

**ONTARIO COUNTY LANDFILL  
FACILITY EMISSIONS  
CUMULATIVE IMPACT ASSESSMENT**

TABLE B-1

Emission Source	LFG Capacity (scfm)	Status	ALL SOURCES - PTE								
			NOx (tpy)	CO (tpy)	SO2 (tpy)	PM10 (tpy)	PM2.5 (tpy)	VOC (tpy)	NMOC (tpy)	High Ind. HAP (tpy)	Total HAPs (tpy)
Enclosed Flare 002FL	500	Permitted/Installed	1.1	0.03	5.8	1.1	1.1	0.2	0.6	0.5	0.6
Enclosed Flare 003FL	1,750	Permitted/Installed	5.5	0.5	20.3	3.9	3.9	0.8	2.1	1.8	2.0
Ultra-Low Emissions Enclosed Flare XXXFL	1,200	Permitted/Not Installed	4.0	12.8	13.9	2.7	2.7	0.6	1.5	1.2	1.4
Temporary OP-FLEX Flare (Phase III Open West)	1,200	NYSDEC Op-Flex Approved/Installed	10.8	59.0	13.9	2.7	2.7	0.6	1.5	1.2	1.4
Temporary OP-FLEX Flare (Phase III Open East)	1,200	NYSDEC Op-Flex Approved/Installed	10.8	59.0	13.9	2.7	2.7	0.6	1.5	1.2	1.4
Enclosed Flare 004FL	3,000	Proposed in 2011 Title V Permit App./Not Installed	23.9	79.8	34.9	6.7	6.7	1.4	3.6	3.1	3.5
8 ENGINE LFGTE	2,640	Separately Permitted/Installed	92.9	239.8	30.7	16.7	16.7	1.8	4.5	2.7	4.9
3 ENGINE LFGTE	1,593	Proposed in 2012 LFGTE Title V Permit App./Not Installed	64.6	206.6	18.5	6.5	6.5	1.1	2.7	1.6	3.0
Enclosed Flare EXPFL	5,500	Proposed in Landfill Expansion DEIS/Not Installed	43.9	146.3	63.9	12.3	12.3	2.6	6.7	5.7	6.4
Existing Landfill Fugitive LFG Emissions (95% CE)	340	Permitted/Installed	-	-	-	-	-	8.1	20.7	0.9	3.4
Expansion Landfill Fugitive LFG Emissions (95% CE)	481	Proposed in Landfill Expansion DEIS/Not Installed	-	-	-	-	-	11.4	29.2	1.3	4.8
Peak Year Expansion Landfill Fugitive LFG Emissions (95% CE)	629	Proposed in Landfill Expansion DEIS/Not Installed	-	-	-	-	-	14.9	38.2	1.7	6.2
Totals	-	-	-	-	-	-	-	-	-	-	-

LFG Potentials	LFG Generation (scfm)
Existing Landfill	6,805
Expansion Landfill	9,618
Peak Year Expansion Landfill	12,576

Combustion Emissions LFG Throughput - PTE Collection Efficiency	Fugitive Emissions LFG Throughput - PTE Collection
95%	95%
6,465	340
9,137	481
11,947	629

Notes:

1. LFGTE emissions per Title V Permit Application (January 2012)
2. Flare emissions per Title V Permit and DEIS Attachment G - Air Quality Review
3. PTE combustion emissions based on 95% collection efficiency (fugitives estimated at 5%) of LFG generation

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TABLE C-1

*Operating Scenario Description: Currently constructed LFG Flares (as of June 2012), operating at capacity.*

