Second Regular Session Seventy-first General Assembly STATE OF COLORADO

ENGROSSED

This Version Includes All Amendments Adopted on Second Reading in the House of Introduction

LLS NO. 18-0654.01 Jennifer Berman x3286

HOUSE BILL 18-1093

HOUSE SPONSORSHIP

Arndt, Thurlow, Bridges

SENATE SPONSORSHIP

Coram, Guzman

House Committees

Senate Committees

Agriculture, Livestock, & Natural Resources Appropriations

	A BILL FOR AN ACT
101	CONCERNING THE ALLOWABLE USES OF RECLAIMED DOMESTIC
102	WASTEWATER, AND, IN CONNECTION THEREWITH, ALLOWING
103	RECLAIMED DOMESTIC WASTEWATER TO BE USED FOR FOOD
104	CROPS AND MAKING AN APPROPRIATION.

Bill Summary

(Note: This summary applies to this bill as introduced and does not reflect any amendments that may be subsequently adopted. If this bill passes third reading in the house of introduction, a bill summary that applies to the reengrossed version of this bill will be available at http://leg.colorado.gov.)

The bill codifies rules promulgated by the water quality control commission (commission) of the Colorado department of public health and environment concerning allowable uses of reclaimed domestic wastewater, which is wastewater that has been treated for subsequent reuses other than drinking water.

Section 3 of the bill defines 3 categories of water quality standards for reclaimed domestic wastewater, sets forth the allowable uses for each water quality standard category, and adds food crop irrigation as an allowable use for reclaimed domestic wastewater. Section 3 also authorizes the commission to establish new categories of water quality standards and to recategorize any use of reclaimed domestic wastewater to a less stringent category of water quality standard. Section 3 also authorizes the division of administration in the department of public health and environment to grant variances for uses of reclaimed domestic wastewater.

Sections 1, 2, and 4 make conforming amendments.

1 *Be it enacted by the General Assembly of the State of Colorado:* 2 **SECTION 1.** In Colorado Revised Statutes, 25-8-103, amend 3 (17.5) as follows: 4 **25-8-103. Definitions.** As used in this article 8, unless the context 5 otherwise requires: 6 (17.5) "Reclaimed domestic wastewater" means wastewater that 7 has received treatment IN ACCORDANCE WITH SECTION 25-8-205.7 AND 8 that enables the wastewater to meet the requirements, prohibitions, 9 standards, and concentration limitations adopted by the commission for 10 subsequent reuses other than drinking. 11 **SECTION 2.** In Colorado Revised Statutes, 25-8-205, amend 12 (1)(f) as follows: 13 25-8-205. **Control regulations.** (1) The commission may 14 promulgate control regulations for the following purposes: 15 (f) IN ACCORDANCE WITH SECTION 25-8-205.7, to describe 16 requirements, prohibitions, standards, and concentration limitations on the 17 reuse of reclaimed domestic wastewater for purposes other than drinking 18 that will protect public health and encourage the reuse of reclaimed

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1	domestic wastewater;
2	SECTION 3. In Colorado Revised Statutes, add 25-8-205.7 as
3	follows:
4	25-8-205.7. Control regulations for reuse of reclaimed
5	domestic wastewater - definitions - rules. (1) AS USED IN THIS SECTION
6	UNLESS THE CONTEXT OTHERWISE REQUIRES:
7	(a) "CATEGORY 1 STANDARD" MEANS A WATER QUALITY
8	STANDARD FOR RECLAIMED DOMESTIC WASTEWATER:
9	(I) REQUIRING, AT A MINIMUM, THAT THE WATER HAS RECEIVED
10	SECONDARY TREATMENT WITH DISINFECTION; AND
11	(II) FOR WHICH, AT THE POINT OF COMPLIANCE, THE WATER MEETS
12	THE E. COLI AND TOTAL SUSPENDED SOLIDS STANDARDS PROMULGATED BY
13	THE COMMISSION FOR CATEGORY 1 WATER.
14	(b) "CATEGORY 2 STANDARD" MEANS A WATER QUALITY
15	STANDARD FOR RECLAIMED DOMESTIC WASTEWATER:
16	(I) REQUIRING, AT A MINIMUM, THAT THE WATER HAS RECEIVED
17	SECONDARY TREATMENT WITH FILTRATION AND DISINFECTION; AND
18	(II) FOR WHICH, AT THE POINT OF COMPLIANCE, THE WATER MEETS
19	THE E. COLI AND TURBIDITY STANDARDS PROMULGATED BY THE
20	COMMISSION FOR CATEGORY 2 WATER.
21	(c) "CATEGORY 3 STANDARD" MEANS A WATER QUALITY
22	STANDARD FOR RECLAIMED DOMESTIC WASTEWATER:
23	(I) REQUIRING, AT A MINIMUM, THAT THE WATER HAS RECEIVED
24	SECONDARY TREATMENT WITH FILTRATION AND DISINFECTION; AND
25	(II) FOR WHICH, AT THE POINT OF COMPLIANCE, THE WATER MEETS
26	THE E. COLI AND TURBIDITY STANDARDS PROMULGATED BY THE
27	COMMISSION FOR CATEGORY 3 WATER.

