



December 19, 2016

Dawn Templin, PE, Supervisor
Florida Department of Environmental Protection
Northwest District Office
Solid Waste Section
160 W. Government Street, Suite 308
Pensacola, Florida 32502

RE: Jackson County East Landfill
Fourth Quarter 2016 Landfill Gas Monitoring Report
Jones Edmunds Project No.: 10170-019-01

Dear Ms. Templin:

Jones Edmunds & Associates, Inc. conducted the Fourth Quarter 2016 gas-monitoring at the Jackson County East Landfill on November 28, 2016. Measurements were collected from the following locations which are displayed on the map included as Attachment 1 to this letter:

- Six gas monitoring wells installed along the western and northern property boundaries of the landfill (GMW-1 through GMW-6).
- Ten bang-bar probes conducted along the eastern property boundary and southern boundaries of the waste disposal area (BP-1 through BP-10).
- The 36 gas vents installed into the waste disposal area of the landfill (GV-1 through GV-36).
- Five gas monitoring wells installed along the western boundary of the waste disposal area (GMW-7 through GWM-11).
- The shed that is located onsite.

Attachment 2 is a historical table of measured gas concentrations including the Fourth Quarter 2016 results. Field sheets and calibration results are included as Attachment 3.

Methane exceeded the LEL in property-line gas monitoring wells GWM-4 and GWM-5 and was reported at concentrations below the LEL in GMW-6.

Methane exceeded the LEL in western boundary waste disposal area gas monitoring wells GWM-7 and GWM-10. Methane below the LEL was reported in GMW-8, GWM-9, and GMW-11.

Methane concentrations in both the property-line wells and the western boundary waste disposal area wells were generally higher than reported during the last event.

Figure 1 charts the Methane concentration in the six perimeter gas monitoring wells since 2010.

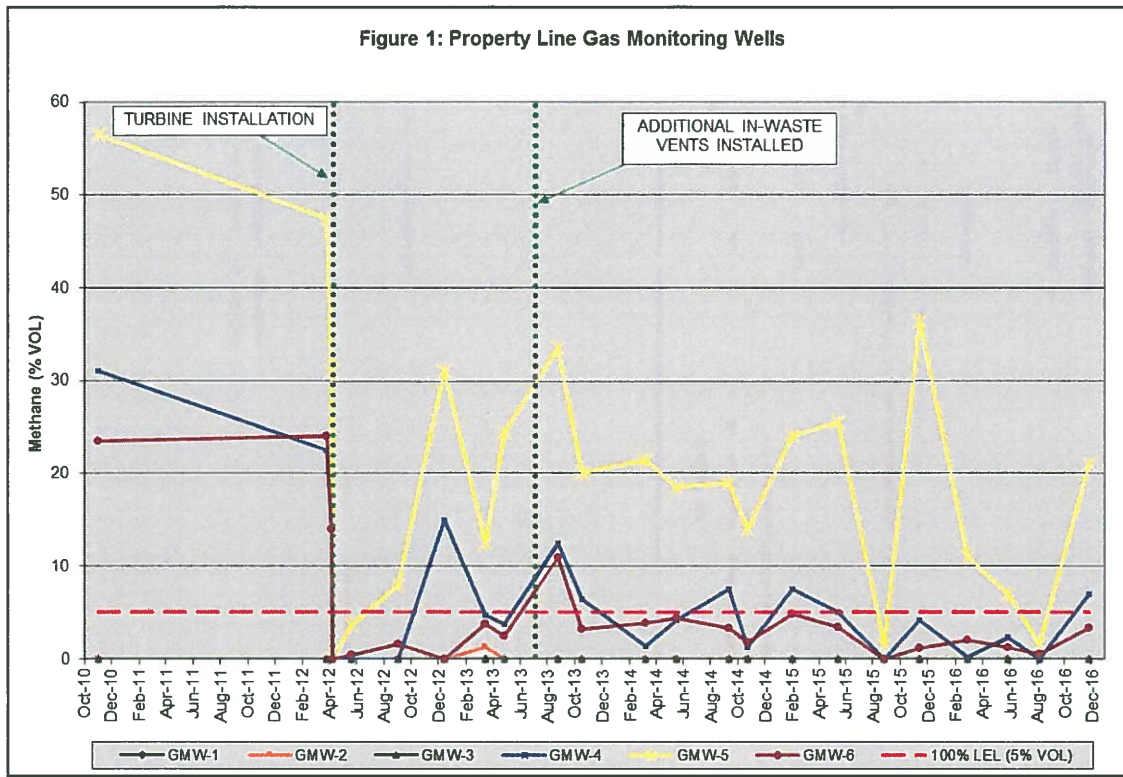
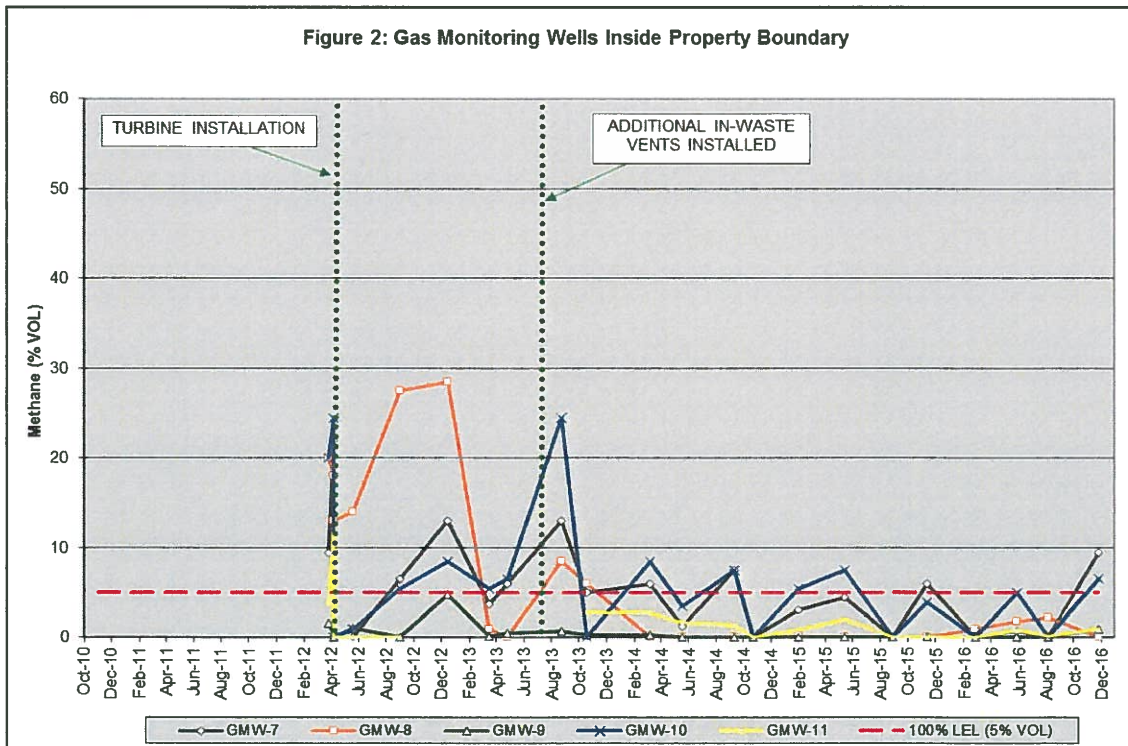


Figure 2 charts the Methane concentration in the five inside-the-property-boundary gas monitoring wells since their installation in 2012.



Although landfill gas concentrations for this event are generally higher across the site than during the past 3 events, the system continues to vent substantial amounts of landfill gas and concentrations are lower than historical highs.

As required by permit, quarterly landfill gas monitoring will continue. Please contact me at 352-377-5821, if you have any questions or comments.

