

Snapshot: Emission Test Reports and Annual Summaries (2020)

PI No.	Designated MSW Landfills	Permit Activity No.	Pollution Control Device(s)	Date(s)	Pollutant	Concentrations*	Would the 2020 annual NMOC emissions exceed the 34 megagrams per year (mg/yr) limit? Y/N
73258	Cape May County MUA Secure Landfill	BOP150001	LFG Engines/Generators	April 23-24, 2019	% Generator Eff VOC	96.74% 0.019 g/BHP-hr [Unit 4] 0.093 g/BHP-hr [Unit 5] 0.049 g/BHP-hr [Unit 6]	No
				May 4-5, 2021	% Generator Eff NMHC Outlet	0.97 (97%) 3.10 ppm [Unit 4] 5.13 ppm [Unit 5] 5.88 ppm [Unit 6]	
				2020	VOC (Total) VOC (Fugitive)	<u>Annual Est.</u> 0.77 tpy [0.69 mg/yr] 15.12 tpy [13.71 mg/yr]	
17901	Cinnamon Bay LLC & Edgeboro Landfill Disposal, Inc.	BOP170001	Enclosed Flares	October 15-16, 2019	% DRE VOC Inlet (as CH ₄) VOC Outlet (as CH ₄)	>98.9% [CD8] >99.2% [CD7] 4.04 lb/hr [CD8] 3.61 lb/hr [CD7] <0.04 lb/hr [CD8]	No
			LFG Engines	June 24-25, 2021	% DRE VOC (as CH ₄)	<0.03 lb/hr [CD7] 96% 0.7 lb/hr [Engine 2] 0.78 lb/hr [Engine 4] 0.23 lb/hr [Engine 5]	
				2020	VOC (Total) VOC (Fugitive)	<u>Annual Est.</u> 22.40 tpy [20.32 mg/yr] 0.80 tpy [0.725 mg/yr]	
55923	Gloucester County Solid Waste Complex	BOP140001	LFG Flare System (Enclosed Flare, Flare #1)	June 25, 2010	% DRE NMOC Inlet (as hexane) NMOC Outlet (as hexane)	99.3% 1.786 lb/hr 0.013 lb/hr	No
			Enclosed Flare (Flare #2)	September 27-28, 2021	% DRE NMOC Inlet NMOC Outlet	95.9% 4.15 lb/hr (as C ₁) 0.16 lb/hr (as carbon)	
				2020	VOC (Total)	<u>Annual Est.</u> 8.38 tpy [7.6 mg/yr]	
13317	Keegan SLF	BOP200001, PCP190001	GCS/LFG Enclosure Flare	The NMOC emission statement/report for FY2020 was not available at the time this document was prepared. Presently, Keegan SLF does not have an approved operating or preconstruction permit. The landfill operates an active LFG collection and control system. Pending applications [BOP2000001, PCP190001] include the Title V Operating permit for the landfill and the installation of an enclosed, permanent flare. Note that one utility flare will remain in operation as backup.			
42247	Linden City SLF Secure Landfill	BOP140001	GCS/LFG Enclosed Flare	September 14-15, 2011	% DRE NMOC Inlet NMHC Outlet	98.6% 0.374 lb/hr (as hexane) 0.005 lb/hr (as hexane)	No
				2020	VOC (Total) VOC (Fugitive)	<u>Annual Est.</u> 0.57 tpy [0.52 mg/yr] 4.40 tpy [4 mg/yr]	
21351	Monmouth County Reclamation Center	BOP200001	GCS/LFG Flares (LFG Turbines)	May 12-13, 2016	VOC (as methane)	0.043 lb/hr [U1] 0.150 lb/gr [U2]	

				2020	VOC (Total) VOC (Fugitive)	<u>Annual Est.</u> 0.59 tpy [0.53 mg/yr] 14.74 tpy [13.37 mg/yr]	No
46588	Parklands Recycling & Disposal Facility	PCP160001	Enclosed Flare	December 1, 2011	% DE NMOC Inlet (as CH ₄) NMOC Outlet (as THC)	96.8% 0.093 lb/hr (as carbon) 0.003 lb/hr (as carbon)	
				2020	VOC	<u>Annual Est.</u> 0.57 tpy [0.51 mg/yr]***	No
70217	Pinelands Park	PCP110001	GCS/LFG Enclosed Flare	November 16, 2010	VOC**	0.023 lb/hr	
				2020	VOC	<u>Annual Est.</u> 7.18 tpy [6.51 mg/yr]***	No

*Minor discrepancies due to rounding. Test dates reflect average concentration values; facility-wide annual emissions are presented for FY2020.

**VOC destruction efficiency tests were not conducted [at the time], as the facility planned to show compliance by the alternate concentration limit

***No Emission Statement prepared/submitted, because the landfill generated < 10 tpy VOC. Calculated emission rates listed.

Note: NJDEP defines VOC as "any compound of carbon (other than carbon monoxide, carbon dioxide, carbonic acid, metallic carbonates, metallic carbides, and ammonium carbonate) which participates in atmospheric photochemical reactions." For the purpose of determining compliance with emission limits or content standards, VOC shall be measured by test methods in the approved SIP (such as N.J.A.C. 7:27B-3) or 40 CFR Part 60, Appendix A, as applicable, or which have been approved in writing by the Department and are acceptable to EPA. This term excludes those compounds which EPA has excluded from its definition of VOC in the list set forth at 40 CFR 51.100(s)(1). NMOC is a category of compounds that includes VOCs, but also includes other organic pollutants that are not as volatile as a VOC.

Emission rates reported in the Emission Statement(s) prepared by the above listed designated MSW landfills and are submitted to the Department are reported in concentrations of VOCs. For the purpose of this table, it is conservatively assumed that annual VOC emission rates reported in these reports are 100% representative of NMOCs.

Terms

PI = Program Interest

PCP = preconstruction permit

GCS = Gas collection system

LFG = Landfill gas

DRE = Destruction and Removal Efficiency

DE = Destruction Efficiency

VOC = Volatile organic compounds

NMOC = non-methane organic compounds