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1	(d) "E. COLI" MEANS THE ESCHERICHIA COLI BACTERIA THAT ARE
2	FOUND IN THE ENVIRONMENT, FOODS, AND THE INTESTINES OF PEOPLE AND
3	ANIMALS.
4	$(e)(I)\hbox{"Food Crop" Means a Crop Produced for Direct Human}$
5	CONSUMPTION OR A TREE THAT PRODUCES NUTS OR FRUIT INTENDED FOR
6	DIRECT HUMAN CONSUMPTION.
7	(II) "FOOD CROP" DOES NOT INCLUDE A CROP PRODUCED FOR
8	ANIMAL CONSUMPTION ONLY; EXCEPT THAT A CROP PRODUCED WHERE
9	LACTATING DAIRY ANIMALS FORAGE IS A FOOD CROP.
10	(f) (I) "POINT OF COMPLIANCE" MEANS, EXCEPT AS PROVIDED IN
11	SUBSECTION $(1)(f)(II)$ OF THIS SECTION, A POINT, AS IDENTIFIED BY THE
12	PERSON THAT TREATS THE WATER, IN THE RECLAIMED DOMESTIC
13	WASTEWATER TREATMENT PROCESS OR THE RECLAIMED DOMESTIC
14	WASTEWATER TRANSPORTATION PROCESS, THAT OCCURS AFTER ALL
15	TREATMENT HAS BEEN COMPLETED BUT BEFORE DILUTION AND BLENDING
16	OF THE WATER HAS OCCURRED.
17	(II) IF RECLAIMED DOMESTIC WASTEWATER IS USED FOR INDOOR
18	NONPOTABLE USES WITHIN A BUILDING WHERE PLUMBING FIXTURES ARE
19	ACCESSIBLE BY THE GENERAL PUBLIC, "POINT OF COMPLIANCE" IS AT THE
20	LOCATION WHERE WATER IS DELIVERED TO THE OCCUPIED PREMISES.
21	(2) RECLAIMED DOMESTIC WASTEWATER MAY BE USED AS
22	FOLLOWS:
23	(a) IN COMPLIANCE WITH THE CATEGORY 1 STANDARD, FOR:
24	(I) EVAPORATIVE INDUSTRIAL PROCESSES;
25	(II) NONEVAPORATIVE INDUSTRIAL PROCESSES;
26	$(III)\ Nondischarging construction and road maintenance;\\$
27	(IV) LANDSCAPE IRRIGATION AT SITES WITH RESTRICTED ACCESS;

