**ASSESSMENT MONITORING**

# Landfill Gas Measurements Field Worksheet
## Francis Farm Landfill - Permit #44-03
## Haywood County, North Carolina

| Field Calibration Gas Type & Canister Expiration Date | | |
|---|---|---|
| $CH_4$ | 50% | May-15 |
| $CO_2$ | 35% | May-15 |
| $O_2$ | 4% | Apr-17 |

Name of Person Taking Readings: Randal Siske, Environmental Coordinator
Weather Conditions: Sunny 57% Humidity
Gas Monitoring Equipment: Land-Tec GEM 2000+
Factory Calibration Date: November 20, 2014
Pump Rate Flow: 300 cc/min Vacuum: 70 inches $H_20$

Date: January 29, 2015
Ambient Temp: 45° Barometric Pressure: 27.22 Hg
Serial #: 11944
Field Calibration Date/Time : January 29, 2015 1445

| Well ID | Sample Tube Purge (> 60sec) | Stable Reading | Time Pumped (sec) | Time | %LEL | $\%CH_4$ | $\%CO_2$ | $\%O_2$ | Baro Press | Notes: |
|---|---|---|---|---|---|---|---|---|---|---|
| MM-1 | Y | N | 300 | 16:19:00 PM | 0.0 | 0.0 | 4.6 | 17.4 | 27.22 | Well appearsto be watered in. |
| MM-2 | Y | Y | 180 | 16:25:00 PM | 1284.0 | 64.2 | 35.4 | 0.0 | 27.22 | |
| MM-3 | Y | Y | 240 | 16:31:00 PM | 1044.0 | 52.2 | 34.1 | 0.0 | 27.22 | Cover hasp difficult to open/close |
| MM-4 | Y | Y | 360 | 16:40:00 PM | 550.0 | 27.5 | 23.6 | 0.0 | 27.22 | |
| MM-5 | Y | Y | 180 | 16:46:00 PM | 0.0 | 0.0 | 2.1 | 19.1 | 27.22 | |
| MM-6 | Y | Y | 300 | 16:53:00 PM | 104.0 | 5.2 | 10.5 | 0.0 | 27.22 | |
| MM-7 | Y | Y | 240 | 15:28:00 PM | 0.0 | 0.0 | 4.6 | 15.6 | 27.22 | |
| MM-8 | Y | Y | 240 | 15:37:00 PM | 0.0 | 0.0 | 3.5 | 17.3 | 27.22 | |
| MM-9 | Y | Y | 240 | 15:49:00 PM | 0.0 | 0.0 | 3.7 | 17.5 | 27.22 | |
| MM-10 | Y | Y | 240 | 15:54:00 PM | 0.0 | 0.0 | 13.4 | 6.0 | 27.22 | |
| MM-11 | Y | Y | 210 | 15:58:00 PM | 794.0 | 39.7 | 30.0 | 0.0 | 27.22 | |
| MM-12 | Y | Y | 210 | 16:02:00 PM | 1262.0 | 63.1 | 36.8 | 0.0 | 27.22 | |
| MM-13 | Y | Y | 240 | 16:10:00 PM | 0.0 | 0.0 | 10.6 | 5.1 | 27.22 | |
| SM-1a | Y | Y | 120 | 15:12:00 PM | 0.0 | 0.0 | 0.1 | 20.6 | 27.22 | |
| SM-1b | Y | Y | 120 | 15:21:00 PM | 0.0 | 0.0 | 0.1 | 20.5 | 27.22 | |
| SM-1c | Y | Y | 120 | 15:17:00 PM | 0.0 | 0.0 | 0.1 | 20.6 | 27.22 | |
| SM-2 | Y | Y | 120 | 15:07:00 PM | 0.0 | 0.0 | 0.0 | 20.7 | 27.22 | Garage door open. |
| SM-3 | Y | Y | 120 | 15:41:00 PM | 0.0 | 0.0 | 0.0 | 20.7 | 27.22 | |
| MW-12 | Y | Y | 120 | 15:45:00 PM | 0.0 | 0.0 | 0.0 | 20.7 | 27.22 | |

Note: If methane gas readings exceed 25% of LEL in structures or 100% of LEL in probes contact Haywood County Solid Waste Director immediatley at 828-400-3544.