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HOUSE BILL NO. 1443

AMENDMENT IN THE NATURE OF A SUBSTITUTE

(Proposed by the House Committee on Agriculture, Chesapeake and Natural Resources
on _____)

(Patron Prior to Substitute—Delegate Lopez)

A BILL to amend and reenact § 62.1-44.19:3 of the Code of Virginia, relating to owners of sewage treatment works; land application, marketing, or distribution of sewage sludge; perfluoroalkyl and polyfluoroalkyl substances; testing requirements.

Be it enacted by the General Assembly of Virginia:**1. That § 62.1-44.19:3 of the Code of Virginia is amended and reenacted as follows:****§ 62.1-44.19:3. Prohibition on land application, marketing, and distribution of sewage sludge without permit; ordinances; notice requirement; fees.**

A. 1. No owner of a sewage treatment works shall land apply, market, or distribute sewage sludge from such treatment works except in compliance with a valid Virginia Pollutant Discharge Elimination System Permit or valid Virginia Pollution Abatement Permit.

2. Sewage sludge shall be treated to meet standards for land application as required by Board regulation prior to delivery at the land application site. No person shall alter the composition of sewage sludge at a site approved for land application of sewage sludge under a Virginia Pollution Abatement Permit or a Virginia Pollutant Discharge Elimination System. Any person who engages in the alteration of such sewage sludge shall be subject to the penalties provided in Article 6 (§ 62.1-44.31 et seq.). The addition of lime or deodorants to sewage sludge that has been treated to meet land application standards shall not constitute alteration of the composition of sewage sludge. The Department may authorize public institutions of higher education to conduct scientific research on the composition of sewage sludge that may be applied to land.

3. No person shall contract or propose to contract, with the owner of a sewage treatment works, to land apply, market, or distribute sewage sludge in the Commonwealth, nor shall any person land apply, market, or distribute sewage sludge in the Commonwealth without a current Virginia Pollution Abatement Permit authorizing land application, marketing, or distribution of sewage sludge and specifying the location or locations, and the terms and conditions of such land application, marketing, or distribution. The permit application shall not be complete unless it includes the landowner's written consent to apply sewage sludge on his property.

4. The land disposal of lime-stabilized septage and unstabilized septage is prohibited.

5. Beginning July 1, 2007, no application for a permit or variance to authorize the storage of sewage sludge shall be complete unless it contains certification from the governing body of the locality in which the sewage sludge is to be stored that the storage site is consistent with all applicable ordinances. The governing body shall confirm or deny consistency within 30 days of receiving a request for certification. If the governing body does not so respond, the site shall be deemed consistent.

B. The Board, with the assistance of the Department of Conservation and Recreation and the Department of Health, shall adopt regulations to ensure that (i) sewage sludge permitted for land application, marketing, or distribution is properly treated or stabilized; (ii) land application, marketing, and distribution of sewage sludge is performed in a manner that will protect public health and the environment; and (iii) the escape, flow, or discharge of sewage sludge into state waters in a manner that would cause pollution of state waters, as those terms are defined in § 62.1-44.3, shall be prevented.

C. Regulations adopted by the Board, with the assistance of the Department of Conservation and Recreation and the Department of Health pursuant to subsection B, shall include:

1. Requirements and procedures for the issuance and amendment of permits, including general permits, authorizing the land application, marketing, or distribution of sewage sludge;

2. Procedures for amending land application permits to include additional application sites and sewage sludge types;

3. Standards for treatment or stabilization of sewage sludge prior to land application, marketing, or distribution;

4. Requirements for determining the suitability of land application sites and facilities used in land application, marketing, or distribution of sewage sludge;

5. Required procedures for land application, marketing, and distribution of sewage sludge;

6. Requirements for sampling, analysis, recordkeeping, and reporting in connection with land application, marketing, and distribution of sewage sludge;

7. Provisions for notification of local governing bodies to ensure compliance with §§ 62.1-44.15:3 and 62.1-44.19:3.4;

8. Requirements for site-specific nutrient management plans, which shall be developed by persons certified in accordance with § 10.1-104.2 prior to land application for all sites where sewage sludge is land

