TABLE J-3
ONTARIO COUNTY LANDFILL - PROJECT PTE
EXPANSION LANDFILL
FUGITIVE LANDFILL GAS POTENTIAL TO EMIT SUMMARY

LFG Generation/Collection PTE

Maximum CH4 Generation Rate =	4,809	scfm
Maximum LFG Generation Rate =	9,618	scfm
Collection Efficiency =	80%	
Total Fugitive CH4 =	962	scfm
Total Fugitive LFG =	1,924	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	45.6	91,193.3
NMOC	116.9	233,828.9
HAPs	18.7	37,317.2
High Ind. HAP	5.9	11,700.5

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-4

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)