

July 26, 2013

Republic Services
ATTN: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044



DoD ELAP
ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: Bridgeton Landfill
Lab Number: E072301-01/06

Enclosed are results for sample(s) received 7/23/13 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

Results were e-mailed to Mike Lambrich on 7/24/13.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark Johnson'.

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.



18501 E. Gale Ave., Suite 130
 City of Industry, CA 91748
 Ph: 626-964-4032
 Fx: 626-964-5832

Project No.: North Quarry Samples
 Project Name: Bridgeton Landfill
 Report To: Mike Lambich
 Company: Republic Services
 Street: 13570 St. Charles Rock Rd.
 City/State/Zip: Bridgeton, MO 63044
 Phone & Fax: 314-683-3921
 e-mail: MLambich@republicservices.com

CHAIN OF CUSTODY RECORD

TURNAROUND TIME
 Standard 48 hours
 Same Day 72 hours
 24 hours 96 hours
 Other: _____

DELIVERABLES
 EDD
 EDF
 LEVEL 3
 LEVEL 4

OF
 Condition upon receipt: Sealed Yes No
 Intact Yes No
 Chilled _____ deg C

ANALYSIS REQUEST

| | | | |
|-----------------------------------|-------------|----------------------------|----------------|
| P.O. No.: <u>PO 3555659</u> | | BILLING | |
| Bill to: <u>Republic Services</u> | | ATTN: <u>Brian Power</u> | |
| <u>13570 St. Charles Rock Rd</u> | | <u>Bridgeton, MO 63044</u> | |
| SAMPLE DATE | SAMPLE TIME | MATRIX | CONTAINER TYPE |
| 7/22/13 | 10:01 | LFG | C |
| 7/22/13 | 10:10 | LFG | C |
| 7/22/13 | 10:19 | LFG | C |
| 7/22/13 | 10:29 | LFG | C |
| 7/22/13 | 10:51 | LFG | C |
| 7/22/13 | 10:59 | LFG | C |

D1946 & CO, HZ

SAMPLE IDENTIFICATION

| LAB USE ONLY | SAMPLE IDENTIFICATION |
|-------------------|-----------------------|
| <u>E072801-01</u> | <u>GEW 43R</u> |
| <u>-02</u> | <u>GEW 41R</u> |
| <u>-03</u> | <u>GEW 40</u> |
| <u>-04</u> | <u>GEW 55</u> |
| <u>-05</u> | <u>GEW 54</u> |
| <u>-06</u> | <u>GEW 53</u> |

COMMENTS

AUTHORIZATION TO PERFORM WORK
 SAMPLED BY: Dave Renover COMPANY: Republic Services DATE/TIME: 7/22/13
 RELINQUISHED BY: Mike Lambich COMPANY: Republic Services DATE/TIME: 7/22/13
 RECEIVED BY: FED EX DATE/TIME: 7/23/13
 RELINQUISHED BY: FED EX DATE/TIME: 7/23/13 RECEIVED BY: Jeff DATE/TIME: 7/23/13
 RELINQUISHED BY: _____ DATE/TIME: _____ RECEIVED BY: _____ DATE/TIME: _____

METHOD OF TRANSPORT (circle one): Walk-In (FedEx) UPS Courier ATLI Other _____

Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: North Quarry Samples
Date Received: 07/23/13
Matrix: Air
Reporting Units: % v/v

