

103RD GENERAL ASSEMBLY State of Illinois 2023 and 2024 SB3393

Introduced 2/8/2024, by Sen. Laura Fine

SYNOPSIS AS INTRODUCED:

415 ILCS 5/22.40b new

Amends the Environmental Protection Act. Requires an owner or operator of an active municipal solid waste landfill with than 200,000 or more tons of waste in place to submit an annual waste-in-place report to the Environmental Protection Agency until the active municipal solid waste landfill has 450,000 or more tons of waste in place or the Agency issues a certificate of closure to the site. Requires an owner or operator of an active municipal solid waste landfill having 200,000 or more tons of waste in place or a closed municipal solid waste landfill having 400,000 or more tons of waste in place to calculate the methane generation rate and submit a methane generation rate report to the Agency. Sets forth actions an owner or operator of a municipal solid waste landfill must take if there is a calculated methane generation rate that is greater than or equal to 664 metric tons. Requires an owner or operator of a municipal solid waste landfill to conduct a source test for any gas control device using certain test methods. Provides that no location on a municipal solid waste landfill surface may exceed specified methane concentration limits. Establishes the methods that must be used for measurements and tests. Sets forth penalties for violations of the provisions. Allows the Agency to adopt rules to implement the provisions. Makes other changes.

LRB103 36385 LNS 66486 b

1 AN ACT concerning safety.

Be it enacted by the People of the State of Illinois, represented in the General Assembly:

- Section 5. The Environmental Protection Act is amended by adding Section 22.40b as follows:
- 6 (415 ILCS 5/22.40b new)
- 7 <u>Sec. 22.40b. Methane emissions; landfills.</u>
- 8 (a) In this Section:
- "Active municipal solid waste landfill" means a municipal solid waste landfill that has accepted or is accepting solid waste for disposal and has not been closed in accordance with the requirements set forth in Sections 22.17 and 22.19b.
- "Advanced methane monitoring technology" means technology
 that can detect methane emissions at landfills, including, but
 not limited to, technologies such as drones, mobile ground
 vehicles, continuous emissions monitoring systems, and
 satellite technologies that measure surface methane at
 landfills.
- "Agency" means the Environmental Protection Agency.
- 20 <u>"Closed municipal solid waste landfill" means a municipal</u>
 21 <u>solid waste landfill that no longer accepts solid waste for</u>
 22 <u>disposal and has been closed in accordance with the</u>
 23 post-closure requirements set forth in Sections 22.17 and

1	22.	19b.

- 2 "Emission" means a release of an air contaminant into the
- 3 <u>ambient air.</u>
- 4 "Gas collection system" means a system that employs
- 5 various gas collection wells, connected piping, mechanical
- 6 blowers, fans, pumps, or compressors to create a pressure
- 7 gradient and that actively extracts landfill gas.
- 8 <u>"Gas control device" means a device used to dispose of or</u>
- 9 treat collected landfill gas, including, but not limited to,
- 10 enclosed flares, internal combustion engines, boilers,
- 11 <u>boiler-to-steam turbine systems</u>, fuel cells, and gas turbines.
- "Gas control system" means a system that disposes of or
- treats collected landfill gas by:
- 14 (1) combustion; or
- 15 (2) treatment of gas for subsequent sale or for sale
- for off-site processing, including, but not limited to,
- for transportation fuel and injection into a natural gas
- 18 pipeline.
- "Municipal solid waste landfill" means a discrete area of
- 20 land or an excavation that receives household waste and that
- 21 is not a land application site, surface impoundment, injection
- 22 well, or pile.
- "Person" means an individual, firm, public or private
- 24 corporation, association, partnership, political subdivision
- of the State, municipality, or governmental agency.
- 26 (b) This Section applies to all municipal solid waste

