 / Other / NONE

Method

L0001308-0008

Container  
C0019836 / Other / NONE

Method

L0001308-0009

Container  
C0019837 / Other / NONE

Method

L0001308-0010

Container  
C0019838 / Other / NONE

Method

L0001308-0011

Container  
C0019839 / Other / NONE

Method

L0001308-0012

Container

Method

0058



# Login

C0019840 / Other / NONE

**L0001308-0013**

Container

C0019841 / Other / NONE

Method

**L0001308-0014**

Container

C0019842 / Other / NONE

Method

**L0001308-0015**

Container

C0019843 / Other / NONE

Method

**L0001308-0016**

Container

C0019844 / Other / NONE

Method

**L0001308-0017**

Container

C0019845 / Other / NONE

Method

**L0001308-0018**

Container

C0019846 / Other / NONE

Method

**L0001308-0019**

Container

C0019847 / Other / NONE

Method

**L0001308-0020**

Container

C0019848 / Other / NONE

Method

**L0001308-0021**

Container

C0019849 / Other / NONE

Method

**L0001308-0022**

Container

C0019850 / Other / NONE

Method

**L0001308-0023**

Container

C0019851 / Other / NONE

Method

**L0001308-0024**

Container

C0019852 / Other / NONE

Method

0059



# Login

0060



## PROJECT INFORMATION

**Client (name & address):**

ADAM  
DuPont Washington Works

Phone: (302) 842-1698

Fax: \_\_\_\_\_

Sampler: REK ALC-150

Please fill out this form *completely* to ensure correct analysis and proper handling of your samples.

SECRET

| ExyLIMS# | Client Sample Identification | Collection Date | Collection Time |
|----------|------------------------------|-----------------|-----------------|
|          | WWK-A-AMSFBK-E2              | 11/12/03        | 0709            |
|          | WWK-A-AMSI-E2                |                 | 0617            |
|          | WWK-A-AMS2-E2                |                 | 0623            |
|          | WWK-A-AMS3-E2                |                 | 0625            |
|          | WWK-A-AMS4-E2                |                 | 0638            |
|          | WWK-A-AMS5-E2                |                 | 0602            |
|          | WWK-A-AMS6-E2                | ✓               | 0650            |

LAB USE ONLY

[illegible][illegible]

# CHAIN OF CUSTODY

| Relinquished by                                                                       | Date     | Time |
|---------------------------------------------------------------------------------------|----------|------|
|  | 11/12/03 | 0717 |

LAB USE ONLY

### OTHER INFORMATION

Event 2

Cooler ID # 11000006 Cooler Temp. (°C) 14

Cooler Temp. (°C) 24

| Received by        | Date     | Time |
|--------------------|----------|------|
| <i>[Signature]</i> | 10/88/03 | 0830 |
| <i>[Signature]</i> | 11/12/03 | 0710 |
| <i>[Signature]</i> | 11/12/03 | 1400 |

LAB USE ONLY

## ANALYSES REQUESTED

[illegible]

## PROJECT REQUIREMENTS

**Results Deadline:**

### Laboratory Report Options:

- ☐ Sample results only
- ☐ Add case narrative
- ☐ Add quality control summary
- ☐ Add calibration summary
- ☐ Add raw data
- ☐ Other

## Sample "Condition Upon Receipt" Form

Protocol # 00078 0000417

Oxygen Study # 0001308

Date & Time Received 11/17/17 1400

Condition of Samples ambient

Temporary Storage Location 00002R3

Initials & Date 11/17/17

Waybill # 8363 9130 2007

Comments: - waiting for study number. 11/13/17

May 24, 2002/3

**FedEx** USA **Airbill**  
Express

Tracking Number **836391302007**

1 From  
Date 11/13/03  
Sender's Name AT&T Corp Phone 204 810-4477

Company AT&T  
Address 2000 E. 1st St. City Fort Worth State TX ZIP 76101  
City Fort Worth State TX ZIP 76101

2 Your Internal Billing Reference 204 810-4477

3 To  
Recipient's Name AT&T Phone 204 810-4477  
Company AT&T  
Address 2000 E. 1st St. City Fort Worth State TX ZIP 76101  
City Fort Worth State TX ZIP 76101



4a Express Package Service  
☒ FedEx Priority Overnight  
☐ FedEx Standard Overnight  
☐ FedEx First Overnight

☐ FedEx 2Day  
☐ FedEx Express Saver

4b Express Freight Service  
☐ FedEx 1Day Freight  
☐ FedEx 2Day Freight  
☐ FedEx 3Day Freight

5 Packaging  
☐ FedEx Envelope  
☐ FedEx Pak  
☒ Other

6 Special Handling  
☐ SATURDAY Delivery  
☐ HOLD Weekday  
☐ HOLD Saturday

7 Payment  
☒ Sender  
☐ Recipient  
☐ Third Party  
☐ Credit Card  
☐ Cash/Check

Total Packages 1 Total Weight 1 Total Declared Value \$ .00

8 Release Signature [Signature]

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.  
Questions? Visit our Web site at [fedex.com](http://fedex.com)  
or call 1.800.Go.FedEx 800.463.3332.  
Rev. Date 1/01/01 FedEx 444