

## MONITORING WELL LOG: LFG-01 Multi-Level Landfill Gas Monitoring Well

PROJECT NO.: LFG-2026-014

LANDFILL / SITE: North Valley Landfill Perimeter Gas Monitoring

INSTALLATION DATE: 2026-08-27

GROUND ELEVATION: 287.4

LOCATION: Cambridge, Ontario

CLIENT / OWNER: Regional Waste Management Authority

INSTALLATION CONTRACTOR: GeoProbe Environmental Services Ltd. DRILLING / INSTALLATION METHOD: Hollow Stem Auger

MONITORING DATE / ROUND: 08/28/2026 / Baseline

| Depth (ft) | Graphic Log | Material Description                                                                                                                          | Probe ID / Zone        | Sample ID | Methane CH4 (%) | Carbon Dioxide CO2 (%) | Oxygen O2 (%) | Hydrogen Sulfide H2S (ppm) | Pressure / Vacuum (in H2O) | Temperature (C) | Action Level / Status                      | Gas Probe Construction |
|------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------|-----------------|------------------------|---------------|----------------------------|----------------------------|-----------------|--------------------------------------------|------------------------|
| 0.0        |             | Ground Surface                                                                                                                                |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 1.0        |             | TOPSOIL AND VEGETATIVE COVER; dark brown, moist, rooted.                                                                                      |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 2.0        |             | Dark brown                                                                                                                                    |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 3.0        |             | None                                                                                                                                          |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 4.0        |             | COMPACTED CLAY CAP; stiff, brown-grey, moist, low permeability.                                                                               |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 5.0        |             | Brown-grey                                                                                                                                    |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 6.0        |             | None                                                                                                                                          | LFG-01A / 6.0 ft zone  | LFG01-06  | 48.5            | 34.2                   | 0.6           | 22                         | +0.38                      | 28.4            | Elevated methane - confirm next round      |                        |
| 7.0        |             | MUNICIPAL SOLID WASTE; heterogeneous refuse with soil cover, plastic, paper, wood and decomposed organic material; moist; landfill-gas odour. |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 8.0        |             | Dark brown-grey                                                                                                                               |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 9.0        |             | Landfill gas                                                                                                                                  |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 10.0       |             |                                                                                                                                               |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 11.0       |             |                                                                                                                                               |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 12.0       |             |                                                                                                                                               | LFG-01B / 12.0 ft zone | LFG01-12  | 1.2             | 2.8                    | 17.9          | ND                         | -0.02                      | 32.1            | High landfill gas - site response required |                        |
| 13.0       |             |                                                                                                                                               |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 14.0       |             |                                                                                                                                               |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 15.0       |             |                                                                                                                                               |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 16.0       |             | INTERMEDIATE SOIL COVER; sandy silt, compact, brown, moist.                                                                                   |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 17.0       |             | Brown                                                                                                                                         |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 18.0       |             | Slight landfill gas                                                                                                                           |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
| 19.0       |             | SANDY SILT TILL; dense, grey-brown, moist, with gravel.                                                                                       | LFG-01C / 18.0 ft zone | LFG01-18  | 18.6            | 11.2                   | 3.8           | 4                          | +0.12                      | 16.5            | Below site action levels                   |                        |
| 20.0       |             | Grey-brown                                                                                                                                    |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |
|            |             | None                                                                                                                                          |                        |           |                 |                        |               |                            |                            |                 |                                            |                        |

**PROBE / SCREEN / SURFACE COMPLETION:** Three stainless-steel intakes with dedicated tubing; lockable protective monument set in concrete

**PURGE / STABILIZATION METHOD:** Low-flow pump; minimum three internal volumes; readings stable within 0.5% for three consecutive measurements

**LEAK / INTEGRITY TEST:** Tubing and fittings vacuum-tested; shut-in pressure loss less than 0.02 in H2O in 2 minutes; all zones passed

**FIELD INSTRUMENT / CALIBRATION:** Landtec GEM5000; calibrated before use with certified CH4/CO2/O2 span gas; zero check passed

**ACTION LEVELS / RESPONSE:** Site-specific response plan applied; high methane or positive pressure requires confirmation and notification

**COMPLETION / FIELD NOTES:** Valves capped, labelled and secured after monitoring; no surface damage or gas leakage observed