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1	(V) ZOO OPERATIONS;
2	(VI) NONFOOD CROPS; AND
3	(VII) SILVICULTURE;
4	(b) IN COMPLIANCE WITH THE CATEGORY 2 STANDARD, FOR:
5	(I) ALL OF THE USES FOR WHICH RECLAIMED DOMESTIC
6	WASTEWATER MAY BE USED IN COMPLIANCE WITH THE CATEGORY 1
7	STANDARD;
8	(II) WASHWATER APPLICATIONS;
9	(III) LANDSCAPE IRRIGATION AT SITES WITHOUT RESTRICTED
10	ACCESS;
11	(IV) COMMERCIAL LAUNDRIES;
12	(V) AUTOMATED VEHICLE WASHING;
13	(VI) MANUAL, NONPUBLIC VEHICLE WASHING;
14	(VII) NONRESIDENTIAL FIRE PROTECTION; AND
15	(VIII) IF USED IN ACCORDANCE WITH SUBSECTION (4) OF THIS
16	SECTION, IRRIGATION OF FOOD CROPS FOR COMMERCIAL USE;
17	(c) IN COMPLIANCE WITH THE CATEGORY 3 STANDARD, FOR:
18	(I) All of the uses for which reclaimed domestic
19	WASTEWATER MAY BE USED IN COMPLIANCE WITH THE CATEGORY 1
20	STANDARD AND THE CATEGORY 2 STANDARD;
21	(II) LANDSCAPE IRRIGATION AT SITES THAT ARE CONTROLLED BY
22	RESIDENTS;
23	(III) RESIDENTIAL FIRE PROTECTION; AND
24	(IV) IF USED IN ACCORDANCE WITH SUBSECTION (3) OF THIS
25	SECTION, IRRIGATION OF FOOD CROPS FOR NONCOMMERCIAL USE.
26	(3) ALL RECLAIMED DOMESTIC WASTEWATER SYSTEMS MUST BE
27	COMPLIANT WITH AND INSTALLED IN ACCORDANCE WITH APTICLE 58 OF

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1	TITLE 12 AND ANY RULES PROMULGATED PURSUANT TO THAT ARTICLE.
2	(4) In addition to complying with the category 2 standard
3	PURSUANT TO SUBSECTION (2)(b)(VIII) OF THIS SECTION OR THE
4	CATEGORY 3 STANDARD PURSUANT TO SUBSECTION (2)(c)(IV) OF THIS
5	SECTION AND REGARDLESS OF WHETHER THE USE IS FOR FOOD CROPS
6	PRODUCED FOR COMMERCIAL USE OR NONCOMMERCIAL USE, RECLAIMED
7	DOMESTIC WASTEWATER MAY BE USED FOR IRRIGATION OF FOOD CROPS
8	ONLY IF THE USE MEETS THE WATER QUALITY STANDARDS FOR
9	COMMERCIAL CROPS SET FORTH IN THE FEDERAL "FDA FOOD SAFETY
10	MODERNIZATION ACT", PUB.L. 111-353, AS AMENDED. IN PROMULGATING
11	RULES FOR THE CATEGORY 2 AND CATEGORY 3 STANDARDS AT THE POINT
12	OF COMPLIANCE FOR USE OF RECLAIMED DOMESTIC WASTEWATER FOR
13	IRRIGATION OF FOOD CROPS, THE COMMISSION SHALL NOT PROMULGATE
14	ANY RULE THAT IS MORE STRINGENT THAN THE RELEVANT STANDARDS SET
15	FORTH IN THE FEDERAL "FDA FOOD SAFETY MODERNIZATION ACT",
16	Pub.L. 111-353, as amended.
17	(5) (a) On or before December 31, 2019, the commission may
18	PROMULGATE RULES IN ACCORDANCE WITH THIS SECTION.
19	(b) IN PROMULGATING RULES IN ACCORDANCE WITH THIS SECTION,
20	THE COMMISSION:
21	(I) MAY CREATE NEW CATEGORIES OF WATER QUALITY
22	STANDARDS BEYOND THE THREE CATEGORIES SET FORTH IN THIS SECTION
23	AND
24	(II) MAY RECATEGORIZE ANY OF THE USES SET FORTH IN
25	SUBSECTION (2) OF THIS SECTION TO A LESS STRINGENT CATEGORY OF
26	WATER QUALITY STANDARD.
27	(c) The commission, by rule, may authorize additional uses