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60 applied, and approved by the Department of Conservation and Recreation prior to permit issuance under
61 specific conditions, including but not limited to sites operated by an owner or lessee of a Confined Animal
62 Feeding Operation, as defined in subsection A of § 62.1-44.17:1, or Confined Poultry Feeding Operation, as
63 defined in § 62.1-44.17:1.1, sites where the permit authorizes land application more frequently than once
64 every three years at greater than 50 percent of the annual agronomic rate, and other sites based on
65 site-specific conditions that increase the risk that land application may adversely impact state waters;

66 9. Procedures for the prompt investigation and disposition of complaints concerning land application of
67 sewage sludge, including the requirements that (i) holders of permits issued under this section shall report all
68 complaints received by them to the Department and to the local governing body of the jurisdiction in which
69 the complaint originates and (ii) localities receiving complaints concerning land application of sewage sludge
70 shall notify the Department and the permit holder. The Department shall maintain a searchable electronic
71 database of complaints received during the current and preceding calendar year, which shall include
72 information detailing each complaint and how it was resolved;

73 10. Procedures for receiving and responding to public comments on applications for permits and for
74 permit amendments authorizing land application at additional sites. Such procedures shall provide that an
75 application for any permit amendments to increase the acreage authorized by the initial permit by 50 percent
76 or more shall be treated as a new application for purposes of public notice and public hearings; and

77 11. Procedures for addressing administrative, staging, signage, and additional on-site and alternative
78 storage site requirements when routine and on-site storage facility capacity and holding times are anticipated
79 to be exceeded for the purpose of protecting against the release of sewage sludge into state waters, and to
80 account for increased intensity, frequency, and duration of storm events.

81 D. Prior to issuance of a permit authorizing the land application, marketing, or distribution of sewage
82 sludge, the Department shall consult with and give full consideration to the written recommendations of the
83 Department of Health and the Department of Conservation and Recreation. Such consultation shall include
84 any public health risks or water quality impacts associated with the permitted activity. The Department of
85 Health and the Department of Conservation and Recreation may submit written comments on proposed
86 permits within 30 days after notification by the Department.

87 E. Where, because of site-specific conditions, including soil type, identified during the permit application
88 review process, the Department determines that special requirements are necessary to protect the environment
89 or the health, safety, or welfare of persons residing in the vicinity of a proposed land application site, the
90 Department may incorporate in the permit at the time it is issued reasonable special conditions regarding
91 buffering, transportation routes, slope, material source, methods of handling and application, and time of day
92 restrictions exceeding those required by the regulations adopted under this section. Before incorporating any
93 such conditions into the permit, the Department shall provide written notice to the permit applicant,
94 specifying the reasons therefor and identifying the site-specific conditions justifying the additional
95 requirements. The Department shall incorporate into the notice any written requests or recommendations
96 concerning such site-specific conditions submitted by the local governing body where the land application is
97 to take place. The permit applicant shall have at least 14 days in which to review and respond to the proposed
98 conditions.

99 F. The Board shall adopt regulations prescribing a fee to be charged to all permit holders and persons
100 applying for permits and permit modifications pursuant to this section. All fees collected pursuant to this
101 subsection shall be deposited into the Sludge Management Fund. The fee for the initial issuance of a permit
102 shall be \$5,000. The fee for the reissuance, amendment, or modification of a permit for an existing site shall
103 not exceed \$1,000 and shall be charged only for permit actions initiated by the permit holder. Fees collected
104 under this section shall be exempt from statewide indirect costs charged and collected by the Department of
105 Accounts and shall not supplant or reduce the general fund appropriation to the Department.

106 G. There is hereby established in the treasury a special fund to be known as the Sludge Management
107 Fund, hereinafter referred to as the Fund. The fees required by this section and by subsection E of
108 § 62.1-44.16 shall be transmitted to the Comptroller to be deposited into the Fund. The income and principal
109 of the Fund shall be used only and exclusively (i) for the Department's direct and indirect costs associated
110 with the processing of an application to issue, reissue, amend, or modify any permit to land apply, distribute,
111 or market sewage sludge or industrial wastes, the administration and management of the Department's sewage
112 sludge and industrial wastes land application programs, including monitoring and inspecting, and the
113 Department of Conservation and Recreation's costs for implementation of the sewage sludge application
114 program and (ii) to reimburse localities with duly adopted ordinances providing for the testing and
115 monitoring of the land application of sewage sludge or solid or semisolid industrial wastes. The State
116 Treasurer shall be the custodian of the moneys deposited in the Fund. No part of the Fund, either principal or
117 interest earned thereon, shall revert to the general fund of the state treasury.