Emission Source	LFG Capacity (scfm)	Status	EXISTING CONSTRUCTED FLARES (JUNE 2012) PTE OPERATING SCENARIO										
			LFG Rate (scfm)	% of LFG Capacity	NOx (tpy)	CO (tpy)	SO2 (tpy)	PM10 (tpy)	PM2.5 (tpy)	VOC (tpy)	NMOC (tpy)	High Ind. HAP (tpy)	Total HAPs (tpy)
Enclosed Flare 002FL	500	Permitted/Installed	500	100.0%	1.1	0.0	5.8	1.1	1.1	0.2	0.6	0.5	0.6
Enclosed Flare 003FL	1,750	Permitted/Installed	1,750	100.0%	5.5	0.5	20.3	3.9	3.9	0.8	2.1	1.8	2.0
Ultra-Low Emissions Enclosed Flare XXXFL	1,200	Permitted/Not Installed											
Temporary OP-FLEX Flare (Phase III Open West)	1,200	NYSDEC Op-Flex Approved/Installed	1,200	100.0%	10.8	59.0	13.9	2.7	2.7	0.6	1.5	1.2	1.4
Temporary OP-FLEX Flare (Phase III Open East)	1,200	NYSDEC Op-Flex Approved/Installed	1,200	100.0%	10.8	59.0	13.9	2.7	2.7	0.6	1.5	1.2	1.4
Enclosed Flare 004FL	3,000	Proposed in 2011 Title V Permit App./Not Installed											
8 ENGINE LFGTE	2,640	Separately Permitted/Installed											
3 ENGINE LFGTE	1,593	Proposed in 2012 LFGTE Title V Permit App./Not Installed											
Enclosed Flare EXPFL	5,500	Proposed in Landfill Expansion DEIS/Not Installed											
Existing Landfill Fugitive LFG Emissions (95% CE)	340	Permitted/Installed											
Expansion Landfill Fugitive LFG Emissions (95% CE)	481	Proposed in Landfill Expansion DEIS/Not Installed											
Peak Year Expansion Landfill Fugitive LFG Emissions (95% CE)	629	Proposed in Landfill Expansion DEIS/Not Installed											
<b>Totals</b>	-	-	4,650	-	28.3	118.6	54.0	10.4	10.4	2.2	5.7	4.8	5.4

LFG Potentials	LFG Generation (scfm)
Existing Landfill	6,805
Expansion Landfill	9,618
Peak Year Expansion Landfill	12,576

Combustion Emissions LFG Throughput - PTE Collection Efficiency	Fugitive Emissions LFG Throughput - PTE Collection
95%	95%
6,465	340
9,137	481
11,947	629

**Notes:**

1. LFGTE emissions per Title V Permit Application (January 2012)
2. Flare emissions per Title V Permit and DEIS Attachment G - Air Quality Review
3. PTE combustion emissions based on 95% collection efficiency (fugitives estimated at 5%) of LFG generation

ONTARIO COUNTY LANDFILL  
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TABLE D-1

*Operating Scenario Description 1: Peak LFG collection from Existing Permitted Landfill, with 8 Engine LFGTE Plant 100% operating, with the remaining LFG flared in enclosed flares 003FL and 004FL*