ASTM D1946

| Lab No.: | E072301-01 | E072301-02 | E072301-03 | E072301-04 | | | | |
|---------------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| Client Sample I.D.: | GEW 43R | GEW 41R | GEW 40 | GEW 55 | | | | |
| Date Sampled: | 07/22/13 | 07/22/13 | 07/22/13 | 07/22/13 | | | | |
| Date Analyzed: | 07/23/13 | 07/23/13 | 07/23/13 | 07/23/13 | | | | |
| QC Batch No.: | 130723GC8A1 | 130723GC8A1 | 130723GC8A1 | 130723GC8A1 | | | | |
| Analyst Initials: | MJ | MJ | MJ | MJ | | | | |
| Dilution Factor: | 3.6 | 3.6 | 3.5 | 3.6 | | | | |
| ANALYTE | Result % v/v | RL % v/v | Result % v/v | RL % v/v | Result % v/v | RL % v/v | Result % v/v | RL % v/v |
| Hydrogen | ND | 3.6 | ND | 3.6 | ND | 3.5 | 3.9 | 3.6 |
| Carbon Dioxide | 38 | 0.036 | 40 | 0.036 | 36 | 0.035 | 38 | 0.036 |
| Oxygen/Argon | ND | 1.8 | ND | 1.8 | 4.9 | 1.7 | ND | 1.8 |
| Nitrogen | 7.0 | 3.6 | ND | 3.6 | 18 | 3.5 | 5.2 | 3.6 |
| Methane | 52 | 0.0036 | 57 | 0.0036 | 41 | 0.0035 | 51 | 0.0036 |
| Carbon Monoxide | ND | 0.0036 | ND | 0.0036 | ND | 0.0035 | ND | 0.0036 |
| | | | | | | | | |

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson

Mark Johnson
Operations Manager

Date 7-23-13

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: North Quarry Samples
Date Received: 07/23/13
Matrix: Air
Reporting Units: % v/v

ASTM D1946

| Lab No.: | E072301-05 | E072301-06 | | | | | | |
|---------------------|-----------------|-------------|-----------------|-------------|--|--|--|--|
| Client Sample I.D.: | GEW 54 | GEW 53 | | | | | | |
| Date Sampled: | 07/22/13 | 07/22/13 | | | | | | |
| Date Analyzed: | 07/23/13 | 07/23/13 | | | | | | |
| QC Batch No.: | 130723GC8A1 | 130723GC8A1 | | | | | | |
| Analyst Initials: | MJ | MJ | | | | | | |
| Dilution Factor: | 3.5 | 3.6 | | | | | | |
| ANALYTE | Result % v/v | RL % v/v | Result % v/v | RL % v/v | | | | |
| Hydrogen | 6.6 | 3.5 | ND | 3.6 | | | | |
| Carbon Dioxide | 39 | 0.035 | 35 | 0.036 | | | | |
| Oxygen/Argon | ND | 1.7 | ND | 1.8 | | | | |
| Nitrogen | ND | 3.5 | 11 | 3.6 | | | | |
| Methane | 50 | 0.0035 | 49 | 0.0036 | | | | |
| Carbon Monoxide | 0.0035 | 0.0035 | 0.0046 | 0.0036 | | | | |

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 7-23-13

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QC Batch No.: 130723GC8A1

Matrix: Air

Units: % v/v

QC for ASTM D1946

| Lab No.: | Method Blank | LCS | LCS D | | | | | |
|-------------------|--------------|----------|----------|----------|--------|----------|------|----------|
| Date Analyzed: | 07/23/13 | 07/23/13 | 07/23/13 | | | | | |
| Analyst Initials: | MJ | MJ | MJ | | | | | |
| Datafile: | 23jul009 | 23jul005 | 23jul006 | | | | | |
| Dilution Factor: | 1.0 | 1.0 | 1.0 | | | | | |
| ANALYTE | Results | RL | % Rec. | Criteria | % Rec. | Criteria | %RPD | Criteria |
| Hydrogen | ND | 1.0 | 101 | 70-130% | 99 | 70-130% | 2.5 | <30 |
| Carbon Dioxide | ND | 0.010 | 90 | 70-130% | 88 | 70-130% | 1.9 | <30 |
| Oxygen/Argon | ND | 0.50 | 102 | 70-130% | 101 | 70-130% | 1.8 | <30 |
| Nitrogen | ND | 1.0 | 100 | 70-130% | 98 | 70-130% | 1.8 | <30 |
| Methane | ND | 0.0010 | 96 | 70-130% | 96 | 70-130% | 0.4 | <30 |
| Carbon Monoxide | ND | 0.0010 | 102 | 70-130% | 101 | 70-130% | 0.9 | <30 |
| | | | | | | | | |

ND = Not Detected (Below RL)

Reviewed/Approved By:



Mark J. Johnson
Operations Manager

Date:

7-23-13

The cover letter is an integral part of this analytical report



AirTECHNOLOGY Laboratories, Inc.

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