118 H. All persons holding or applying for a permit authorizing the land application of sewage sludge shall
119 provide to the Board written evidence of financial responsibility, which shall be available to pay claims for
120 cleanup costs, personal injury, and property damages resulting from the transportation, storage, or land
121 application of sewage sludge. The Board shall, by regulation, establish and prescribe mechanisms for meeting

the financial responsibility requirements of this section.

I. Any county, city, or town may adopt an ordinance that provides for the testing and monitoring of the land application of sewage sludge within its political boundaries to ensure compliance with applicable laws and regulations.

J. The Department, upon the timely request of any individual to test the sewage sludge at a specific site, shall collect samples of the sewage sludge at the site prior to the land application and submit such samples to a laboratory. The testing shall include an analysis of the (i) concentration of trace elements, (ii) coliform count, and (iii) pH level. The results of the laboratory analysis shall be (a) furnished to the individual requesting that the test be conducted and (b) reviewed by the Department. The person requesting the test and analysis of the sewage sludge shall pay the costs of sampling, testing, and analysis.

K. At least 100 days prior to commencing land application of sewage sludge at a permitted site, the permit holder shall deliver or cause to be delivered written notification to the chief executive officer or his designee for the local government where the site is located. The notice shall identify the location of the permitted site and the expected sources of the sewage sludge to be applied to the site. This requirement may be satisfied by providing a list of all available permitted sites in the locality at least 100 days prior to commencing the application at any site on the list. This requirement shall not apply to any application commenced prior to October 10, 2005. If the site is located in more than one county, the notice shall be provided to all jurisdictions where the site is located.

L. The permit holder shall deliver or cause to be delivered written notification to the Department at least 14 days prior to commencing land application of sewage sludge at a permitted site. The notice shall identify the location of the permitted site and the expected sources of the sewage sludge to be applied to the site.

M. The Department shall randomly conduct unannounced site inspections while land application of sewage sludge is in progress at a sufficient frequency to determine compliance with the requirements of this section, § 62.1-44.19:3.1, or regulations adopted under those sections.

N. Surface incorporation into the soil of sewage sludge applied to cropland may be required when practicable and compatible with a soil conservation plan meeting the standards and specifications of the U.S. Department of Agriculture Natural Resources Conservation Service.

O. The Board shall develop regulations specifying and providing for extended buffers to be employed for application of sewage sludge (i) to hay, pasture, and forestlands or (ii) to croplands where surface incorporation is not practicable or is incompatible with a soil conservation plan meeting the standards and specifications of the U.S. Department of Agriculture Natural Resources Conservation Service. Such extended buffers may be included by the Department as site specific permit conditions pursuant to subsection E, as an alternative to surface incorporation when necessary to protect odor sensitive receptors as determined by the Department or the local monitor.

P. The Board shall adopt regulations requiring the payment of a fee for the land application of sewage sludge, pursuant to permits issued under this section. The person land applying sewage sludge shall (i) provide advance notice of the estimated fee to the generator of the sewage sludge unless notification is waived, (ii) collect the fee from the generator, and (iii) remit the fee to the Department as provided for by regulation. The fee shall be imposed on each dry ton of sewage sludge that is land applied in the Commonwealth. The regulations shall include requirements and procedures for:

1. Collection of fees by the Department;
2. Deposit of the fees into the Fund; and
3. Disbursement of proceeds by the Department pursuant to subsection G.