Sincerely,



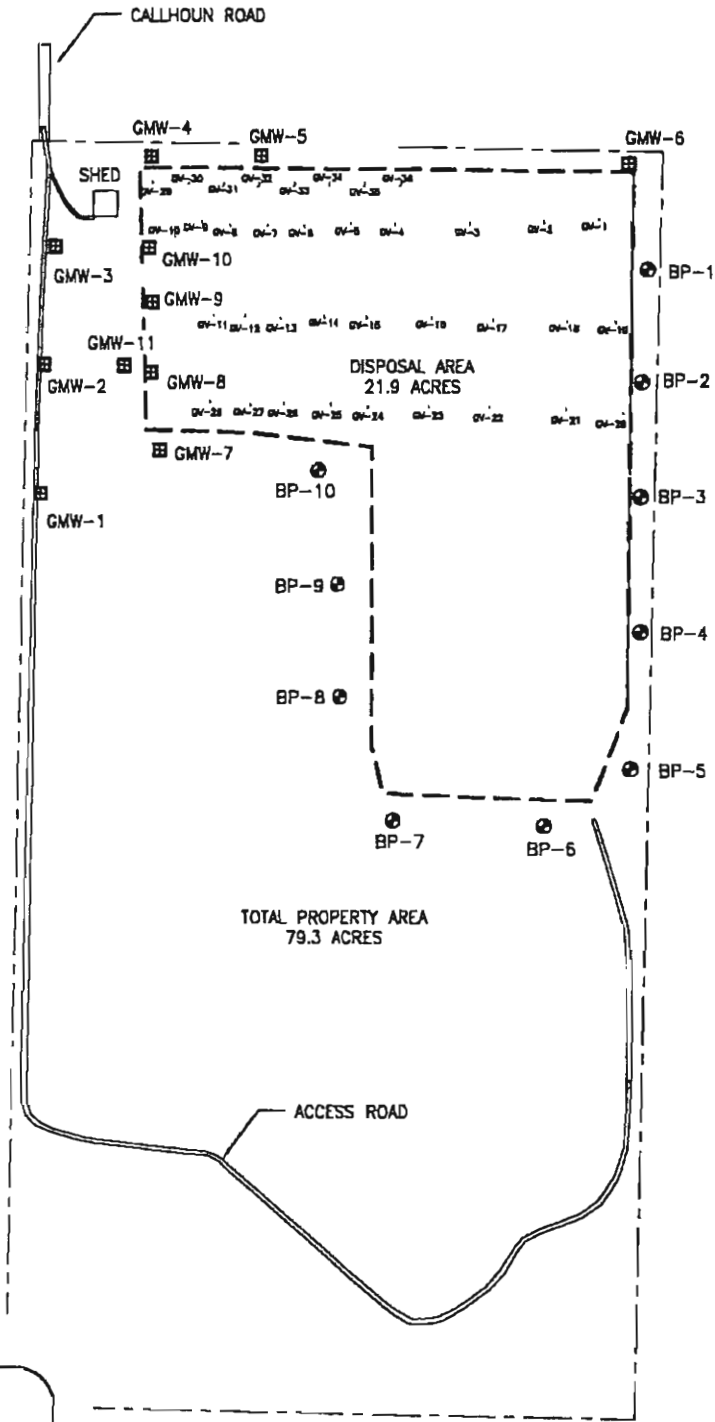
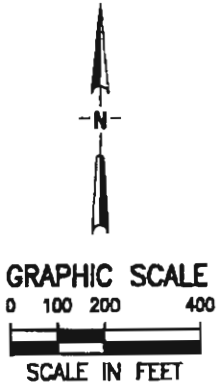
Elizabeth Kennelly, MS
Project Manager

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Attachments

ATTACHMENT 1

Site Map



| LEGEND | |
|---------|-------------------------|
| ⊕ BP-9 | BANG BAR PROBE LOCATION |
| ⊠ GMW-1 | GAS MONITOR WELL |
| --- | PROPERTY BOUNDARY |
| - - - - | WASTE DISPOSAL AREA |

LANDFILL GAS
MONITORING NETWORK
JACKSON COUNTY EAST LANDFILL
JACKSON COUNTY, FLORIDA



ATTACHMENT 2

Landfill Gas Concentrations Table

Table 1
Jackson East County Landfill
Gas System Measurements

| Station ID | Fourth Quarter 2012 | | | | First Quarter 2013 | | | | Second Quarter 2013 | | | |
|------------|---------------------|-----------------|---------|---------|--------------------|-----------------|---------|---------|---------------------|-----------------|---------|---------|
| | 12/17/2012 | | | | 3/19/2013 | | | | 4/29/2013 | | | |
| | O ₂ | CO ₂ | Methane | | O ₂ | CO ₂ | Methane | | O ₂ | CO ₂ | Methane | |
| | % Volume | % Volume | %LEL | %Volume | % Volume | % Volume | %LEL | %Volume | % Volume | % Volume | %LEL | %Volume |
| GMW-1 | 7.9 | 7.8 | 0.0 | - | 14.4 | 4.2 | 0.0 | - | 12.1 | 4.8 | 0.0 | - |
| GMW-2 | 12.0 | 8.4 | 0.0 | - | 20.5 | 0.0 | 24.5 | - | 20.4 | 0.6 | 0.0 | - |
| GMW-3 | 9.1 | 13.2 | 0.0 | - | 18.0 | 2.2 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GMW-4 | 0.3 | 20.0 | - | 15.0 | 1.7 | 12.0 | 95.0 | - | 10.3 | 9.0 | 75.0 | - |
| GMW-5 | 0.0 | 27.4 | - | 31.0 | 1.6 | 15.2 | - | 12.5 | 1.0 | 22.4 | - | 24.5 |
| GMW-6 | 20.7 | 0.0 | 0.0 | - | 6.0 | 9.6 | 75.0 | - | 2.2 | 14.8 | 49.0 | - |
| GMW-7 | 0.0 | 26.0 | - | 13.0 | 5.5 | 14.2 | 74.0 | - | 0.0 | 20.0 | - | 6.0 |
| GMW-8 | 0.0 | 30.0 | - | 28.5 | 19.3 | 1.0 | 18.0 | - | 20.9 | 0.0 | 0.0 | - |
| GMW-9 | 15.0 | 5.0 | 95.0 | - | 19.7 | 0.4 | 4.0 | - | 19.5 | 1.0 | 10.0 | - |
| GMW-10 | 1.9 | 19.6 | - | 8.5 | 4.9 | 15.0 | - | 5.5 | 1.9 | 9.2 | - | 6.5 |
| GMW-11 | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| GV-1 | 11.4 | 14.6 | - | 26.5 | 20.9 | 0.4 | 0.0 | - | 18.6 | 0.8 | 0.0 | - |
| GV-2 | 8.2 | 26.0 | - | 36.0 | 20.9 | 0.0 | 0.0 | - | 2.4 | 28.8 | - | 58.0 |
| GV-3 | 7.5 | 22.4 | - | 36.0 | 20.9 | 0.0 | 0.0 | - | 18.2 | 0.8 | 44.0 | - |
| GV-4 | 1.3 | 37.4 | - | 64.5 | 20.9 | 0.0 | 0.0 | - | 5.0 | 26.8 | - | 55.5 |
| GV-5 | 8.1 | 19.4 | - | 23.5 | 20.9 | 0.0 | 1.0 | - | 7.1 | 20.8 | - | 52.0 |
| GV-6 | 0.0 | 34.4 | - | 66.0 | 13.5 | 4.6 | 24.0 | - | 18.6 | 1.2 | 22.0 | - |
| GV-7 | 12.2 | 12.4 | - | 19.5 | 20.9 | 0.4 | 5.0 | - | 18.6 | 0.8 | 6.0 | - |
| GV-8 | 0.0 | 40.2 | - | 64.0 | 20.9 | 0.0 | 0.0 | - | 0.0 | 37.8 | - | 71.0 |
| GV-9 | 2.4 | 28.8 | - | 32.0 | 20.9 | 0.0 | 0.0 | - | 12.5 | 8.8 | - | 10.0 |
| GV-10 | 0.0 | 39.2 | - | 64.0 | 20.9 | 0.0 | 0.0 | - | 5.0 | 26.6 | - | 5.0 |
| GV-11 | 0.1 | 30.8 | - | 44.5 | 20.9 | 0.0 | 0.0 | - | 0.4 | 29.4 | - | 54.5 |
| GV-12 | 6.4 | 21.8 | - | 29.0 | 20.9 | 0.2 | 6.0 | - | 13.3 | 9.6 | - | 18.0 |
| GV-13 | 2.4 | 33.6 | - | 61.5 | 20.9 | 0.0 | 0.0 | - | 1.1 | 32.6 | - | 72.5 |
| GV-14 | 11.6 | 12.6 | - | 25.5 | 20.8 | 1.0 | 29.0 | - | 16.5 | 4.2 | - | 9.5 |
| GV-15 | 6.7 | 24.4 | - | 41.5 | 20.9 | 0.4 | 3.0 | - | 19.4 | 0.4 | 0.0 | - |
| GV-16 | 13.4 | 4.4 | 0.0 | - | 20.9 | 0.2 | 0.0 | - | 20.7 | 0.0 | 0.0 | - |
| GV-17 | 12.0 | 6.6 | - | 5.0 | 20.9 | 0.0 | 0.0 | - | 20.2 | 0.4 | 0.0 | - |
| GV-18 | 19.9 | 0.6 | - | 19.0 | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-19 | 6.5 | 11.4 | - | 9.0 | 20.9 | 0.0 | 0.0 | - | 20.5 | 0.0 | 0.0 | - |
| GV-20 | 13.3 | 10.2 | - | 17.5 | 20.9 | 0.0 | 0.0 | - | 14.8 | 8.8 | 42.0 | - |
| GV-21 | 14.7 | 7.4 | - | 15.5 | 20.9 | 0.0 | 8.0 | - | 19.3 | 0.6 | 30.0 | - |
| GV-22 | 8.6 | 18.6 | - | 41.5 | 20.5 | 0.6 | 0.0 | - | 20.0 | 0.4 | 0.0 | - |
| GV-23 | 2.5 | 29.6 | - | 60.0 | 20.9 | 0.2 | 4.0 | - | 17.4 | 2.4 | 82.0 | - |
| GV-24 | 0.8 | 36.6 | - | 66.0 | 20.2 | 0.6 | 4.0 | - | 18.4 | 2.0 | 43.0 | - |
| GV-25 | 1.4 | 35.2 | - | 64.0 | 20.9 | 0.0 | 0.0 | - | 12.7 | 10.6 | - | 24.0 |
| GV-26 | 5.3 | 28.6 | - | 56.0 | 20.9 | 0.0 | 0.0 | - | 19.2 | 0.6 | 0.0 | - |
| GV-27 | 0.0 | 36.2 | - | 63.5 | 20.9 | 0.0 | 0.0 | - | 0.0 | 30.6 | - | 70.5 |
| GV-28 | 0.0 | 27.4 | - | 39.5 | 20.9 | 0.0 | 0.0 | - | 1.3 | 26.0 | - | 91.0 |
| GV-29 | - | - | - | - | - | - | - | - | - | - | - | - |
| GV-30 | - | - | - | - | - | - | - | - | - | - | - | - |
| GV-31 | - | - | - | - | - | - | - | - | - | - | - | - |
| GV-32 | - | - | - | - | - | - | - | - | - | - | - | - |
| GV-33 | - | - | - | - | - | - | - | - | - | - | - | - |
| GV-34 | - | - | - | - | - | - | - | - | - | - | - | - |
| GV-35 | - | - | - | - | - | - | - | - | - | - | - | - |
| GV-36 | - | - | - | - | - | - | - | - | - | - | - | - |
| Shed | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| BP-1 | 19.7 | 0.6 | 0.0 | - | 20.1 | 0.0 | 0.0 | - | 19.4 | 1.2 | 0.0 | - |
| BP-2 | 20.9 | 0.0 | 0.0 | - | 20.3 | 0.0 | 0.0 | - | 20.9 | 0.4 | 0.0 | - |
| BP-3 | 20.9 | 0.0 | 0.0 | - | 19.4 | 0.2 | 0.0 | - | 18.4 | 1.4 | 0.0 | - |
| BP-4 | 20.9 | 0.0 | 0.0 | - | 19.7 | 0.0 | 0.0 | - | 19.4 | 0.8 | 0.0 | - |
| BP-5 | 20.9 | 0.0 | 0.0 | - | 20.3 | 0.0 | 0.0 | - | 20.9 | 0.4 | 0.0 | - |
| BP-6 | 20.9 | 0.0 | 0.0 | - | 20.5 | 0.0 | 0.0 | - | 20.7 | 1.0 | 0.0 | - |
| BP-7 | 20.2 | 0.6 | 0.0 | - | 20.4 | 0.0 | 0.0 | - | 20.9 | 0.4 | 0.0 | - |
| BP-8 | 20.9 | 0.0 | 0.0 | - | 20.5 | 0.0 | 0.0 | - | 20.7 | 0.8 | 0.0 | - |
| BP-9 | 20.9 | 0.0 | 0.0 | - | 20.5 | 0.0 | 0.0 | - | 20.7 | 0.4 | 0.0 | - |
| BP-10 | 20.9 | 0.0 | 0.0 | - | 20.4 | 0.0 | 0.0 | - | 20.6 | 0.4 | 0.0 | - |

