

**TABLE J-5
ONTARIO COUNTY LANDFILL
FACILITY PEAK PTE AFTER PROJECT
FUGITIVE LANDFILL GAS POTENTIAL TO EMIT SUMMARY**

LFG Generation/Collection PTE

Maximum CH4 Generation Rate =	6,288	scfm
Maximum LFG Generation Rate =	12,576	scfm
Collection Efficiency =	80%	
Total Fugitive CH4 =	1,258	scfm
Total Fugitive LFG =	2,515	scfm

Influent LFG Data

NMOC Concentration =	1034	ppmv as hexane
Total Reduced Sulfur (TRS) Concentration =	266	ppmv (200% of measured as conservative est.)

Pollutant	Fugitive Emissions	
	ton/yr	lb/yr
NOx	0.0	0.0
CO	0.0	0.0
SO2	0.0	0.0
PM-10/PM-2.5	0.0	0.0
VOC	59.6	119,239.2
NMOC	152.9	305,741.5
HAPs	24.4	48,793.9
High Ind. HAP	7.6	15,299.0

Emission Factors

Pollutant	Emission Factor	Source
VOC	39% of NMOC	AP-42 Section 2.4 (11/98)
NMOC	231.3 lb/10 ⁶ scf LFG	NMOC ppmv * 86.18 lb/lb-mol /385.3 scf/lb-mol

Sample Calculations

VOC (ton/yr) = NMOC ton/yr * 39%
 NMOC (ton/yr) = EF (lb/10⁶ scf LFG) * (Total Fugitive CH4 (scf/yr)) * (1-Collection Efficiency) * (1 ton/2000 lb)
 HAPs: See Table J-6

Total Fugitive CH4 (scf/yr) = Total Fugitive CH4 (scfm) * 60 min/hr * 8760 hr/yr

Notes:

1. Fugitive emission pollutants include VOCs, NMOCs and HAPs (total uncollected emissions)
2. NOx, CO, SO2, PM and HCl are combustion emissions and not included in fugitive emissions summary
3. Emissions based on total amount on the PTE landfill gas curve and 80% collection efficiency
4. Cover soil oxidation is not included in this estimate (typically estimated at 10% oxidation)