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1 landfills, except: 2 (1) landfills that receive only hazardous we currently regulated under the federal Compensation, and Liast and 4 Environmental Response, Compensation, and Liast and 6 (2) landfills that receive only inerty nondecomposable wastes. 8 (c) The Agency shall propose and adopt rules to this Section. 10 (d) An owner or operator of an active municular waste landfill having less than 200,000 tons of waste must submit an annual waste-in-place report to until (i) the active municipal solid waste last 450,000 or more tons of waste in place or (ii) issues a certificate of closure to the site. 11 (1) prepared for the period of January December 31 of each year; and 12 (2) submitted to the Agency in the following calendar year by a date establis Agency by rule. 13 (e) An owner or operator of an active municular waste landfill having 200,000 or more tons of waste					
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tons of waste in place must calculate a methane generation

rate in accordance with subsection (k) and the Agency's rules

1	and must submit a methane generation rate report to the
2	Agency. If the calculated methane generation rate is less than
3	664 metric tons, the owner or operator must:
4	(1) recalculate the methane generation rate annually
5	using the procedures specified in subsection (j) and the
6	rules adopted under this Section; and
7	(2) submit an annual methane generation rate report to
8	the Agency until either:
9	(A) the calculated methane generation rate is
10	greater than or equal to 664 metric tons; or
11	(B) if the municipal solid waste landfill is
12	active, the owner or operator submits a closure
13	notification in accordance with subsection (i).
14	(f) If the methane generation rate is greater than or
15	equal to 664 metric tons, the owner or operator must either:
16	(1) comply with the requirements of this Section and
17	the rules adopted under this Section; or
18	(2) demonstrate to the satisfaction of the Agency that
19	after 4 years there is no measured concentration of
20	methane that is greater than or equal to 200 parts per
21	million, by volume, using the instantaneous surface
22	monitoring procedures specified in the rules adopted under
23	this Section, based on the monitoring results, and:
24	(A) if there is any measured concentration of
25	methane that is greater than or equal to 200 parts per
26	million, by volume, from the surface of the active or

1	closed municipal solid waste landfill, comply with
2	this Section and the rules adopted under this Section;
3	(B) if there is no measured concentration of
4	methane that is greater than or equal to 200 parts per
5	million, by volume, from the surface of the active
6	municipal solid waste landfill, recalculate the
7	methane generation rate annually as required under
8	this Section until the owner or operator submits a
9	closure notification under subsection (j); or
10	(C) if there is no measured concentration of
11	methane that is greater than or equal to 200 parts per
12	million, by volume, from the surface of a closed
13	municipal solid waste landfill, submit to the Agency
14	<pre>for approval:</pre>
15	(i) a waste-in-place report in accordance with
16	this Section and the rules adopted under this
17	Section; and
18	(ii) all instantaneous surface monitoring
19	records.
20	(g) An owner or operator of a municipal solid waste
21	landfill that has a calculated methane generation rate that is
22	greater than or equal to 664 metric tons must install a gas
23	collection and control system that meets the requirements of
24	this Section and the rules adopted under this Section, unless
25	the owner or operator demonstrates to the satisfaction of the
26	Agency that after 4 years there is no measured concentration

of methane that is greater than or equal to 200 parts per million, by volume, using instantaneous surface monitoring procedures. If a municipal solid waste landfill partners with a third party to operate all or a portion of the gas collection and control system or energy recovery device, the obligation to comply with this Section is the responsibility of the owner or operator of the relevant portion of the gas collection and control system or energy recovery device.

- (1) The gas collection and control system required under this subsection (g) must handle the expected gas generation flow rate from the entire area of the municipal solid waste landfill and must collect gas at an extraction rate that complies with the surface methane emission limits under this Section and the rules adopted under this Section.
- (2) The gas collection and control system required under this subsection (g) must be designed and operated so that there is no landfill gas leak that results in a concentration of methane that is greater than or equal to 500 parts per million of methane, by volume, measured at any component under positive pressure, and it must collect gas in all areas of the landfill at an extraction rate in compliance with the surface methane emission limits.
- (3) If the gas collection and control system required under this subsection (g) uses a flare, the gas collection and control system must achieve a methane destruction

1	efficiency of at least 99%, by weight, and it may use an
2	enclosed flare or, until January 1, 2029, an open flare.
3	(4) If the gas collection and control system uses an
4	<pre>open flare:</pre>
5	(A) the open flare must meet the requirements of
6	40 CFR 60.18; and
7	(B) the owner must report to the Agency the
8	duration of the open flare if the duration exceeded 10
9	<u>days.</u>
10	(5) If the gas collection and control system does not
11	use a flare, the gas collection and control system must
12	either route the collected gas to an energy recovery
13	device or must route the collected gas to a treatment
14	system that processes the collected gas for subsequent
15	sale or use.
16	(6) If the gas collection and control system routes
17	the collected gas to an energy recovery device or devices,
18	the owner or operator of the energy recovery device or
19	devices must comply with the following requirements:
20	(A) the device must achieve a methane destruction
21	efficiency of at least 99%, by weight, except for
22	lean-burn internal combustion engines that were
23	installed and operating before January 1, 2022, which
24	must reduce the outlet methane concentration to less
25	than 3,000 parts per million, by volume, dry basis
26	corrected to 15% oxygen; and

