

Fact Sheet



For Final Renewal Permitting Action Under 45CSR30 and Title V of the Clean Air Act

Permit Number: **R30-07900103-2021**
Application Received: **September 29, 2020**
Plant Identification Number: **079-00103**
Permittee: **Disposal Service, Inc.**
Mailing Address: **P. O. Box 448, Hurricane, WV 25526**

Revised: N/A

Physical Location: Hurricane, Putnam County, West Virginia
UTM Coordinates: 410.86 km Easting • 4250.24 km Northing • Zone 17
Directions: On the right hand side of State Route 34, approximately 1/2 mile south of the intersection of State Route 34 and U.S. Route 60 near Hurricane in Putnam County.

Facility Description

The Disposal Service, Inc. (DSI) sanitary landfill (NAICS 562212, SIC 4953) is comprised of approximately 335.3 acres which includes two disposal areas (covering 84.7 acres) and support facilities. The disposal areas are commonly referred to as Phase I and Phase II. Phase I has a design capacity of 4,133,263 Mg on 44.5 acres for disposal operations. A Phase II disposal area (future) is 40.2 acres with a design capacity of 4,618,574 Mg. As Phase I approaches capacity, Phase II will be opened to continue waste disposal operations. The landfill accepts an average of 500 tons per day.

Emissions Summary

Plantwide Emissions Summary [Tons per Year]		
Regulated Pollutants	Potential Emissions	2019 Actual Emissions
Carbon Monoxide (CO)	33.83	4.12
Nitrogen Oxides (NO _x)	1.3	0.90
Particulate Matter (PM _{2.5})	8.21	7.48
Particulate Matter (PM ₁₀)	21.30	9.04
Total Particulate Matter (TSP)	113.65	75.90
Sulfur Dioxide (SO ₂)	0.6	0.21
Volatile Organic Compounds (VOC)	38.62	5.88

PM₁₀ is a component of TSP.

Hazardous Air Pollutants	Potential Emissions	2019 Actual Emissions
Total HAPs	15.72	5.91
Toluene	5.33	2.12
Xylene	1.89	0.75
HCl	0.80	0.04
Other HAPs	7.7	3

Some of the above HAPs may be counted as PM or VOCs.

Non-methane organic compounds (NMOC) – The current emission rate estimate (calculated for year 2017) is 7.94 Mg/yr. The projected closure year is 2076 (2059 with the 80-year limit) with a projected maximum NMOC emission rate estimate of 8.88 Mg/yr. The projected NMOC emission rate of 34 Mg/yr, triggering the requirements for the construction of a collection and control system, is estimated to never occur based on current waste acceptance rates. The NMOC emission rate estimates were calculated using EPA’s Landfill Gas Emissions Model (LandGEM) software. The values used for k and Lo were “0.050 year⁻¹” and “170 m³/Mg” respectively. The site specific NMOC concentration used in the model was 81 ppmv as hexane, as determined by Tier 2 testing in 2017.

Title V Program Applicability Basis

This facility has a design capacity over 2.5 million megagrams and 2.5 million cubic meters. Due to this facility's design capacity, Disposal Service, Inc. is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This facility has been found to be subject to the following applicable rules:

Federal and State: 45CSR6 Open burning prohibited.

	45CSR10	Emissions of sulfur oxides.
	45CSR11	Standby plans for emergency episodes.
	45CSR13	NSR permitting
	45CSR23	To Prevent and Control Emissions from Municipal Solid Waste Landfills
	WV Code § 22-5-4 (a) (14)	The Secretary can request any pertinent information such as annual emission inventory reporting.
	45CSR30	Operating permit requirement.
	40 C.F.R. Part 61	Asbestos inspection and removal
	40 C.F.R. Part 82, Subpart F	Ozone depleting substances
State Only:	45CSR4	No objectionable odors.
	45CSR17	To Prevent and Control Particulate Matter Air Pollution from Materials Handling, Preparation, Storage and other sources of Fugitive Particulate Matter

Each State and Federally-enforceable condition of the Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

Active Permits/Consent Orders

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit (<i>if any</i>)
R13-2688	1/30/2007	

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table," which may be downloaded from DAQ's website.