Table 1
Jackson East County Landfill
Gas System Measurements

| Station ID | Third Quarter 2013 | | | | Fourth Quarter 2013 | | | | First Quarter 2014 | | | |
|------------|--------------------|-----------------|---------|---------|---------------------|-----------------|---------|---------|--------------------|-----------------|---------|---------|
| | 8/27/2013 | | | | 10/21 and 23/2013 | | | | 3/11/2014 | | | |
| | O ₂ | CO ₂ | Methane | | O ₂ | CO ₂ | Methane | | O ₂ | CO ₂ | Methane | |
| | % Volume | % Volume | %LEL | %Volume | % Volume | % Volume | %LEL | %Volume | % Volume | % Volume | %LEL | %Volume |
| GMW-1 | 5.3 | 9.6 | 0.0 | - | 13.8 | 4.8 | 0.0 | - | 14.1 | 4.2 | 0.0 | - |
| GMW-2 | 20.2 | 0.8 | 0.0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GMW-3 | 11.1 | 10.4 | 0.0 | - | 13.6 | 7.6 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| GMW-4 | 5.2 | 14.4 | - | 12.5 | 3.9 | 14.0 | - | 6.5 | 18.2 | 2.2 | 28.0 | - |
| GMW-5 | 0.0 | 28.6 | - | 33.5 | 0.0 | 22.8 | - | 20.0 | 3.7 | 18.4 | - | 21.5 |
| GMW-6 | 0.0 | 21.2 | - | 11.0 | 3.8 | 13.2 | 64.0 | - | 5.2 | 12.6 | 77.0 | - |
| GMW-7 | 0.0 | 28.6 | - | 13.0 | 2.3 | 18.8 | - | 5.0 | 1.1 | 21.2 | - | 6.0 |
| GMW-8 | 16.8 | 5.8 | - | 8.5 | 14.8 | 7.8 | - | 6.0 | 20.8 | 0.2 | 1.0 | - |
| GMW-9 | 20.2 | 1.0 | 13.0 | - | 20.9 | 0.2 | 5.0 | - | 20.0 | 0.6 | 5.0 | - |
| GMW-10 | 0.0 | 28.4 | - | 24.5 | 20.9 | 0.0 | 0.0 | - | 3.1 | 18.8 | - | 8.5 |
| GMW-11 | NM | NM | NM | NM | 2.5 | 17.0 | 54.0 | - | 1.0 | 19.6 | 55.0 | - |
| GV-1 | 19.4 | 1.0 | 19.0 | - | 11.0 | 15.8 | - | 28.5 | 19.0 | 0.6 | 5.0 | - |
| GV-2 | 8.9 | 21.4 | - | 38.5 | 5.8 | 28.4 | - | 42.5 | 20.6 | 0.2 | 0.0 | - |
| GV-3 | 20.9 | 0.4 | 5.0 | - | 10.8 | 16.8 | - | 22.0 | 20.3 | 0.0 | 0.0 | - |
| GV-4 | 8.6 | 24.4 | - | 33.5 | 5.9 | 31.0 | - | 44.0 | 9.3 | 23.2 | 43.0 | - |
| GV-5 | 14.2 | 11.8 | - | 22.5 | 6.3 | 23.2 | - | 30.0 | 16.6 | 4.0 | 83.0 | - |
| GV-6 | 15.9 | 5.4 | - | 8.5 | 11.0 | 15.0 | - | 27.5 | 20.5 | 0.2 | 0.0 | - |
| GV-7 | 20.9 | 0.8 | 15.0 | - | 16.2 | 4.0 | 38.0 | - | 20.8 | 0.0 | 0.0 | - |
| GV-8 | 20.9 | 0.8 | 24.0 | - | 1.0 | 42.2 | - | 58.0 | 20.6 | 0.0 | 0.0 | - |
| GV-9 | 1.8 | 35.6 | - | 36.0 | 16.7 | 3.8 | 48.0 | - | 12.2 | 11.4 | - | 14.0 |
| GV-10 | 13.0 | 15.6 | - | 19.5 | 4.1 | 35.4 | - | 48.5 | 7.4 | 23.0 | - | 45.5 |
| GV-11 | 20.9 | 0.0 | 0.0 | - | 13.9 | 11.6 | - | 14.5 | 0.1 | 30.0 | - | 66.5 |
| GV-12 | 8.6 | 22.2 | - | 38.0 | 13.8 | 11.2 | - | 12.5 | 9.1 | 18.0 | - | 36.5 |
| GV-13 | 20.9 | 0.0 | 0.0 | - | 9.8 | 21.0 | - | 33.0 | 20.9 | 0.0 | 0.0 | - |
| GV-14 | 19.9 | 1.6 | 52.0 | - | 18.9 | 2.6 | 65.0 | - | 20.9 | 0.2 | 0.0 | - |
| GV-15 | 20.9 | 0.0 | 0.0 | - | 13.1 | 7.8 | 48.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-16 | 20.9 | 0.0 | 0.0 | - | 20.1 | 1.6 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-17 | 20.7 | 1.2 | 21.0 | - | 20.9 | 0.4 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-18 | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-19 | 20.9 | 0.0 | 0.0 | - | 2.0 | 15.8 | 72.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-20 | 20.9 | 0.0 | 0.0 | - | 18.4 | 30.0 | 81.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-21 | 20.9 | 0.4 | 18.0 | - | 4.6 | 4.4 | - | 8.5 | 20.8 | 0.2 | 22.0 | - |
| GV-22 | 20.9 | 0.0 | 0.0 | - | 13.7 | 6.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-23 | 19.9 | 1.4 | 26.0 | - | 4.9 | 16.0 | - | 11.5 | 19.5 | 0.8 | 11.0 | - |
| GV-24 | 18.8 | 3.2 | 97.0 | - | 6.2 | 29.0 | - | 45.5 | 20.9 | 0.0 | 0.0 | - |
| GV-25 | 20.9 | 0.0 | 0.0 | - | 2.7 | 35.2 | - | 56.5 | 18.0 | 4.2 | - | 8.0 |
| GV-26 | 20.9 | 0.2 | 1.0 | - | 11.4 | 7.6 | 25.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-27 | 20.9 | 1.2 | 43.0 | - | 0.5 | 37.0 | - | 59.5 | 20.8 | 0.0 | 0.0 | - |
| GV-28 | 20.9 | 0.0 | 0.0 | - | 0.8 | 26.8 | - | 33.0 | 20.3 | 0.0 | 0.0 | - |
| GV-29 | 0.0 | 38.4 | - | 64.0 | 15.7 | 5.4 | 73.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-30 | 0.0 | 40.4 | - | 52.5 | 15.7 | 4.8 | 14.0 | - | 0.1 | 29.2 | - | 39.0 |
| GV-31 | 0.0 | 25.2 | - | 52.5 | 20.9 | 0.6 | 0.0 | - | 17.1 | 3.8 | - | 9.5 |
| GV-32 | 0.0 | 35.2 | - | 56.0 | 20.9 | 0.4 | 0.0 | - | 20.5 | 0.0 | 0.0 | - |
| GV-33 | 0.0 | 40.0 | - | 69.0 | 19.8 | 1.4 | 1.0 | - | 17.7 | 3.0 | - | 6.5 |
| GV-34 | 0.2 | 38.8 | - | 70.0 | 11.4 | 10.8 | - | 5.5 | 3.7 | 25.0 | - | 67.5 |
| GV-35 | 0.0 | 41.4 | - | 69.5 | 19.3 | 1.4 | 5.0 | - | 19.5 | 0.2 | 7.0 | - |
| GV-36 | 3.4 | 28.4 | - | 54.0 | 16.2 | 6.6 | - | 8.5 | 20.3 | 0.4 | 0.0 | - |
| Shed | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| BP-1 | 19.3 | 1.0 | 0.0 | - | 20.9 | 0.4 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| BP-2 | 19.1 | 1.4 | 0.0 | - | 20.9 | 0.4 | 0.0 | - | 20.9 | 0.4 | 0.0 | - |
| BP-3 | 14.3 | 4.0 | 0.0 | - | 20.9 | 0.4 | 0.0 | - | 16.8 | 1.8 | 0.0 | - |
| BP-4 | 16.8 | 2.6 | 0.0 | - | 20.9 | 0.6 | 0.0 | - | 20.6 | 0.6 | 0.0 | - |
| BP-5 | 20.2 | 0.8 | 0.0 | - | 20.9 | 0.2 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| BP-6 | 18.1 | 2.0 | 0.0 | - | 20.9 | 1.2 | 0.0 | - | 20.6 | 0.4 | 0.0 | - |
| BP-7 | 20.4 | 0.8 | 0.0 | - | 20.9 | 0.2 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| BP-8 | 19.7 | 1.2 | 0.0 | - | 20.9 | 0.6 | 0.0 | - | 19.8 | 1.2 | 0.0 | - |
| BP-9 | 20.3 | 1.0 | 0.0 | - | 20.9 | 0.2 | 0.0 | - | 20.8 | 0.4 | 0.0 | - |
| BP-10 | 19.7 | 1.0 | 0.0 | - | 20.9 | 0.2 | 0.0 | - | 20.7 | 0.4 | 0.0 | - |