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1	OF RECLAIMED DOMESTIC WASTEWATER FOR ANY OF THE CATEGORIES OF
2	WATER QUALITY STANDARDS SET FORTH IN SUBSECTION (2) OF THIS
3	SECTION OR MAY CREATE A NEW CATEGORY OF WATER QUALITY
4	STANDARD FOR ONE OR MORE ADDITIONAL USES OF RECLAIMED DOMESTIC
5	WASTEWATER.
6	(d) THE COMMISSION MAY PROMULGATE RULES MORE STRINGENT
7	THAN THE STANDARDS AND CATEGORIES SET FORTH IN SUBSECTION (2) OF
8	THIS SECTION ONLY IF THE COMMISSION:
9	(I) DETERMINES THAT THE STANDARDS AND CATEGORIES SET
10	FORTH IN SUBSECTION (2) OF THIS SECTION ARE NOT PROTECTIVE OF
11	PUBLIC HEALTH; AND
12	(II) IDENTIFIES:
13	(A) A DOCUMENTED INCIDENT OF MICROBIAL DISEASE THAT THE
14	COMMISSION DETERMINES HAS A REASONABLE POTENTIAL TO AFFECT
15	PUBLIC HEALTH AND FOR WHICH THE COMMISSION HAS IDENTIFIED AS
16	LIKELY ORIGINATING FROM RECLAIMED DOMESTIC WASTEWATER; OR
17	(B) A PEER-REVIEWED PUBLISHED ARTICLE THAT IDENTIFIES A
18	POTENTIAL PUBLIC HEALTH RISK POSED BY THE USE OF RECLAIMED
19	DOMESTIC WASTEWATER UNDER THE STANDARDS ESTABLISHED IN
20	SUBSECTION (2) OF THIS SECTION.
21	(6) FOLLOWING A PUBLIC STAKEHOLDERS PROCESS, THE WATER
22	QUALITY CONTROL DIVISION MAY DEVELOP POLICY, GUIDANCE, OR BEST
23	MANAGEMENT PRACTICES THAT ARE CONSISTENT WITH THIS SECTION, AS
24	THE DIVISION DEEMS NECESSARY TO IMPLEMENT THIS SECTION.
25	(7) IN ADDITION TO THE RELIEF AVAILABLE UNDER SECTION
26	25-8-205 (7), THE DIVISION MAY GRANT A USER OF RECLAIMED DOMESTIC
27	WASTEWATER A VARIANCE FROM THE WATER QUALITY STANDARDS SET

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1	FORTH IN SUBSECTION (2) OF THIS SECTION OR ESTABLISHED BY RULE BY
2	THE COMMISSION PURSUANT TO SUBSECTION (5) OF THIS SECTION IF THE
3	USER DEMONSTRATES TO THE DIVISION'S SATISFACTION THAT THE
4	PROPOSED USAGE OF RECLAIMED DOMESTIC WASTEWATER WILL
5	SUFFICIENTLY PROTECT PUBLIC HEALTH AND THE ENVIRONMENT.
6	(8) USE OF RECLAIMED DOMESTIC WASTEWATER IS ALLOWED ONLY
7	IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE DECREES,
8	CONTRACTS, AND WELL PERMITS APPLICABLE TO THE USE OF THE SOURCE
9	WATER RIGHTS OR SOURCE WATER AND ANY RETURN FLOWS THEREFROM.
10	SECTION 4. In Colorado Revised Statutes, 25-8-308, amend (1)
11	introductory portion and (1)(h) as follows:
12	25-8-308. Additional authority and duties of division -
13	penalties. (1) In addition to the authority specified elsewhere in this
14	article ARTICLE 8, the division has the power to:
15	(h) Implement a program, in accordance with SECTION 25-8-205.7
16	AND rules and orders of the commission, for the reuse of reclaimed
17	domestic wastewater for purposes other than drinking.
18	SECTION 5. Appropriation. For the 2018-19 state fiscal year,
19	\$14,399 is appropriated to the department of public health and
20	environment for use by the water quality control division. This
21	appropriation is from the general fund and is based on an assumption that
22	the division will require an additional 0.1 FTE. To implement this act, the
23	division may use this appropriation for public and private utilities sector
24	related to the clean water sectors.
25	SECTION 6. Act subject to petition - effective date. This act
26	takes effect at 12:01 a.m. on the day following the expiration of the
27	ninety-day period after final adjournment of the general assembly (August

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- 8, 2018, if adjournment sine die is on May 9, 2018); except that, if a referendum petition is filed pursuant to section 1 (3) of article V of the state constitution against this act or an item, section, or part of this act within such period, then the act, item, section, or part will not take effect unless approved by the people at the general election to be held in November 2018 and, in such case, will take effect on the date of the
- 7 official declaration of the vote thereon by the governor.

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