	(B)	if a	boil	ler	or a	pro	cess	hea	ater	is	used	as	the
gas	cont	rol	devi	ce,	the	lar	ndfi	11 🤇	gas	stre	eam n	nust	be
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- (7) If the gas collection and control system routes the collected gas to a treatment system that processes the collected gas for subsequent sale or use, the gas collection and control system must achieve a methane leak rate of 1% or less, by weight, and venting processed landfill gas to the ambient air is not allowed.
- (8) If the processed landfill gas cannot be routed for subsequent sale or use, then the treated landfill gas must achieve a methane destruction efficiency of at least 99%, by weight.
- (h) Each owner or operator of an active municipal solid waste landfill with a gas collection and control system must operate the gas collection and control system so that gas is collected from areas, cells, or groups of cells in the municipal solid waste landfill in which solid waste has been in place for one or more years.
- (i) An owner or operator of a municipal solid waste landfill must conduct a source test for any gas control device that is subject to this Section, using the relevant test methods identified in or adopted pursuant to this Section. If

a gas control device was in compliance with relevant source testing requirements on June 9, 2023, the owner or operator must conduct the source test no less frequently than once every year. If a gas control device was not in compliance with source testing requirements on June 9, 2023, or if a subsequent source test shows the gas control device is out of compliance, the owner or operator must conduct the source test no less frequently than once every 6 months until 2 subsequent consecutive tests both show compliance.

- January 1 of the year following the year in which the Agency adopts rules to implement this Section or, in the case of a gas collection and control system installed or modified after that date, beginning on the date that the gas collection and control system begins operation, whichever is later, the concentration of methane measured from the surface of the landfill shall not, except in the case of nonrepeatable momentary readings, exceed:
 - (1) 200 parts per million, by volume, if measured by instantaneous surface emissions monitoring; or
- (2) an average methane concentration limit of 25 parts per million, by volume, if measured by integrated surface emissions monitoring.
- The owner or operator must record all readings, must include the date, location, and value of each reading, and, for any reading that exceeds the limits, must record the date,

location, and value of each exceedance, along with retest
dates and results and the location of each exceedance must be
clearly marked and identified on a topographic map of the
municipal solid waste landfill, drawn to scale, with the
location of both the monitoring grids and the gas collection
system clearly identified; and (ii) take corrective action,
which may include, but is not limited to, maintenance or
repair of the cover, or well vacuum adjustments. The location
or locations of any exceedance must be monitored within 10
calendar days after a measured exceedance.

Through its implementing rules, the Agency must determine the monitoring actions and corrective actions required in response to a methane emissions reading provided to the Agency or the landfill operator or owner by a credible third party, with the goal of quickly mitigating methane emission point sources.

- (k) An owner or operator of a municipal solid waste landfill with a gas collection and control system must:
 - (1) conduct instantaneous and integrated surface monitoring of the landfill surface, including using advanced methane technology to assist with the objective of comprehensive monitoring across the entire surface area, according to rules adopted by the Agency;
 - (2) monitor the gas control system according to the requirements specified in rules adopted by the Agency; and
 (3) monitor each individual wellhead to determine the