Table 1
Jackson East County Landfill
Gas System Measurements

| Station ID | Second Quarter 2014 | | | | Third Quarter 2014 | | | | Fourth Quarter 2014 | | | |
|------------|---------------------|-----------------|---------|---------|--------------------|-----------------|---------|---------|---------------------|-----------------|---------|---------|
| | 5/21/2014 | | | | 9/15/2014 | | | | 10/27/2014 | | | |
| | O ₂ | CO ₂ | Methane | | O ₂ | CO ₂ | Methane | | O ₂ | CO ₂ | Methane | |
| | % Volume | % Volume | %LEL | %Volume | % Volume | % Volume | %LEL | %Volume | % Volume | % Volume | %LEL | %Volume |
| GMW-1 | 18.5 | 2.8 | 0.0 | - | 20.9 | 0.0 | 0.0 | - | 14.6 | 4.0 | 0.0 | - |
| GMW-2 | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GMW-3 | 18.3 | 2.8 | 0.0 | - | 13.3 | 7.4 | 0.0 | - | 20.7 | 0.8 | 0.0 | - |
| GMW-4 | 2.7 | 11.4 | 83.0 | - | 2.3 | 14.6 | - | 7.5 | 16.7 | 3.0 | 26.0 | - |
| GMW-5 | 0.1 | 20.8 | - | 18.5 | 0.1 | 22.8 | - | 19.0 | 3.7 | 18.0 | - | 14.0 |
| GMW-6 | 3.3 | 11.8 | 88.0 | - | 2.3 | 13.8 | 66.0 | - | 5.9 | 10.8 | 36.0 | - |
| GMW-7 | 7.6 | 10.4 | 25.0 | - | 0.0 | 22.4 | - | 7.5 | 20.9 | 0.0 | 0.0 | - |
| GMW-8 | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 1.0 | 0.0 | - |
| GMW-9 | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.2 | 1.0 | - | 20.9 | 0.0 | 0.0 | - |
| GMW-10 | 4.9 | 14.4 | 69.0 | - | 2.8 | 20.0 | - | 7.5 | 20.9 | 0.0 | 0.0 | - |
| GMW-11 | 3.2 | 14.0 | 34.0 | - | 0.0 | 19.8 | 26.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-1 | 20.9 | 0.8 | 3.0 | - | 11.8 | 6.2 | 15.0 | - | 20.9 | 0.6 | 0.0 | - |
| GV-2 | 14.2 | 9.8 | - | 13.0 | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-3 | 20.9 | 0.4 | 0.0 | - | 20.5 | 0.6 | 1.0 | - | 19.3 | 2.4 | 48.0 | - |
| GV-4 | 12.0 | 15.0 | - | 27.5 | 6.5 | 28.2 | - | 38.0 | 11.6 | 17.8 | 24.0 | - |
| GV-5 | 16.6 | 4.8 | - | 6.0 | 20.7 | 0.0 | 0.0 | - | 17.1 | 5.0 | - | 5.5 |
| GV-6 | 18.4 | 2.6 | - | 5.0 | 20.7 | 0.2 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| GV-7 | 20.9 | 0.4 | 4.0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.8 | 6.0 | - |
| GV-8 | 20.9 | 0.2 | 0.0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-9 | 9.9 | 14.4 | - | 11.0 | 20.2 | 0.6 | 0.0 | - | 20.7 | 1.0 | 4.0 | - |
| GV-10 | 14.2 | 11.2 | - | 15.5 | 2.1 | 40.4 | - | 54.0 | 14.0 | 12.2 | - | 14.4 |
| GV-11 | 3.5 | 24.2 | - | 32.5 | 20.3 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-12 | 16.5 | 5.4 | - | 8.5 | 15.0 | 5.8 | - | 15.5 | 19.6 | 2.0 | 26.0 | - |
| GV-13 | 16.8 | 5.0 | - | 10.5 | 4.7 | 28.4 | - | 49.0 | 14.4 | 10.4 | - | 14.5 |
| GV-14 | 20.8 | 0.6 | 5.0 | - | 18.4 | 1.4 | 26.0 | - | 20.7 | 1.2 | 14.0 | - |
| GV-15 | 20.9 | 0.4 | 3.0 | - | 19.7 | 1.4 | 0.0 | - | 20.9 | 0.6 | 0.0 | - |
| GV-16 | 20.9 | 0.0 | 0.0 | - | 20.7 | 0.2 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| GV-17 | 20.4 | 0.2 | 0.0 | - | 18.0 | 2.2 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| GV-18 | 20.7 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-19 | 20.9 | 0.0 | 0.0 | - | 15.0 | 4.8 | - | 8.5 | 20.9 | 0.2 | 0.0 | - |
| GV-20 | 20.9 | 0.2 | 0.0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-21 | 20.9 | 0.0 | 0.0 | - | 19.7 | 1.2 | 18.0 | - | 20.9 | 0.4 | 0.0 | - |
| GV-22 | 20.9 | 0.2 | 0.0 | - | 15.7 | 4.2 | 9.0 | - | 20.9 | 0.2 | 0.0 | - |
| GV-23 | 20.9 | 0.2 | 0.0 | - | 18.2 | 2.2 | 0.0 | - | 20.7 | 0.4 | 0.0 | - |
| GV-24 | 20.1 | 0.8 | 9.0 | - | 0.5 | 39.2 | - | 66.0 | 7.1 | 26.6 | 36.0 | - |
| GV-25 | 5.2 | 22.8 | - | 40.5 | 20.8 | 0.0 | 0.0 | - | 18.3 | 4.0 | 98.0 | - |
| GV-26 | 20.9 | 0.0 | 0.0 | - | 20.2 | 0.2 | 0.0 | - | 20.9 | 0.4 | 0.0 | - |
| GV-27 | 16.0 | 5.4 | - | 10.5 | 20.7 | 0.0 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| GV-28 | 15.4 | 4.8 | - | 8.5 | 20.5 | 0.8 | 8.0 | - | 16.1 | 4.0 | 66.0 | - |
| GV-29 | 6.4 | 19.2 | - | 24.5 | 19.4 | 2.2 | 49.0 | - | 17.7 | 5.8 | - | 5.5 |
| GV-30 | 1.0 | 27.6 | - | 26.5 | 18.4 | 2.8 | 62.0 | - | 19.0 | 3.0 | 43.0 | - |
| GV-31 | 19.2 | 1.2 | 38.0 | - | 19.8 | 0.8 | 7.0 | - | 19.2 | 2.8 | 56.0 | - |
| GV-32 | 20.9 | 0.2 | 0.0 | - | 20.1 | 0.8 | 1.0 | - | 20.9 | 0.4 | 0.0 | - |
| GV-33 | 16.1 | 5.2 | - | 11.0 | 13.0 | 11.6 | - | 19.5 | 18.1 | 4.2 | - | 5.0 |
| GV-34 | 6.0 | 21.2 | - | 41.5 | 13.6 | 10.6 | - | 18.5 | 20.9 | 0.0 | 0.0 | - |
| GV-35 | 20.1 | 0.0 | 9.0 | - | 20.0 | 0.6 | 6.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-36 | 15.4 | 6.4 | - | 13.0 | 20.9 | 0.0 | 0.0 | - | 18.3 | 4.4 | - | 5.5 |
| Shed | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| BP-1 | 20.9 | 0.0 | 0.0 | - | 19.8 | 0.8 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| BP-2 | 20.9 | 0.2 | 0.0 | - | 18.7 | 1.8 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| BP-3 | 20.5 | 0.4 | 0.0 | - | 18.1 | 1.8 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| BP-4 | 20.4 | 0.2 | 0.0 | - | 17.8 | 0.6 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| BP-5 | 20.9 | 0.0 | 0.0 | - | 20.1 | 0.8 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| BP-6 | 20.9 | 0.4 | 0.0 | - | 18.2 | 1.2 | 0.0 | - | 20.9 | 0.6 | 0.0 | - |
| BP-7 | 20.9 | 0.0 | 0.0 | - | 20.2 | 0.8 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| BP-8 | 20.9 | 0.6 | 0.0 | - | 16.4 | 1.6 | 0.0 | - | 20.1 | 0.8 | 0.0 | - |
| BP-9 | 20.9 | 0.0 | 0.0 | - | 19.8 | 0.8 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| BP-10 | 20.9 | 0.0 | 0.0 | - | 19.1 | 1.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |

Table 1
Jackson East County Landfill
Gas System Measurements

| Station ID | First Quarter 2015 | | | | Second Quarter 2015 | | | | Third Quarter 2015 | | | |
|------------|--------------------|-----------------|---------|---------|---------------------|-----------------|---------|---------|--------------------|-----------------|---------|---------|
| | 2/4/2015 | | | | 5/18/2015 | | | | 8/31/2015 | | | |
| | O ₂ | CO ₂ | Methane | | O ₂ | CO ₂ | Methane | | O ₂ | CO ₂ | Methane | |
| | % Volume | % Volume | %LEL | %Volume | % Volume | % Volume | %LEL | %Volume | % Volume | % Volume | %LEL | %Volume |
| GMW-1 | 15.5 | 3.8 | 0 | - | 14.1 | 4.2 | 0.0 | - | 17.9 | 2.6 | 0.0 | - |
| GMW-2 | 18.2 | 3.0 | 0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GMW-3 | 13.1 | 7.8 | 0 | - | 14.2 | 6.6 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| GMW-4 | 0.8 | 14.8 | - | 7.5 | 2.2 | 13.6 | - | 5.0 | 20.9 | 0.0 | 0.0 | - |
| GMW-5 | 0.4 | 20.8 | - | 24.0 | 1.3 | 22.8 | - | 25.5 | 13.2 | 5.4 | 29.0 | - |
| GMW-6 | 1.8 | 13.6 | 96 | - | 4.0 | 12.6 | 69.0 | - | 17.4 | 2.8 | 0.0 | - |
| GMW-7 | 0.1 | 19.0 | 61 | - | 1.3 | 20.4 | 89.0 | - | 19.8 | 1.6 | 0.0 | - |
| GMW-8 | 20.1 | 1.0 | 4 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GMW-9 | 20.9 | 0.0 | 0 | - | 20.9 | 0.2 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GMW-10 | 2.0 | 17.6 | - | 5.5 | 3.1 | 18.8 | - | 7.5 | 11.5 | 11.4 | 0.0 | - |
| GMW-11 | 2.0 | 15.0 | 16 | - | 1.2 | 19.2 | 40.0 | - | 13.3 | 7.0 | 0.0 | - |
| GV-1 | 20.9 | 0.6 | 2 | - | 19.6 | 1.0 | 0.0 | - | 13.2 | 13.4 | - | 12.5 |
| GV-2 | 20.9 | 0.0 | 0 | - | 17.4 | 4.8 | - | 7.5 | 13.6 | 13.2 | - | 13.5 |
| GV-3 | 20.7 | 2.4 | 3 | - | 19.3 | 0.8 | 0.0 | - | 14.3 | 10.2 | - | 10.5 |
| GV-4 | 1.6 | 17.8 | - | 39.5 | 5.1 | 30.8 | - | 65.0 | 11.3 | 23.4 | - | 43.0 |
| GV-5 | 20.7 | 5.0 | 4 | - | 20.9 | 0.4 | 0.0 | - | 13.7 | 9.6 | 0.0 | - |
| GV-6 | 20.5 | 0.2 | 2 | - | 20.2 | 1.0 | 0.0 | - | 15.4 | 9.0 | - | 7.5 |
| GV-7 | 20.9 | 0.8 | 0 | - | 19.2 | 1.4 | 9.0 | - | 18.6 | 3.0 | 0.0 | - |
| GV-8 | 20.7 | 0.0 | 0 | - | 20.9 | 0.0 | 0.0 | - | 11.5 | 24.2 | - | 37.0 |
| GV-9 | 20.1 | 1.0 | 0 | - | 14.9 | 6.8 | - | 5.5 | 19.1 | 2.2 | 0.0 | - |
| GV-10 | 7.3 | 12.2 | - | 29.5 | 14.5 | 11.0 | - | 16.5 | 11.6 | 24.8 | - | 44.5 |
| GV-11 | 20.7 | 0.0 | 0 | - | 17.4 | 4.8 | - | 6.5 | 9.9 | 23.8 | - | 43.5 |
| GV-12 | 16.5 | 2.0 | - | 9.5 | 19.0 | 2.2 | 58.0 | - | 18.6 | 3.0 | 0.0 | - |
| GV-13 | 20.9 | 10.4 | 0 | - | 20.7 | 1.0 | 27.0 | - | 20.9 | 0.2 | 0.0 | - |
| GV-14 | 20.9 | 1.2 | 0 | - | 20.9 | 0.0 | 0.0 | - | 19.4 | 2.0 | 0.0 | - |
| GV-15 | 20.9 | 0.6 | 0 | - | 20.2 | 0.8 | 0.0 | - | 20.9 | 0.6 | 0.0 | - |
| GV-16 | 20.9 | 0.2 | 0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| GV-17 | 20.9 | 0.2 | 0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 1.0 | 0.0 | - |
| GV-18 | 20.9 | 0.0 | 0 | - | 20.9 | 0.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| GV-19 | 20.9 | 0.2 | 1 | - | 20.9 | 0.2 | 0.0 | - | 20.9 | 0.6 | 0.0 | - |
| GV-20 | 20.9 | 0.0 | 0 | - | 13.0 | 8.8 | 25.5 | - | 14.2 | 11.6 | - | 14.5 |
| GV-21 | 20.9 | 0.4 | 2 | - | 20.9 | 0.4 | 7.0 | - | 20.9 | 0.4 | 0.0 | - |
| GV-22 | 20.9 | 0.2 | 0 | - | 20.9 | 0.0 | 0.0 | - | 20.5 | 0.8 | 0.0 | - |
| GV-23 | 18.9 | 0.4 | 7 | - | 20.7 | 0.4 | 0.0 | - | 16.1 | 5.6 | 48.0 | - |
| GV-24 | 20.9 | 26.6 | 0 | - | 20.5 | 0.4 | 0.0 | - | 13.1 | 17.4 | - | 27.5 |
| GV-25 | 9.4 | 4.0 | - | 21.0 | 11.2 | 15.8 | - | 29.0 | 8.4 | 29.0 | - | 70.0 |
| GV-26 | 20.9 | 0.4 | 0 | - | 20.5 | 0.4 | 0.0 | - | 20.9 | 0.6 | 0.0 | - |
| GV-27 | 20.9 | 0.2 | 0 | - | 9.8 | 18.6 | - | 33.5 | 14.5 | 13.2 | - | 17.0 |
| GV-28 | 20.7 | 4.0 | 0 | - | 16.7 | 3.8 | - | 6.0 | 12.6 | 13.6 | - | 10.5 |
| GV-29 | 17.0 | 5.8 | - | 5.5 | 13.0 | 13.2 | - | 17.0 | 13.4 | 16.6 | - | 18.0 |
| GV-30 | 20.9 | 3.0 | 19 | - | 12.7 | 10.8 | - | 18.0 | 9.3 | 24.6 | - | 34.0 |
| GV-31 | 20.9 | 2.8 | 0 | - | 18.7 | 1.6 | 48.0 | - | 16.6 | 6.0 | 40.0 | - |
| GV-32 | 20.9 | 0.4 | 0 | - | 20.8 | 0.2 | 0.0 | - | 15.1 | 7.4 | 0.0 | - |
| GV-33 | 20.9 | 4.2 | 0 | - | 15.9 | 6.6 | - | 14.0 | 17.0 | 6.0 | 97.0 | - |
| GV-34 | 20.9 | 0.0 | 0 | - | 16.3 | 6.2 | - | 14.5 | 12.3 | 19.0 | - | 39.5 |
| GV-35 | 20.9 | 0.0 | 0 | - | 20.9 | 0.2 | 0.0 | - | 20.7 | 0.6 | 0.0 | - |
| GV-36 | 20.9 | 4.4 | 0 | - | 20.2 | 0.8 | 6.0 | - | 16.5 | 7.8 | - | 7.0 |
| Shed | 20.9 | 0.0 | 0 | - | 20.9 | 0.0 | 0.0 | - | 20.7 | 0.0 | 0.0 | - |
| BP-1 | 20.7 | 0.0 | 0 | - | 20.7 | 0.4 | 0.0 | - | 20.9 | 0.2 | 0.0 | - |
| BP-2 | 19.7 | 0.8 | 0 | - | 20.9 | 0.6 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| BP-3 | 18.8 | 1.2 | 0 | - | 19.9 | 1.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| BP-4 | 20.8 | 0.0 | 0 | - | 19.8 | 1.0 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| BP-5 | 20.9 | 0.2 | 0 | - | 20.9 | 0.2 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| BP-6 | 20.6 | 0.4 | 0 | - | 20.5 | 1.0 | 0.0 | - | 20.9 | 1.2 | 0.0 | - |
| BP-7 | 18.8 | 1.0 | 0 | - | 20.9 | 0.2 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| BP-8 | 18.3 | 1.0 | 0 | - | 20.9 | 0.6 | 0.0 | - | 20.7 | 1.2 | 0.0 | - |
| BP-9 | 20.7 | 0.2 | 0 | - | 20.9 | 0.4 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |
| BP-10 | 20.7 | 0.2 | 0 | - | 20.9 | 0.2 | 0.0 | - | 20.9 | 0.0 | 0.0 | - |