Emission Source	LFG Capacity (scfm)	Status	EXISTING LANDFILL & 8 ENGINE LFGTE PTE OPERATING SCENARIO											
			LFG Rate (scfm)	% of LFG Capacity	NOx (tpy)	CO (tpy)	SO2 (tpy)	PM10 (tpy)	PM2.5 (tpy)	VOC (tpy)	NMOC (tpy)	High Ind. HAP (tpy)	Total HAPs (tpy)	
Enclosed Flare 002FL	500	Permitted/Installed												
Enclosed Flare 003FL	1,750	Permitted/Installed	825	47.1%	2.6	0.3	9.6	1.8	1.8	0.4	1.0	0.8	1.0	
Ultra-Low Emissions Enclosed Flare XXXFL	1,200	Permitted/Not Installed												
Temporary OP-FLEX Flare (Phase III Open West)	1,200	NYSDEC Op-Flex Approved/Installed												
Temporary OP-FLEX Flare (Phase III Open East)	1,200	NYSDEC Op-Flex Approved/Installed												
Enclosed Flare 004FL	3,000	Proposed in 2011 Title V Permit App./Not Installed	3,000	100.0%	23.9	79.8	34.9	6.7	6.7	1.4	3.6	3.1	3.5	
8 ENGINE LFGTE	2,640	Separately Permitted/Installed	2,640	100.0%	92.9	239.8	30.7	16.7	16.7	1.8	4.5	2.7	4.9	
3 ENGINE LFGTE	1,593	Proposed in 2012 LFGTE Title V Permit App./Not Installed												
Enclosed Flare EXPFL	5,500	Proposed in Landfill Expansion DEIS/Not Installed												
Existing Landfill Fugitive LFG Emissions (95% CE)	340	Permitted/Installed	340	100.0%	-	-	-	-	-	8.1	20.7	0.9	3.4	
Expansion Landfill Fugitive LFG Emissions (95% CE)	481	Proposed in Landfill Expansion DEIS/Not Installed												
Peak Year Expansion Landfill Fugitive LFG Emissions (95% CE)	629	Proposed in Landfill Expansion DEIS/Not Installed												
<b>Totals</b>	-	-	6,805	-	119.4	319.9	75.1	25.2	25.2	11.6	29.8	7.6	12.8	

LFG Potentials	LFG Generation (scfm)
Existing Landfill	6,805
Expansion Landfill	9,618
Peak Year Expansion Landfill	12,576

Combustion Emissions LFG Throughput - PTE Collection Efficiency	Fugitive Emissions LFG Throughput - PTE Collection
95%	95%
6,465	340
9,137	481
11,947	629

**Notes:**

1. LFGTE emissions per Title V Permit Application (January 2012)
2. Flare emissions per Title V Permit and DEIS Attachment G - Air Quality Review
3. PTE combustion emissions based on 95% collection efficiency (fugitives estimated at 5%) of LFG generation

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TABLE D-2

Operating Scenario 2 Description: Peak LFG collection from Existing Permitted Landfill with 11 Engine LFGTE Plant 100% operating, with the remaining LFG flared in enclosed flare 004FL

Emission Source	LFG Capacity (scfm)	Status	EXISTING LANDFILL & 11 ENGINE LFGTE PTE OPERATING SCENARIO										High Ind. HAP (tpy)	Total HAPs (tpy)	
			LFG Rate (scfm)	% of LFG Capacity	NOx (tpy)	CO (tpy)	SO2 (tpy)	PM10 (tpy)	PM2.5 (tpy)	VOC (tpy)	NMOC (tpy)				
Enclosed Flare 002FL	500	Permitted/Installed													
Enclosed Flare 003FL	1,750	Permitted/Installed													
Ultra-Low Emissions Enclosed Flare XXXFL	1,200	Permitted/Not Installed													
Temporary OP-FLEX Flare (Phase III Open West)	1,200	NYSDEC Op-Flex Approved/Installed													
Temporary OP-FLEX Flare (Phase III Open East)	1,200	NYSDEC Op-Flex Approved/Installed													
Enclosed Flare 004FL	3,000	Proposed in 2011 Title V Permit App./Not Installed	2,232	74.4%	17.8	59.4	25.9	5.0	5.0	1.1	2.7	2.3	2.6		
8 ENGINE LFGTE	2,640	Separately Permitted/Installed	2,640	100.0%	92.9	239.8	30.7	16.7	16.7	1.8	4.5	2.7	4.9		
3 ENGINE LFGTE	1,593	Proposed in 2012 LFGTE Title V Permit App./Not Installed	1,593	100.0%	64.6	206.6	18.5	6.5	6.5	1.1	2.7	1.6	3.0		
Enclosed Flare EXPFL	5,500	Proposed in Landfill Expansion DEIS/Not Installed													
Existing Landfill Fugitive LFG Emissions (95% CE)	340	Permitted/Installed	340	100.0%	-	-	-	-	-	8.1	20.7	0.9	3.4		
Expansion Landfill Fugitive LFG Emissions (95% CE)	481	Proposed in Landfill Expansion DEIS/Not Installed													
Peak Year Expansion Landfill Fugitive LFG Emissions (95% CE)	629	Proposed in Landfill Expansion DEIS/Not Installed													
<b>Totals</b>	-	-	6,805	-	175.3	505.7	75.1	28.1	28.1	11.9	30.6	7.6	13.9		