1	gauge pressure and water accumulation levels according to
2	the requirements specified in rules adopted by the Agency.
3	(1) An owner or operator of a municipal solid waste
4	<pre>landfill must:</pre>
5	(1) maintain records and prepare reports in accordance
6	with this Section and any rules adopted under this
7	Section;
8	(2) maintain records related to monitoring, testing,
9	landfill operations, and the operation of a gas control
10	device, gas collection system, and gas control system. The
11	records must be provided by the owner or operator to the
12	Agency within 5 business days after a request from the
13	Agency;
14	(3) maintain records related to the type of face and
15	percentage of face used, timing of final cover
16	installation on each cell, the dates of intermediate and
17	final cover installation, the type of cover installed, and
18	the annual amount of methane gas collected from the waste
19	under intermediate and daily cover;
20	(4) if the landfill ceases to accept waste, submit a
21	closure notification to the Agency within 30 days after
22	ceasing to accept waste; and
23	(5) submit a gas collection and control system
24	equipment removal report to the Agency within 30 days
25	after well capping or the removal or cessation of
26	operation of the gas collection, treatment, or control

system equipment. An owner or operator of either an active
municipal solid waste landfill with 200,000 or more tons
of waste-in-place or a closed municipal solid waste
landfill with 400,000 or more tons of waste-in-place must
prepare an annual report for the period of January 1
through December 31 of each year. The annual report must
include a calculation of methane generation rate. Each
annual report must be submitted to the Agency during the
subsequent calendar year, with the date of submission to
be established through rules.

- (m) Except as provided under paragraph (8), the following methods must be used for measurements and tests conducted under this Section:
 - (1) any instrument used for the measurement of methane must be a hydrocarbon detector or other equivalent instrument approved by the Agency based on standards adopted by the Agency that address calibration, specifications, and performance criteria;
 - (2) the determination of methane generation rate must be calculated consistent with the rules adopted under this Section;
 - (3) an owner or operator of a municipal solid waste landfill must measure the landfill surface concentration of methane using a hydrocarbon detector meeting the requirements of this Section and the rules adopted under this Section;

1	(4) an owner or operator of a municipal solid waste
2	landfill must measure leaks using a hydrocarbon detector,
3	inclusive of advanced methane detection technology,
4	meeting the requirements of this Section and the rules
5	adopted under this Section;
6	(5) the expected gas generation flow rate must be
7	determined according to the rules adopted under this
8	Section;
9	(6) the control device destruction efficiency must be
10	at least 99% and must be compliant with Agency rules;
11	(7) gauge pressure must be determined using a handheld
12	manometer, magnehelic gauge, or other pressure measuring
13	device approved by the Agency; and
14	(8) alternative test methods may be used if they are
15	approved in writing by the Agency; and
16	(9) water accumulation levels must be determined
17	according to the rules adopted under this Section.
18	In the rules adopted under this Section, the Agency shall
19	develop a performance-based standard for permanent removal of
20	the gas collection and control system after landfill closure,
21	with a procedure for surface emissions demonstration.
22	(n) An owner or operator of a municipal solid waste
23	landfill may request alternatives to the compliance measures,
24	monitoring requirements, and test methods and procedures set
25	forth in this Section and the rules adopted under this
26	Section. Any alternatives requested by the owner or operator

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1	must be submitted in writing to the Agency. The criteria that
2	the Agency may use to evaluate alternative compliance option
3	requests include, but are not limited to:
4	(1) compliance history;
5	(2) documentation containing the landfill gas flow
6	rate and measured methane concentrations for individual
7	gas collection wells or components;
8	(3) permits;
9	(4) component testing and surface monitoring results;
10	(5) gas collection and control system operation,
11	maintenance, and inspection records; and
12	(6) historical meteorological data.
13	The Agency must review and either approve or disapprove
14	the requested alternatives within 120 days. The Agency may
15	request that additional information be submitted as part of
16	the review of the requested alternatives. If a request for an
17	alternative compliance option is denied, the Agency must
18	provide written reasons for the denial. The Agency must deny a
19	request for alternative compliance measures if the request
20	does not provide levels of enforceability or methane emissions

(o) The Agency may request that any owner or operator of a municipal solid waste landfill demonstrate that a landfill does not meet the applicability criteria required under this Section. The demonstration must be submitted to the Agency

control that are equivalent to those set forth in this Section

or in rules adopted by the Agency under this Section.

within 90 days of a written request received from the Agency.

- (p) Any person who violates this Section or any rules adopted under this Section may incur a civil penalty under Section 42 of the Environmental Protection Act. The Agency shall waive penalties if the owner or operator of the landfill is actively taking corrective actions to control any methane exceedances. Penalties collected under this Section shall be deposited into the Environmental Protection Trust Fund.
- (q) The Agency may assess and collect such fees as may be necessary to recover the direct and indirect costs associated with the implementation of this Section.