Table 1
Jackson East County Landfill
Gas System Measurements

| Station ID | Fourth Quarter 2015 | | | | First Quarter 2016 | | | | Second Quarter 2016 | | | |
|------------|---------------------|-----------------|---------|---------|--------------------|-----------------|---------|---------|---------------------|-----------------|---------|---------|
| | 11/16/2015 | | | | 3/2/2016 | | | | 5/31/2016 | | | |
| | O ₂ | CO ₂ | Methane | | O ₂ | CO ₂ | Methane | | O ₂ | CO ₂ | Methane | |
| | % Volume | % Volume | %LEL | %Volume | % Volume | % Volume | %LEL | %Volume | % Volume | % Volume | %LEL | %Volume |
| GMW-1 | 13.7 | 5.4 | 0.0 | | 18.1 | 2.4 | 0.0 | | 15.7 | 4.0 | 0.0 | |
| GMW-2 | 18.5 | 2.8 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| GMW-3 | 15.7 | 6.8 | 0.0 | | 19.4 | 1.2 | 0.0 | | 18.5 | 2.8 | 0.0 | |
| GMW-4 | 9.0 | 11.0 | 83.0 | | 13.4 | 4.6 | 4.0 | | 8.6 | 9.8 | 48.0 | |
| GMW-5 | 5.0 | 23.6 | - | 36.4 | 7.4 | 11.4 | - | 11.0 | 15.8 | 6.2 | - | 7.0 |
| GMW-6 | 5.6 | 15.6 | 23.0 | | 11.0 | 7.0 | 41.0 | | 8.6 | 11.0 | 26.0 | |
| GMW-7 | 5.0 | 22.6 | - | 6.0 | 12.5 | 7.8 | 0.0 | | 7.1 | 15.4 | 13.0 | |
| GMW-8 | 20.7 | 0.0 | 0.0 | | 19.3 | 1.8 | 18.0 | | 18.1 | 3.6 | 36.0 | |
| GMW-9 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.6 | 0.2 | 0.0 | |
| GMW-10 | 6.0 | 19.2 | 78.0 | | 20.9 | 0.0 | 0.0 | | 7.5 | 17.0 | - | 5.0 |
| GMW-11 | 4.9 | 19.8 | 0.0 | | 20.9 | 0.0 | 0.0 | | 5.3 | 18.2 | 17.0 | |
| GV-1 | 20.7 | 0.4 | 0.0 | | 20.3 | 0.2 | 0.0 | | 17.8 | 3.6 | 0.0 | |
| GV-2 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| GV-3 | 20.9 | 0.0 | 0.0 | | 20.7 | 0.0 | 0.0 | | 20.6 | 0.6 | 9.0 | |
| GV-4 | 20.7 | 0.6 | 0.0 | | 16.3 | 6.8 | - | 6.0 | 20.9 | 0.0 | 0.0 | |
| GV-5 | 20.9 | 0.0 | 0.0 | | 19.6 | 1.2 | 0.0 | | 19.3 | 2.0 | 18.0 | |
| GV-6 | 20.9 | 0.0 | 0.0 | | 20.7 | 0.0 | 0.0 | | 17.7 | 3.4 | 68.0 | |
| GV-7 | 20.9 | 0.0 | 0.0 | | 20.7 | 0.0 | 0.0 | | 20.2 | 0.8 | 8.0 | |
| GV-8 | 20.7 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| GV-9 | 20.3 | 0.0 | 0.0 | | 19.3 | 1.2 | 4.0 | | 19.9 | 1.0 | 1.0 | |
| GV-10 | 12.6 | 20.2 | 38.5 | | 15.8 | 6.4 | - | 6.5 | 15.5 | 11.4 | - | 17.0 |
| GV-11 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| GV-12 | 19.2 | 2.2 | 0.0 | | 19.6 | 1.2 | 16.0 | | 20.0 | 1.4 | 30.0 | |
| GV-13 | 18.4 | 3.4 | 0.0 | | 19.3 | 1.8 | 29.0 | | 20.9 | 0.0 | 0.0 | |
| GV-14 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| GV-15 | 20.5 | 0.4 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.4 | 0.0 | |
| GV-16 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.2 | 0.0 | |
| GV-17 | 18.1 | 4.8 | 62.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.4 | 0.0 | |
| GV-18 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.2 | 0.0 | |
| GV-19 | 17.0 | 3.6 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.7 | 0.4 | 0.0 | |
| GV-20 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 19.1 | 2.2 | 77.0 | |
| GV-21 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.3 | 0.8 | 3.0 | |
| GV-22 | 20.7 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| GV-23 | 20.7 | 0.2 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.2 | 1.0 | 0.0 | |
| GV-24 | 6.0 | 38.0 | - | 94.0 | 20.9 | 0.0 | 0.0 | | 14.5 | 13.4 | - | 23.5 |
| GV-25 | 17.0 | 6.2 | - | 6.5 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| GV-26 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.6 | 0.6 | 0.0 | |
| GV-27 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 17.3 | 3.8 | 5.0 | |
| GV-28 | 20.7 | 0.6 | 0.0 | | 20.9 | 0.0 | 0.0 | | 12.7 | 9.4 | - | 8.5 |
| GV-29 | 20.9 | 0.6 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.8 | 0.2 | 0.0 | |
| GV-30 | 20.9 | 0.0 | 0.0 | | 19.7 | 1.4 | 19.0 | | 17.0 | 6.8 | - | 8.0 |
| GV-31 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| GV-32 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| GV-33 | 20.9 | 0.0 | 0.0 | | 19.3 | 1.2 | 13.0 | | 18.1 | 3.6 | - | 7.0 |
| GV-34 | 16.5 | 8.6 | - | 14.0 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| GV-35 | 19.6 | 1.8 | 3.0 | | 20.9 | 0.0 | 0.0 | | 20.6 | 0.2 | 0.0 | |
| GV-36 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.2 | 0.8 | 0.0 | |
| Shed | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| BP-1 | 20.7 | 0.0 | 0.0 | | 20.2 | 0.2 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| BP-2 | 20.5 | 0.4 | 0.0 | | 20.7 | 0.0 | 0.0 | | 20.7 | 0.4 | 0.0 | |
| BP-3 | 20.5 | 0.4 | 0.0 | | 20.3 | 0.4 | 0.0 | | 20.5 | 0.4 | 0.0 | |
| BP-4 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| BP-5 | 20.9 | 0.0 | 0.0 | | 20.7 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| BP-6 | 20.7 | 0.2 | 0.0 | | 20.7 | 0.2 | 0.0 | | 20.5 | 0.4 | 0.0 | |
| BP-7 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| BP-8 | 20.6 | 0.2 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.7 | 0.2 | 0.0 | |
| BP-9 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.2 | 0.0 | |
| BP-10 | 20.9 | 0.2 | 0.0 | | 20.9 | 0.0 | 0.0 | | 20.9 | 0.2 | 0.0 | |