Determinations and Justifications

This is a renewal of the Title V permit which was issued on March 31, 2016. Changes to the most recent version of the Title V permit consist of the following:

- 1) **Title V permit section 4.0 had major changes due to 40 CFR 60 Subpart WWW changes that were published on March 26, 2020 and changes to 45CSR23 effective on June 1, 2021**
 - a. The Disposal Service Sanitary Landfill is a municipal solid waste landfill (MSWL) that commenced construction, reconstruction, or modification on or after May 30, 1991, but before July 14, 2014 and is subject to the requirements of 40 CFR 60 Subpart WWW. According to 40CFR§60.750(d), an affected facility must continue to comply with 40 CFR 60 Subpart

WWW until it becomes subject to the more stringent requirements in an approved and effective state or federal plan that implements 40 CFR 60 Subpart Cf or it modifies or reconstructs after July 17, 2014 and becomes subject to 40 CFR 60 Subpart XXX. 45CSR23, effective on June 1, 2021 implements 40 CFR 60 Subpart Cf, so the Disposal Service Sanitary Landfill is now subject to the requirements of 45CSR23 instead of 40 CFR 60 Subpart WWW. Therefore, Title V permit Section 4.0's former conditions from 40 CFR 60 Subpart WWW were replaced with the conditions from 45CSR§23-7. Conditions within 45CSR§23-7 for a MSWL having a design capacity less than 2.5 million megagrams or 2.5 million cubic meters were not included because the Disposal Service Sanitary Landfill exceeds these design limits.

- b. This facility is not currently required to have an active collection system and control device installed because of their NMOC emissions; however, they have voluntarily installed one for odor control purposes. They are currently Tier 2 with NMOC emissions of 7.94 Mg/yr. NMOC emissions must be reported annually or a 5 year-projection must be provided in lieu of the annual report in accordance with condition 4.5.2.c.
- c. The reports required under conditions 4.5.1 and 4.5.2 were submitted in May 2019.
- d. 40 CFR 63 Subpart AAAA and 45CSR34 requirements were not included in this renewal due to LandGEM HAP calculations received from the facility totaling less than 25 TPY total HAPs and less than 10 TPY of any individual HAP. A L_0 of 100 and a k value of 0.40 was used to calculate the HAPs, and this calculation showed that they are not a major source for HAPs.

Non-Applicability Determinations

The following requirements have been determined not to be applicable to the subject facility due to the following:

- a. 40 C.F.R. Part 60, Subpart Kb: Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984: The Diesel Fuel Tank's capacity is below 75 m³, therefore this subpart does not apply.
- b. 40 C.F.R. 64—Compliance Assurance Monitoring (CAM): The facility is not CAM applicable because the flares (01C-020C) are used to control VOC and their PTE is less than 100 tons per year.
- c. 40 CFR 63, Subpart AAAA—NESHAP for Municipal Solid Waste Landfills: This facility is not subject to AAAA because: this MSW landfill is not a major source of HAPs; the MSW landfill is not collocated with a major source of HAPs; the MSW landfill is an area source with a design capacity equal to or greater than 2.5 million megagrams (Mg) and 2.5 million cubic meters (m³) and has estimated uncontrolled emissions less than 50 megagrams per year (Mg/yr) NMOC; and this MSW landfill does not include a bioreactor, as defined in 40 C.F.R §63.1990.

Request for Variances or Alternatives

None.

Insignificant Activities

Insignificant emission unit(s) and activities are identified in the Title V application.

Comment Period

Beginning Date: June 17, 2021
Ending Date: July 19, 2021

Point of Contact

All written comments should be addressed to the following individual and office:

Nikki Moats
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone: 304/926-0499 ext. 41282
Nikki.B.Moats@wv.gov

Procedure for Requesting Public Hearing

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

Response to Comments (Statement of Basis)

None