June 7, 2021

MEMORANDUM

To: Karen Hays, Air Branch Chief
Through: James Boylan, Assistant Branch Chief
From: DeAnna Oser, Ambient Monitoring Program Manager

RE: South DeKalb and NR-285 December 23, 2020 – January 16, 2021 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station in December 2020 and January 2021. Samples were also collected at a nearby ambient monitoring station in January 2021 close to the interstate (NR-285) to see the impacts of mobile traffic on the ethylene oxide measurements. Each of the samples were sent to Eastern Research Group (ERG) for analysis. The sample listed as QA is a sample taken side by side during the same time period to compare the precision of the measurement. The code SC indicates that the sample was invalidated due to sampler contamination. The Qualifier code of “2” was given two samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Qualifier</th>
<th>EtO Concentration (ug/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>South DeKalb</td>
<td>12/23/2020</td>
<td></td>
<td>0.09</td>
</tr>
<tr>
<td>South DeKalb</td>
<td>12/29/2020</td>
<td></td>
<td>0.09</td>
</tr>
<tr>
<td>South DeKalb</td>
<td>01/04/2021</td>
<td></td>
<td>0.08</td>
</tr>
<tr>
<td>South DeKalb QA</td>
<td>01/04/2021</td>
<td>SC</td>
<td></td>
</tr>
<tr>
<td>South DeKalb</td>
<td>01/10/2021</td>
<td>2</td>
<td>0.17</td>
</tr>
<tr>
<td>South DeKalb</td>
<td>01/16/2021</td>
<td>2</td>
<td>0.13</td>
</tr>
<tr>
<td>NR-285</td>
<td>01/04/2021</td>
<td></td>
<td>0.07</td>
</tr>
<tr>
<td>NR-285</td>
<td>01/16/2021</td>
<td></td>
<td>0.11</td>
</tr>
</tbody>
</table>

Samples were also collected on a pressurized system at our South DeKalb monitoring station for comparison purposes on the dates listed below. These samples were also sent to Eastern Research Group for analysis. The sample listed as AK was due to a valve malfunction of the can at the laboratory. Samples listed in the table below as ND were reported below the method detection limit of 0.0515 ug/m³. The qualifier code "U" was given by ERG to indicate that the sample is under the detection limit. Please note that ERG is now providing values for levels below the detection limit.
<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Qualifier</th>
<th>EtO Concentration (ug/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>South DeKalb</td>
<td>12/23/2020</td>
<td></td>
<td>0.10</td>
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<tr>
<td>pressurized</td>
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</tr>
<tr>
<td>South DeKalb</td>
<td>12/29/2020</td>
<td></td>
<td>AK</td>
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<tr>
<td>pressurized</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>South DeKalb</td>
<td>01/10/2021</td>
<td>U, ND</td>
<td>0</td>
</tr>
<tr>
<td>pressurized</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>South DeKalb</td>
<td>01/16/2021</td>
<td>2</td>
<td>0.05</td>
</tr>
<tr>
<td>pressurized</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If you have any questions, please let me know.

DGO/do
March 04, 2021

Ms. Jaime Gore
U.S. Environmental Protection Agency, Region 4
4244 International Pkwy, Suite 120
Atlanta, GA 30354
Project Name: GA EtO

Dear Ms. Jaime Gore,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 01/06/21 11:45 through 01/27/21 12:23.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a “U” flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). All analyses were performed as described in the US EPA-approved QAPP, under the contract for UATMP, NATTS, CSATAM, PAMS and NMOC support (US EPA Contract No. EP-D-14-030). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager’s designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly prohibited. If you have received this report in error, please notify julie.swift@erg.com and delete the report without retaining any copies.
CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4
4244 International Pkwy, Suite 120
Atlanta, GA 30354

ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912  FAX: (919) 541-0516

FILE #: 4022.00
REPORTED: 03/04/21 16:00
SUBMITTED: 01/06/21 to 01/27/21
AQS SITE CODE: GA EtO
SITE CODE: GA EtO

ANALYTICAL REPORT FOR SAMPLES

<table>
<thead>
<tr>
<th>SampleName</th>
<th>LabNumber</th>
<th>Matrix</th>
<th>Sampled</th>
<th>Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Dekalb</td>
<td>1010628-01</td>
<td>Air</td>
<td>12/23/20 23:59</td>
<td>01/06/21 11:45</td>
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<tr>
<td>South Dekalb-Atec</td>
<td>1010721-01</td>
<td>Air</td>
<td>12/23/20 23:59</td>
<td>01/07/21 11:51</td>
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<tr>
<td>South Dekalb</td>
<td>1011328-02</td>
<td>Air</td>
<td>12/29/20 23:59</td>
<td>01/13/21 13:42</td>
</tr>
<tr>
<td>South Dekalb</td>
<td>1011328-03</td>
<td>Air</td>
<td>01/04/21 23:59</td>
<td>01/13/21 13:42</td>
</tr>
<tr>
<td>South Dekalb QA</td>
<td>1011328-04</td>
<td>Air</td>
<td>01/04/21 23:59</td>
<td>01/13/21 13:42</td>
</tr>
<tr>
<td>NR285</td>
<td>1011328-05</td>
<td>Air</td>
<td>01/04/21 23:59</td>
<td>01/13/21 13:42</td>
</tr>
<tr>
<td>South Dekalb-Atec</td>
<td>1012128-01</td>
<td>Air</td>
<td>01/10/21 23:59</td>
<td>01/21/21 14:45</td>
</tr>
<tr>
<td>South Dekalb</td>
<td>1012128-02</td>
<td>Air</td>
<td>01/10/21 23:59</td>
<td>01/21/21 14:45</td>
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<tr>
<td>South Dekalb</td>
<td>1012725-01</td>
<td>Air</td>
<td>01/16/21 23:59</td>
<td>01/27/21 12:23</td>
</tr>
<tr>
<td>South Dekalb-Atec</td>
<td>1012725-02</td>
<td>Air</td>
<td>01/16/21 23:59</td>
<td>01/27/21 12:23</td>
</tr>
<tr>
<td>NR285</td>
<td>1012725-03</td>
<td>Air</td>
<td>01/16/21 23:59</td>
<td>01/27/21 12:23</td>
</tr>
</tbody>
</table>

Eastern Research Group

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PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4022.00
REPORTED: 03/04/21 16:00
SUBMITTED: 01/06/21 to 01/27/21
AQS SITE CODE: GA EtO

Description: South Dekalb
Pressure @ Receipt: 3.00" Hg
Comments: Analyzed: 01/13/21 02:53

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results ppbv</th>
<th>MDL ppbv</th>
<th>Flag ug/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.0503</td>
<td>0.0285</td>
<td>0.09</td>
</tr>
</tbody>
</table>

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**Air Toxics by EPA Compendium Method TO-15**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.0571</td>
<td>0.10</td>
</tr>
<tr>
<td>Flag</td>
<td>0.0285</td>
<td></td>
</tr>
</tbody>
</table>

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4
4244 International Pkwy, Suite 120
Atlanta, GA 30354
ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912  FAX: (919) 541-0516

FILE #: 4022.00
REPORTED: 03/04/21 16:00
SUBMITTED: 01/06/21 to 01/27/21
AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb
Pressure @ Receipt: 3.50" Hg
Comments:

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.0506</td>
<td>0.0285</td>
</tr>
</tbody>
</table>

Air Toxics by EPA Compendium Method TO-15

Received: 01/21/21 13:42
Sampled: 12/20/20 23:59
Received: 01/13/21 13:42
Sampled: 12/20/20 23:59

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ATTN: Ms. Jaime Gore
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FILE #: 4022.00
REPORTED: 03/04/21 16:00
SUBMITTED: 01/06/21 to 01/27/21
AQS SITE CODE:
SITE CODE: GA EtO

Description: South Dekalb
Pressure @ Receipt: 2.00” Hg
Comments: 

Lab ID: 1011328-03
Canister #: 35152

Sampled: 01/04/21 23:59
Received: 01/13/21 13:42
Analyzed: 01/19/21 16:46

## Air Toxics by EPA Compendium Method TO-15

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.0447</td>
<td>0.08</td>
</tr>
</tbody>
</table>

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FILE #: 4022.00
REPORTED: 03/04/21 16:00
SUBMITTED: 01/06/21 to 01/27/21
AQS SITE CODE:

4244 International Pkwy, Suite 120
Atlanta, GA 30354

ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912  FAX: (919) 541-0516

Description: South Dekalb QA
Lab ID: 1011328-04
Sampled: 01/04/21 23:59

Pressure @ Receipt: 0.00" Hg
Canister #: 35124
Received: 01/13/21 13:42

Comments: Canister received at ambient.
Analyzed: 01/19/21 18:37

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>ND</td>
<td>0.0285</td>
</tr>
<tr>
<td></td>
<td>ND</td>
<td>CE</td>
</tr>
</tbody>
</table>

Air Toxics by EPA Compendium Method TO-15

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FILE #: 4022.00
REPORTED: 03/04/21 16:00
SUBMITTED: 01/06/21 to 01/27/21

AQS SITE CODE:
SITE CODE: GA Eto

Description: NR285  Lab ID: 1011328-05  Sampled: 01/04/21 23:59
Pressure @ Receipt: 18.75 psi  Canister #: SAT053  Received: 01/13/21 13:42

Comments: Analyzed: 01/19/21 20:27

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppbv</td>
<td>ug/m³</td>
</tr>
<tr>
<td>Ethylene oxide</td>
<td>0.0397</td>
<td>0.07</td>
</tr>
</tbody>
</table>

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Atlanta, GA 30354  

**ATTN:** Ms. Jaime Gore  
**PHONE:** (404) 362-4912  
**FAX:** (919) 541-0516

**FILE #:** 4022.00  
**REPORTED:** 03/04/21 16:00  

**SUBMITTED:** 01/06/21 to 01/27/21  
**AQS SITE CODE:**

**SITE CODE:** GA EtO

---

**Description:** South Dekalb-Atec  
**Lab ID:** 1012128-01  
**Pressure @ Receipt:** 11.75" psi  
**Canister #:** 33309  
**Received:** 01/21/21 14:45  
**Sampled:** 01/10/21 23:59  
**Comments:** Analyzed: 01/23/21 00:57

---

### Air Toxics by EPA Compendium Method TO-15

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppbv</td>
<td>ug/m³</td>
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<tr>
<td>Ethylene oxide</td>
<td>ND</td>
<td>ND</td>
</tr>
</tbody>
</table>

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Certification of Analysis

U.S. Environmental Protection Agency, Region 4
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Atlanta, GA 30354

ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912  FAX: (919) 541-0516

FILE #: 4022.00
REPORTED: 03/04/21 16:00
SUBMITTED: 01/06/21 to 01/27/21
AQS SITE CODE:
SITEM CODE: GA EtO

Description: South Dekalb
Pressure @ Receipt: 0" Hg
Comments:

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results (ppbv)</th>
<th>ug/m³</th>
<th>Flag</th>
<th>MDL (ppbv)</th>
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</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.0946</td>
<td>0.17</td>
<td></td>
<td>0.0285</td>
</tr>
</tbody>
</table>

Received: 01/21/21 14:45
Sampled: 01/10/21 23:59
Received: 01/21/21 14:45
Analyzed: 01/23/21 02:48

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# Certificate of Analysis

**U.S. Environmental Protection Agency, Region 4**  
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**ATTN:** Ms. Jaime Gore  
 PHONE: (404) 362-4912  
 FAX: (919) 541-0516

**FILE #:** 4022.00  
**REPORTED:** 03/04/21 16:00  
**SUBMITTED:** 01/06/21 to 01/27/21  
**AQS SITE CODE:**

---

**Description:** South Dekalb  
**Lab ID:** 1012725-01  
**Sampled:** 01/16/21 23:59  
**Received:** 01/21/21 12:23  
**Canister #:** A21108  
**Received at Ambient**  
**Canister #:** A21108  
**Received at Ambient**  
**Canister #:** A21108  
**Received at Ambient**  
**Canister #:** A21108  
**Received at Ambient**

---

**Pressure @ Receipt:** 0" Hg  
**Comments:**

---

**Results**  
**MDL**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results ppbv</th>
<th>ug/m³</th>
<th>Flag</th>
<th>MDL ppbv</th>
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</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.0718</td>
<td>0.13</td>
<td></td>
<td>0.0285</td>
</tr>
</tbody>
</table>