Table 1
Jackson East County Landfill
Gas System Measurements

| Station ID | Third Quarter 2016 | | | | Fourth Quarter 2016 | | | |
|------------|--------------------|-----------------|---------|----------|---------------------|-----------------|---------|------|
| | 8/10/2016 | | | | 11/28/2016 | | | |
| | O ₂ | CO ₂ | Methane | | O ₂ | CO ₂ | Methane | |
| % Volume | % Volume | %LEL | %Volume | % Volume | % Volume | %LEL | %Volume | |
| GMW-1 | 18.4 | 2.4 | 0.0 | | 10.3 | 6.0 | 0.0 | |
| GMW-2 | 20.9 | 0.0 | 0.0 | | 14.4 | 5.8 | 0.0 | |
| GMW-3 | 20.9 | 0.0 | 0.0 | | 12.5 | 8.8 | 0.0 | |
| GMW-4 | 20.9 | 0.0 | 0.0 | | 4.1 | 12.6 | | 7.0 |
| GMW-5 | 16.8 | 2.8 | 31.0 | | 1.8 | 21.8 | | 21.0 |
| GMW-6 | 17.9 | 2.4 | 10.0 | | 0.9 | 17.2 | 66.0 | |
| GMW-7 | 20.9 | 0.0 | 0.0 | | 0.5 | 23.2 | | 9.5 |
| GMW-8 | 17.3 | 5.2 | 43.0 | | 16.5 | 5.6 | 1.0 | |
| GMW-9 | 20.9 | 0.0 | 0.0 | | 20.7 | 1.2 | 19.0 | |
| GMW-10 | 20.9 | 0.0 | 0.0 | | 1.0 | 19.8 | | 6.5 |
| GMW-11 | 18.6 | 2.4 | 3.0 | | 0.3 | 20.8 | 18.0 | |
| GV-1 | 10.5 | 13.8 | - | 13.5 | 14.6 | 7.8 | | 12.0 |
| GV-2 | 20.5 | 0.4 | 2.0 | | 10.9 | 18.0 | | 24.5 |
| GV-3 | 9.5 | 20.4 | - | 15.0 | 11.3 | 15.6 | | 22.0 |
| GV-4 | 15.7 | 8.8 | - | 14.0 | 5.1 | 32.8 | | 50.5 |
| GV-5 | 10.3 | 16.2 | - | 5.0 | 11.4 | 9.8 | 58.0 | |
| GV-6 | 20.3 | 0.0 | 0.0 | | 14.6 | 9.0 | | 13.0 |
| GV-7 | 19.1 | 2.2 | 43.0 | | 19.1 | 2.6 | 53.0 | |
| GV-8 | 8.8 | 27.0 | - | 27.5 | 13.4 | 15.6 | | 21.0 |
| GV-9 | 19.4 | 1.0 | 0.0 | | 19.8 | 1.4 | 1.0 | |
| GV-10 | 11.7 | 20.6 | - | 28.5 | 12.8 | 15.8 | | 21.0 |
| GV-11 | 20.8 | 0.0 | 0.0 | | 15.6 | 6.6 | | 7.0 |
| GV-12 | 6.5 | 24.2 | - | 10.5 | 17.4 | 3.2 | 24.0 | |
| GV-13 | 20.6 | 0.2 | 2.0 | | 18.2 | 3.0 | 91.0 | |
| GV-14 | 17.8 | 3.0 | 51.0 | | 18.2 | 2.6 | 28.0 | |
| GV-15 | 20.1 | 0.8 | 2.0 | | 19.3 | 2.2 | 59.0 | |
| GV-16 | 20.9 | 0.0 | 0.0 | | 19.2 | 2.2 | 60.0 | |
| GV-17 | 20.7 | 0.4 | 0.0 | | 20.2 | 2.2 | 58.0 | |
| GV-18 | 20.9 | 0.2 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| GV-19 | 19.8 | 1.2 | 1.0 | | 20.9 | 0.8 | 7.0 | |
| GV-20 | 10.4 | 12.2 | - | 7.5 | 19.7 | 2.6 | 58.0 | |
| GV-21 | 19.8 | 1.0 | 6.0 | | 20.9 | 0.4 | 10.0 | |
| GV-22 | 20.7 | 0.2 | 2.0 | | 20.9 | 0.2 | 3.0 | |
| GV-23 | 13.5 | 7.8 | 48.0 | | 16.9 | 5.4 | | 10.0 |
| GV-24 | 10.4 | 22.0 | - | 27.0 | 18.4 | 5.2 | | 6.5 |
| GV-25 | 20.9 | 0.2 | 1.0 | | 15.8 | 9.4 | | 14.0 |
| GV-26 | 20.3 | 0.4 | 1.0 | | 20.6 | 1.8 | 38.0 | |
| GV-27 | 17.6 | 4.4 | 81.0 | | 18.1 | 5.4 | | 7.0 |
| GV-28 | 10.2 | 15.4 | - | 14.5 | 12.9 | 9.2 | 81.0 | |
| GV-29 | 20.9 | 0.0 | 1.0 | | 13.0 | 14.0 | | 18.5 |
| GV-30 | 20.9 | 0.0 | 0.0 | | 14.4 | 9.6 | | 10.0 |
| GV-31 | 15.4 | 10.0 | - | 9.0 | 19.1 | 2.4 | 68.0 | |
| GV-32 | 12.9 | 9.8 | 2.0 | | 18.8 | 2.2 | 12.0 | |
| GV-33 | 20.5 | 0.4 | 0.0 | | 18.7 | 3.0 | 5.0 | |
| GV-34 | 20.5 | 0.6 | 20.0 | | 15.1 | 9.6 | 17.0 | |
| GV-35 | 20.7 | 0.2 | 5.0 | | 20.5 | 27.0 | | |
| GV-36 | 13.9 | 12.0 | - | 11.0 | 18.6 | 3.2 | 5.5 | |
| Shed | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| BP-1 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.6 | 0.0 | |
| BP-2 | 20.9 | 0.2 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| BP-3 | 20.5 | 0.4 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| BP-4 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| BP-5 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| BP-6 | 20.7 | 0.4 | 0.0 | | 19.8 | 0.6 | 0.0 | |
| BP-7 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| BP-8 | 20.7 | 0.2 | 0.0 | | 20.9 | 1.0 | 0.0 | |
| BP-9 | 20.9 | 0.2 | 0.0 | | 20.9 | 0.0 | 0.0 | |
| BP-10 | 20.9 | 0.0 | 0.0 | | 20.9 | 0.0 | 0.0 | |