LFG Potentials	LFG Generation (scfm)
Existing Landfill	6,805
Expansion Landfill	9,618
Peak Year Expansion Landfill	12,576

Combustion Emissions LFG Throughput - PTE Collection Efficiency	Fugitive Emissions LFG Throughput - PTE Collection
95%	95%
6,465	340
9,137	481
11,947	629

Notes:

1. LFGTE emissions per Title V Permit Application (January 2012)
2. Flare emissions per Title V Permit and DEIS Attachment G - Air Quality Review
3. PTE combustion emissions based on 95% collection efficiency (fugitives estimated at 5%) of LFG generation

**ONTARIO COUNTY LANDFILL  
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TABLE D-3  
*Operating Scenario 3 Description: Peak LFG collection from Expansion Landfill (plus LFG generation from Existing Landfill at Expansion Landfill Closure Year) with 11 Engine LFGTE Plant 100% operating, with the remaining LFG flared in enclosed flares 004FL and EXPFL*

Emission Source	LFG Capacity (scfm)	Status	PEAK YEAR EXPANSION LANDFILL OPERATING SCENARIO											
			LFG Rate (scfm)	% of LFG Capacity	NOx (tpy)	CO (tpy)	SO2 (tpy)	PM10 (tpy)	PM2.5 (tpy)	VOC (tpy)	NMOC (tpy)	High Ind. HAP (tpy)	Total HAPs (tpy)	
Enclosed Flare 002FL	500	Permitted/Installed												
Enclosed Flare 003FL	1,750	Permitted/Installed												
Ultra-Low Emissions Enclosed Flare XXXFL	1,200	Permitted/Not Installed												
Temporary OP-FLEX Flare (Phase III Open West)	1,200	NYSDEC Op-Flex Approved/Installed												
Temporary OP-FLEX Flare (Phase III Open East)	1,200	NYSDEC Op-Flex Approved/Installed												
Enclosed Flare 004FL	3,000	Proposed in 2011 Title V Permit App./Not Installed	3,000	100.0%	23.9	79.8	34.9	6.7	6.7	1.4	3.6	3.1	3.5	
8 ENGINE LFGTE	2,640	Separately Permitted/Installed	2,640	100.0%	92.9	239.8	30.7	16.7	16.7	1.8	4.5	2.7	4.9	
3 ENGINE LFGTE	1,593	Proposed in 2012 LFGTE Title V Permit App./Not Installed	1,593	100.0%	64.6	206.6	18.5	6.5	6.5	1.1	2.7	1.6	3.0	
Enclosed Flare EXPFL	5,500	Proposed in Landfill Expansion DEIS/Not Installed	4,714	85.7%										
Existing Landfill Fugitive LFG Emissions (95% CE)	340	Permitted/Installed												
Expansion Landfill Fugitive LFG Emissions (95% CE)	481	Proposed in Landfill Expansion DEIS/Not Installed												
Peak Year Expansion Landfill Fugitive LFG Emissions (95% CE)	629	Proposed in Landfill Expansion DEIS/Not Installed	629	100.0%	-	-	-	-	-	14.9	38.2	1.7	6.2	
<b>Totals</b>	-	-	12,576	-	181.4	526.2	84.1	29.8	29.8	19.1	49.1	9.2	17.6	

LFG Potentials	LFG Generation (scfm)
Existing Landfill	6,805
Expansion Landfill	9,618
Peak Year Expansion Landfill	12,576