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---

Eastern Research Group
**CERTIFICATE OF ANALYSIS**

**U.S. Environmental Protection Agency, Region 4**

**4244 International Pkwy, Suite 120**

**Atlanta, GA 30354**

**ATTN:** Ms. Jaime Gore

**PHONE:** (404) 362-4912  **FAX:** (919) 541-0516

---

**FILE #:** 4022.00

**REPORTED:** 03/04/21 16:00

**SUBMITTED:** 01/06/21 to 01/27/21

**AQS SITE CODE:**

---

**SITE CODE:** GA EtO

---

**Description:** South Dekalb-Atec  
**Lab ID:** 1012725-02  
**Sampled:** 01/16/21 23:59

**Pressure @ Receipt:** 11.50 psi  
**Canister #:** 33496  
**Received:** 01/27/21 12:23

**Comments:**

---

**Air Toxics by EPA Compendium Method TO-15**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
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<tbody>
<tr>
<td></td>
<td>ppbv</td>
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<tr>
<td>Ethylene oxide</td>
<td>0.0287</td>
<td>0.05</td>
</tr>
</tbody>
</table>

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ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912  FAX: (919) 541-0516

FILE #: 4022.00
REPORTED: 03/04/21 16:00
SUBMITTED: 01/06/21 to 01/27/21
AQS SITE CODE: GA EtO

Description: NR285  Lab ID: 1012725-03  Sampled: 01/16/21 23:59
Pressure @ Receipt: 18.5 psi  Canister #: 35157  Received: 01/27/21 12:23
Comments: Analyzed: 02/03/21 02:49

Air Toxics by EPA Compendium Method TO-15

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
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<tbody>
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<td></td>
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<td>0.0285</td>
</tr>
</tbody>
</table>

Eastern Research Group

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CERTIFICATE OF ANALYSIS

FILE #: 4022.00
REPORTED: 03/04/21 16:00
SUBMITTED: 01/06/21 to 01/27/21
AQS SITE CODE: GA EtO
SITE CODE: 4244 International Pkwy, Suite 120
ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912  FAX: (919) 541-0516

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>Source</th>
<th>RPD</th>
<th>RPD Limit</th>
<th>Notes</th>
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<tr>
<td><strong>Air Toxics by EPA Compendium Method TO-15 - Quality Control</strong></td>
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<tr>
<td><strong>Batch B1A1207 - Summa Canister Prep</strong></td>
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<tr>
<td>Blank (B1A1207-BLK1)</td>
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<td>Ethylene oxide</td>
<td>ND</td>
<td>ppbv</td>
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<td></td>
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<tr>
<td>Duplicate (B1A1207-DUP2)</td>
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<td>Ethylene oxide</td>
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<td>ppbv</td>
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<td>Duplicate (B1A1207-DUP3)</td>
<td>Source: 1010721-01</td>
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<tr>
<td>Ethylene oxide</td>
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<td>ppbv</td>
<td>0.06</td>
<td>2.25</td>
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<tr>
<td><strong>Batch B1A1407 - Summa Canister Prep</strong></td>
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The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eastern Research Group
## Air Toxics by EPA Compendium Method TO-15 - Quality Control

### Sequence 2101019

<table>
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<th>Analyte Notes</th>
<th>Result</th>
<th>Units</th>
<th>% Difference</th>
<th>Limit (%)</th>
<th>Notes</th>
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</table>

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4
4244 International Pkwy, Suite 120
Atlanta, GA 30354

ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4022.00
REPORTED: 03/04/21 16:00
SUBMITTED: 01/06/21 to 01/27/21
AQS SITE CODE: GA EtO
SITE CODE: GA EtO

Notes and Definitions

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<tr>
<th>U</th>
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<td>ND</td>
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<tr>
<td>NR</td>
<td>Not Reported</td>
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<td>MDL</td>
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<td>RPD</td>
<td>Relative Percent Difference</td>
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<td>CE</td>
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Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.
Note:
1. ND = Non-Detect
2. X = Not Analyzed
3. AP = Sampler stolen from site

Ethylene Oxide Sampling
DeKalb County, GA
01/04/2021
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group