ATTACHMENT 3

Field Data

JACKSON COUNTY EAST LANDFILL

SAMPLING EVENT: 16Q4
PROJECT NO: 10170-018-01-6508

General Data: 019
Am

Methane Concentrations Recorded in:
% Volume %LEL
(Circle One)
As marked

| | |
|---------------------------------------|---|
| Date: 11-28-16 | Sampler: Steve Massick |
| Time: 1430 | Sky Conditions: Cloudy - wind 0-8mph S |
| Air Temperature (deg C): 24° C | Measuring Device: RKI Eagle |
| Barometric Pressure (in Hg): 29.8" Hg | Serial No.: E084039 Rented From: N/A |

Sampling Data

| STATION I.D. | TIME SAMPLED | O2 % Volume | CO2 % Volume | PEAK CONCENTRATION | | CONCENTRATIONS RECORDED AT (Optional): | | | | STATION TYPE | STATION LOCATION | COMMENTS |
|--------------|--------------|----------------|-----------------|--------------------|----------|--|---------|---------|---------|--------------|------------------|-----------|
| | | | | % LEL | % Volume | 30 Sec. | 45 Sec. | 60 Sec. | 90 Sec. | | | |
| | | | | GMW-1 | 1447 | 10.3 | 6.0 | Ø | — | | | |
| GMW-2 | 1450 | 14.4 | 5.8 | Ø | — | | | | | Well | | |
| GMW-3 | 1452 | 12.5 | 8.8 | Ø | — | | | | | Well | | |
| Building | 1441 | 20.9 | 0.0 | Ø | — | | | | | Structure | | walk thru |
| GMW-4 | 1456 | 4.1 | 12.6 | — | 7.0 | | | | | Well | | |
| GMW-5 | 1458 | 1.8 | 21.8 | — | 21.0 | | | | | Well | | |
| GMW-6 | 1501 | 0.9 | 17.2 | 66 | — | | | | | Well | | |
| GMW-7 | 1508 | 0.5 | 23.2 | — | 9.5 | | | | | Well | | |
| GMW-8 | 1515 | 16.5 | 5.6 | 1 | — | | | | | Well | | |
| GMW-9 | 1518 | 20.7 | 1.2 | 19 | — | | | | | Well | | |
| GMW-10 | 1520 | 1.0 | 19.8 | — | 6.5 | | | | | Well | | |
| GMW-11 | 1522 | 0.3 | 20.8 | 18 | — | | | | | Well | | |
| BP-1 | 1658 | 20.9 | 0.6 | Ø | — | | | | | Probe | | |
| BP-2 | 1701 | 20.9 | 0.0 | Ø | — | | | | | Probe | | |
| BP-3 | 1703 | 20.9 | 0.0 | Ø | — | | | | | Probe | | |
| BP-4 | 1705 | 20.9 | 0.0 | Ø | — | | | | | Probe | | |
| BP-5 | 1707 | 20.9 | 0.0 | Ø | — | | | | | Probe | | |
| BP-6 | 1710 | 19.8 | 0.6 | Ø | — | | | | | Probe | | |
| BP-7 | 1713 | 20.9 | 0.0 | Ø | — | | | | | Probe | | |
| BP-8 | 1715 | 20.9 | 1.0 | Ø | — | | | | | Probe | | |
| BP-9 | 1717 | 20.9 | 0.0 | Ø | — | | | | | Probe | | |
| BP-10 | 1719 | 20.9 | 0.0 | Ø | — | | | | | Probe | | |

JACKSON COUNTY EAST LANDFILL

SAMPLING EVENT: 16Q4
 PROJECT NO: 10170-018-01-6508

General Data: *017*
Jm

Methane Concentrations Recorded in:

% Volume %LEL
 (Circle One)

AS MARKED

| | |
|--|--|
| Date: <i>11-28-16</i> | Sampler: <i>Steve Messick</i> |
| Time: <i>1430</i> | Sky Conditions: <i>Cloudy - Wind 0-8mph S</i> |
| Air Temperature (deg C): <i>24°C</i> | Measuring Device: <i>RKI Eagle</i> |
| Barometric Pressure (in Hg): <i>29.8" Hg</i> | Serial No.: <i>E084039</i> Rented From: <i>N/A</i> |

Sampling Data

| STATION I.D. | TIME SAMPLED | O2 | | CO2 | | METHANE | | | | STATION TYPE | STATION LOCATION | COMMENTS |
|--------------|--------------|-------------|-------------|--------------------------|-----------------------------|--|---------|---------|---------|--------------|------------------|----------|
| | | % Volume | % Volume | PEAK CONCENTRATION % LEL | PEAK CONCENTRATION % Volume | CONCENTRATIONS RECORDED AT (Optional): | | | | | | |
| | | | | | | 30 Sec. | 45 Sec. | 60 Sec. | 90 Sec. | | | |
| GV-1 | <i>1606</i> | <i>14.6</i> | <i>7.8</i> | <i>—</i> | <i>12.0</i> | | | | | Vent | | |
| GV-2 | <i>1604</i> | <i>10.9</i> | <i>18.0</i> | <i>—</i> | <i>24.5</i> | | | | | Vent | | |
| GV-3 | <i>1602</i> | <i>11.3</i> | <i>15.6</i> | <i>—</i> | <i>22.0</i> | | | | | Vent | | |
| GV-4 | <i>1600</i> | <i>5.1</i> | <i>32.8</i> | <i>—</i> | <i>50.5</i> | | | | | Vent | | |
| GV-5 | <i>1557</i> | <i>11.4</i> | <i>9.8</i> | <i>58</i> | <i>—</i> | | | | | Vent | | |
| GV-6 | <i>1555</i> | <i>14.6</i> | <i>9.0</i> | <i>—</i> | <i>13.0</i> | | | | | Vent | | |
| GV-7 | <i>1553</i> | <i>19.1</i> | <i>2.6</i> | <i>53</i> | <i>—</i> | | | | | Vent | | |
| GV-8 | <i>1551</i> | <i>13.4</i> | <i>15.6</i> | <i>—</i> | <i>21.0</i> | | | | | Vent | | |
| GV-9 | <i>1549</i> | <i>19.8</i> | <i>1.4</i> | <i>1</i> | <i>—</i> | | | | | Vent | | |
| GV-10 | <i>1546</i> | <i>12.8</i> | <i>15.8</i> | <i>—</i> | <i>21.0</i> | | | | | Vent | | |
| GV-11 | <i>1609</i> | <i>15.6</i> | <i>6.6</i> | <i>—</i> | <i>7.0</i> | | | | | Vent | | |
| GV-12 | <i>1611</i> | <i>17.4</i> | <i>3.2</i> | <i>24</i> | <i>—</i> | | | | | Vent | | |
| GV-13 | <i>1613</i> | <i>18.2</i> | <i>3.0</i> | <i>91</i> | <i>—</i> | | | | | Vent | | |
| GV-14 | <i>1615</i> | <i>18.2</i> | <i>2.6</i> | <i>28</i> | <i>—</i> | | | | | Vent | | |
| GV-15 | <i>1617</i> | <i>19.3</i> | <i>2.2</i> | <i>59</i> | <i>—</i> | | | | | Vent | | |
| GV-16 | <i>1621</i> | <i>19.2</i> | <i>2.2</i> | <i>60</i> | <i>—</i> | | | | | Vent | | |
| GV-17 | <i>1623</i> | <i>20.2</i> | <i>2.2</i> | <i>58</i> | <i>—</i> | | | | | Vent | | |
| GV-18 | <i>1625</i> | <i>20.9</i> | <i>0.0</i> | <i>8</i> | <i>—</i> | | | | | Vent | | |
| GV-19 | <i>1628</i> | <i>20.9</i> | <i>0.8</i> | <i>7</i> | <i>—</i> | | | | | Vent | | |
| GV-20 | <i>1655</i> | <i>19.7</i> | <i>2.6</i> | <i>58</i> | <i>—</i> | | | | | Vent | | |
| GV-21 | <i>1653</i> | <i>20.9</i> | <i>0.4</i> | <i>10</i> | <i>—</i> | | | | | Vent | | |
| GV-22 | <i>1651</i> | <i>20.9</i> | <i>0.2</i> | <i>3</i> | <i>—</i> | | | | | Vent | | |
| GV-23 | <i>1648</i> | <i>16.9</i> | <i>5.4</i> | <i>—</i> | <i>10.0</i> | | | | | Vent | | |
| GV-24 | <i>1646</i> | <i>18.4</i> | <i>5.2</i> | <i>—</i> | <i>6.5</i> | | | | | Vent | | |