Q. The Department, in consultation with the Department of Health, the Department of Conservation and Recreation, the Department of Agriculture and Consumer Services, and the Virginia Cooperative Extension Service, shall establish and implement a program to train persons employed by those local governments that have adopted ordinances, pursuant to this section, to test and monitor the land application of sewage sludge. The program shall include, at a minimum, instruction in: (i) the provisions of the Virginia Biosolids Use Regulations; (ii) land application methods and equipment, including methods and processes for preparation and stabilization of sewage sludge that is land applied; (iii) sampling and chain of custody control; (iv) preparation and implementation of nutrient management plans for land application sites; (v) complaint response and preparation of complaint and inspection reports; (vi) enforcement authority and procedures; (vii) interaction and communication with the public; and (viii) preparation of applications for reimbursement of local monitoring costs disbursed pursuant to subsection G. To the extent feasible, the program shall emphasize in-field instruction and practical training. Persons employed by local governments shall successfully complete such training before the local government may request reimbursement from the Board for testing and monitoring of land application of sewage sludge performed by the person. The completion of training shall not be a prerequisite to the exercise of authority granted to local governments by any applicable provision of law.

The Department may:

1. Charge attendees a reasonable fee to recover the actual costs of preparing course materials and

183 providing facilities and instructors for the program. The fee shall be reimbursable from the Fund established
184 pursuant to this section; and

185 2. Request and accept the assistance and participation of other state agencies and institutions in preparing
186 and presenting the course of training established by this subsection.

187 R. Localities, as part of their zoning ordinances, may designate or reasonably restrict the storage of
188 sewage sludge based on criteria directly related to the public health, safety, and welfare of its citizens and the
189 environment. Notwithstanding any contrary provision of law, a locality may by ordinance require that a
190 special exception or a special use permit be obtained to begin the storage of sewage sludge on any property in
191 its jurisdiction, including any area that is zoned as an agricultural district or classification. Such ordinances
192 shall not restrict the storage of sewage sludge on a farm as long as such sludge is being stored (i) solely for
193 land application on that farm and (ii) for a period no longer than 45 days. No person shall apply to the State
194 Health Commissioner or the Department of Environmental Quality for a permit, a variance, or a permit
195 modification authorizing such storage without first complying with all requirements adopted pursuant to this
196 subsection.

197 S. (Expires July 1, 2030) The permitting requirements of this article shall not apply to any land
198 application of sewage sludge for a research project when such land is owned and operated by an institution of
199 higher education in the Commonwealth. At least 30 days prior to commencing any land application of sewage
200 sludge, the institution of higher education shall notify the Department and the owner of every adjoining
201 property of its intent to land apply such sewage sludge. The institution of higher education shall comply with
202 setback and recordkeeping requirements as outlined in the Virginia Pollution Abatement Permit Regulation
203 (9VAC25-32). As used in this subsection, "institution of higher education" means a public institution of
204 higher education, as that term is defined in § 23.1-100.

205 T. Beginning January 1, 2027, any owner of a sewage treatment works land applying, marketing, or
206 distributing sewage sludge in the Commonwealth shall collect representative samples of the finished sewage
207 sludge product and have such samples analyzed by an accredited laboratory for PFAS, as that term is
208 defined in § 62.1-44.34:29, using U.S. Environmental Protection Agency (EPA) Method 1633, an applicable
209 EPA revision, or another method approved by the EPA that may be allowed by the Department. The minimum
210 frequency of such sampling shall be monthly for the initial sampling period from January 1, 2027, through
211 December 31, 2027, and thereafter may be reduced to not less frequently than quarterly upon the approval of
212 the Department. Such owner shall provide the concentration results for PFOS or PFOA, as those terms are
213 defined § 62.1-44.34:29 and all other target analytes from the analysis to the Department and any person
214 land applying sewage sludge from the sewage treatment works within 10 days of receipt of such results. After
215 July 1, 2027, if the analysis finds:

216 1. A PFOS or PFOA concentration in the sewage sludge of greater than or equal to 50 micrograms per
217 kilogram annual geometric mean on a rolling 12-month basis, such sewage sludge shall not be land applied.
218 The owner of the sewage treatment works shall arrange for alternative treatment, use, or disposal of such
219 sewage sludge until a subsequent sample test result demonstrates a concentration of less than 50 micrograms
220 per kilogram;