Combustion Emissions LFG Throughput - PTE Collection Efficiency	Fugitive Emissions LFG Throughput - PTE Collection
95%	95%
6,465	340
9,137	481
11,947	629

- Notes:
1. LFGTE emissions per Title V Permit Application (January 2012)
  2. Flare emissions per Title V Permit and DEIS Attachment G - Air Quality Review
  3. PTE combustion emissions based on 95% collection efficiency (fugitives estimated at 5%) of LFG generation

ONTARIO COUNTY LANDFILL  
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TABLE D-4

Operating Scenario 4 Description: Peak LFG collection from Expansion Landfill (plus LFG generation from Existing Landfill at Expansion Landfill Closure Year) with 100% of LFG flared in enclosed flares

Emission Source	LFG Capacity (scfm)	Status	PEAK YEAR EXPANSION LANDFILL OPERATING SCENARIO - LFGTE NON OPERATIONAL										
			LFG Rate (scfm)	% of LFG Capacity	NOx (tpy)	CO (tpy)	SO2 (tpy)	PM10 (tpy)	PM2.5 (tpy)	VOC (tpy)	NMOC (tpy)	High Ind. HAP (tpy)	Total HAPs (tpy)
Enclosed Flare 002FL	500	Permitted/Installed	500	100.0%	1.1	0.03	5.8	1.1	1.1	0.2	0.6	0.5	0.6
Enclosed Flare 003FL	1,750	Permitted/Installed	1,750	100.0%	5.5	0.5	20.3	3.9	3.9	0.8	2.1	1.8	2.0
Ultra-Low Emissions Enclosed Flare XXXFL	1,200	Permitted/Not Installed	1,200	100.0%	4.0	12.8	13.9	2.7	2.7	0.6	1.5	1.2	1.4
Temporary OP-FLEX Flare (Phase III Open West)	1,200	NYSDEC Op-Flex Approved/Installed											
Temporary OP-FLEX Flare (Phase III Open East)	1,200	NYSDEC Op-Flex Approved/Installed											
Enclosed Flare 004FL	3,000	Proposed in 2011 Title V Permit App./Not Installed	3,000	100.0%	23.9	79.8	34.9	6.7	6.7	1.4	3.6	3.1	3.5
8 ENGINE LFGTE	2,640	Separately Permitted/Installed											
3 ENGINE LFGTE	1,593	Proposed in 2012 LFGTE Title V Permit App./Not Installed											
Enclosed Flare EXPFL	5,500	Proposed in Landfill Expansion DEIS/Not Installed	5,500	100.0%	43.9	146.3	63.9	12.3	12.3	2.6	6.7	5.7	6.4
Existing Landfill Fugitive LFG Emissions (95% CE)	340	Permitted/Installed											
Expansion Landfill Fugitive LFG Emissions (95% CE)	481	Proposed in Landfill Expansion DEIS/Not Installed											
Peak Year Expansion Landfill Fugitive LFG Emissions (95% CE)	629	Proposed in Landfill Expansion DEIS/Not Installed	629	100.0%	-	-	-	-	-	14.9	38.2	1.7	6.2
Totals	-	-	12,579	-	78.4	239.4	138.9	26.7	26.7	20.6	52.7	14.0	20.2

LFG Potentials	LFG Generation (scfm)
Existing Landfill	6,805
Expansion Landfill	9,618
Peak Year Expansion Landfill	12,576

Combustion Emissions LFG Throughput - PTE Collection Efficiency	Fugitive Emissions LFG Throughput - PTE Collection
95%	95%
6,465	340
9,137	481
11,947	629

Notes:

1. LFGTE emissions per Title V Permit Application (January 2012)
2. Flare emissions per Title V Permit and DEIS Attachment G - Air Quality Review
3. PTE combustion emissions based on 95% collection efficiency (fugitives estimated at 5%) of LFG generation