221 2. A PFOS or PFOA concentration in the sewage sludge of greater than or equal to 25 but less than 50
222 micrograms per kilogram annual geometric mean on a rolling 12-month basis, the permit holder shall reduce
223 the application rate to three dry tons per acre, not to exceed the application rate required by the nutrient
224 management plan, or submit to the Department for approval an alternative risk management strategy at least
225 two weeks prior to land application in lieu of the reduced land application rate. Such permit holder shall
226 reduce the application rate required in this subdivision until a subsequent sample test result demonstrates a
227 concentration of less than 25 micrograms per kilogram. The permit holder shall send the concentrations for
228 PFOS or PFOA demonstrating compliance with this subsection and the concentrations for all other target
229 analytes required in this subsection in a reader-friendly format by email or mail to the landowner at every
230 property at which the permit holder intends to land apply such sewage sludge at least two weeks prior to land
231 application. Notwithstanding the provisions of this subdivision, if any single test results exceeds 75
232 micrograms per kilogram, the owner of the sewage treatment works shall promptly collect another sample for
233 testing and if the result of the retest exceeds 75 micrograms per kilogram, such owner shall arrange for the
234 alternative treatment, use, or disposal of such sewage sludge until a subsequent sample result demonstrates a
235 concentration of less than 50 micrograms per kilogram; or

236 3. A PFOS and PFOA concentration in the sewage sludge of less than 25 micrograms per kilogram
237 annual geometric mean on a rolling 12-month basis, the permit holder may land apply such sewage sludge in
238 accordance with its permit with no additional requirements. The permit holder shall send the concentrations
239 for PFAS and PFOA demonstrating compliance with this subdivision and the concentrations for all other
240 target analytes required by this subsection in a reader-friendly format by email or mail to the landowner at
241 every property at which the permit holder intends to land apply such sewage sludge at least two weeks prior
242 to land application.

243 When sewage sludge from two or more sewage sludge treatment works are blended prior to land
244 application, the requirements of subdivisions 1, 2, and 3 shall be applied to the blended sewage sludge taking

245 *into account the concentrations and amounts of sewage sludge contributed by each sewage sludge treatment*
246 *works.*

247 2. That the Department of Environmental Equality shall modify all Virginia Pollution Abatement
248 permits for the land application of sewage sludge and Virginia Pollutant Discharge Elimination System
249 permits for sewage treatment works that include sewage sludge prepared for land application,
250 marketing, or distribution as soon as practicable consistent with the provisions of § 62.1-44.19:3 of the
251 Code of Virginia, as amended by this act. Such modification shall be deemed a minor modification and
252 processed consisted with the procedures for a minor modification.

253 3. That the Department of Environmental Quality (the Department) shall convene a work group to
254 study the occurrence of perfluoroalkyl and polyfluoroalkyl substances (PFAS) in sewage sludge
255 intended for land application within the Commonwealth. Such work group shall consist of owners of
256 sewage sludge treatment works, private companies that land apply, market, or distribute sewage
257 sludge, relevant nonprofit organizations, and any other stakeholder the Department deems
258 appropriate. The work group shall develop recommendations for (i) a PFAS sampling program for
259 industrial residuals and industrial by-products that are land applied; (ii) a PFAS sampling program
260 for fields where land application of sewage sludge, industrial residuals, and industrial by-products
261 occurs; (iii) a source reduction strategy for when sewage sludge is found to contain PFAS; (iv)
262 opportunities to expand PFAS remediation and disposal options in the Commonwealth; (v) additional
263 studies regarding PFAS in soils; (vi) any appropriate revisions to the concentration-based biosolids
264 management tiers established by this act; and (vii) additional studies or appropriate PFAS sampling
265 programs for sewage sludge from routine storage facilities with a Virginia Pollution Abatement permit.
266 Such recommendations shall include the anticipated implementation date for any proposed program or
267 action listed in clauses (i) through (vii). The Department shall report the recommendations of the work
268 group to the Governor and the Chairmen of the Senate Committee on Agriculture, Conservation and
269 Natural Resources and House Committee on Agriculture, Chesapeake and Natural Resources by
270 November 1, 2027. The work group shall also recommend a reader-friendly format for presenting the
271 compliance data for PFOS and PFOA, as those terms are defined in § 62.1-44.34:29 of the Code of
272 Virginia, and other target analyte concentrations to landowners. The Department shall publish such
273 recommendation by October 1, 2026.

274 4. That the provisions of the first enactment of this act shall become effective January 1, 2027.