1	DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
2 3	Solid and Hazardous Waste Commission/Hazardous Materials and Waste Management Division
4	5 CCR 1003-7
5 6 7	BENEFICIAL USE OF WATER TREATMENT SLUDGE AND FEES APPLICABLE TO THE BENEFICIAL USES OF SLUDGES
8 9 10 11	<u>Repeal of the Regulations pertaining to the Beneficial Use of Water Treatment</u> Sludge and Fees Applicable to the Beneficial Uses of Sludges (5 CCR 1003-7)
12 13 14 15	1) 5 CCR 1003-7 (Beneficial Use of Water Treatment Sludge and Fees Applicable to the Beneficial Uses of Sludges) is being repealed in its entirety as follows:
16 17	1. GENERAL PROVISIONS
18 19	A. Purpose
20 21 22 23 24	The purposes of these regulations are to ensure that the quality of waste discharged on land for beneficial uses is reasonably consistent with the protection of the public health and to establish rules and regulations for the engineering, design and operation of water treatment sludge disposal sites and facilities which serve the purposes set forth in C.R.S. 1973, 30-20-109 and 25-1-107 (as amended). Water treatment sludge disposal sites and facilities for which a Certificate of Designation has been issued
24 25 26	are exempted from the provisions of these regulations.
27 28 29	These regulations also provide the regulatory framework to allow implementation of the sludge management program fee system pursuant to C.R.S. 1986, 30-20-110.5.
30 31	B. Definitions
32 33	As used in these regulations, unless the context otherwise requires:
34 35 36	(1) "APPLICATION SITE" means all contiguous areas of a user's property intended for sludge applications.
37 38	(2) "APPLY" means to place onto or into the soil till zone.
39 40 41	(3) "BENEFICIAL USE" means the use of the nutrients and/or moisture in the sludge to act as a soil conditioner or low grade fortilizer for the promotion of vegetative growth on the land.
42 43 44 45	(4) "BENEFICIAL USE CERTIFICATION" means the Department's written approval indicating the conformance of a proposed beneficial use of water treatment sludge with the criteria contained in this regulation.
45 46 47	(5) "BENEFICIAL USE PLAN" means the written application for Department authorization to land apply water treatment sludges.

48	(6)	"BIOSOLIDS" means the accumulated residual product resulting from a domestic wastewater
49	()	treatment works. Biosolids does not include grit or screenings from a wastewater treatment
50		works, grease, commercial or industrial sludges, or domestic or industrial septage. Beneficial use
51		of biosolids is regulated under the Colorado Biosolids Regulations.
52		
53	<u>(7)</u>	"BOARD" means the State Board of Health.
54	(,,)	
55	<u>(8)</u>	"CO-APPLICATION" means to application of both biosolids and water treatment sludges to the
56	(0)	same beneficial use site. Co-application of biosolids and water treatment sludges to the
57		requirements of the Colorado Biosolids Regulations.
58		requiremente or the colorado Diosonide Regulatione.
59	(0)	"DEPARTMENT" means the Colorado Department of Health.
60	(0)	DEFARTMENT modificatio Dopartment of Hoakin.
60 61	(10)	EEPTH IZEP" means any organic or increanic metarial that is added to the sail to supply
	(10)) "FERTILIZER" means any organic or inorganic material that is added to the soil to supply
62		elements essential to plant growth.
63	(4.4.)	
64	(11)) "MUNICIPALITY" means any regional commission, county, metropolitan district, water
65		consorvancy district, motropolitan sowago disposal district, sorvice authority, city and county, city,
66		town, Indian tribe or authorized Indian tribal organization, or any two or more of the above which
67		are acting jointly in connection with a sewage treatment facility.
68	(10)	
69	(12)) "PERSON" means an individual, corporation, partnership, association, state, or political
70		subdivision thereof, federal agency, state agency, municipality, or commission.
71		
72	(13)	- "PRODUCER" means a person operating a water treatment facility which generates water
73		treatment sludge. The producer is that person who files a Beneficial Use Plan and in whose name
74		any subsequent Beneficial Use Certification is issued. The producer is thereby responsible for
75		assuring conformance of a proposed beneficial use of water treatment sludge with the criteria
76		contained in this regulation.
77		
78	(14)	"ROOT CROPS AND LOW GROWING FRUITS AND VEGETABLES" means those crops, the
79		edible portion of which grow below, at, or within one foot of the soil surface.
80		
81	(15)	
82		
83	(16)) "WATER TREATMENT PLANT SLUDGE" or "WATER TREATMENT SLUDGE" means the
84		accumulated solids resulting from the processing of raw water in a treatment plant of a
85		municipality.
86		
87	C. Sev	erability
88		
89	Each pr	ovision of those regulations is severable and intended to be independently valid. Any
90	determi	nation that any provision of these regulations is invalid shall not operate to invalidate the
91	remaine	der of the regulations.
92		
93	D. Vari	anco
94		
95	The De	partment may grant a variance from any provision of these regulations in a particular case, where
96	it detern	nines that the public health benefits which will be created by compliance with the subject provision
97		pear a reasonable relationship to the costs required to achieve compliance, and that the granting
98		iance will be reasonably consistent with the protection of the public health.
99		
100	Any per	son who requests a variance from a provision of these regulations shall have the burden of
101	supplyir	ng the Department with that information which demonstrates that conditions exist which warrant
102		nting of a variance. A request for a variance may be filed simultaneously with the Letter of Intent,
-	- 3.54	
	Repeal of	5 CCR 1003-7. Beneficial Use of Water Treatment Sludge

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103	or at any other time provided good cause is shown for not having requested the variance at the time the
104	Letter of Intent was submitted. The Department shall grant or deny a variance request within 90 days of
105	receipt thereof. No person shall be considered to have obtained a variance until he has received a written
106	statement from the Department granting the variance. In any such written statement, the Department
107	shall identify the provision of these regulations from which a variance has been granted, and shall
108	prescribe any other requirements which the person receiving the variance must meet, in lieu of the
109	provision from which a variance has been granted. The Department shall prescribe such requirements as
110	are reasonably consistent with the protection of the public health.
111	
112	All variances granted by the Department in anyone month shall be reported to the Board of Health at its
113	next regular moeting.
114	
115	E. Enforcement
116	
117	The Department shall enforce these regulations pursuant to C.R.S. 1973, Section 25-1-114 and 30-20-
118	113, -114 as amended.
119	
120	F. References
120	
121	The attached statement of basis and purpose is incorporated by reference. With respect to material
122	
	incorporated herein by reference these regulations do not include future amendments to or editions of
124	such material. Copies of such material may be acquired by contacting the Director, Water Quality Control
125	Division, Colorado Department of Health, 4210 East 11th Avenue, Denver, Colorado 80220.
126	
127	G. Effective date
128	These conditions shall take affect on Fahrwary 40, 4000
129	Those regulations shall take offect on February 19, 1993.
130 131	2. ADMINISTRATION OF RENEFICIAL USE CERTIFICATIONS
132	
133	A Submission of Reneficial Lise Plans Prior to Application of Water Treatment Sludge
133 134	A. Submission of Beneficial Use Plans Prior to Application of Water Treatment Sludge
134	
134 135	No producor shall soll wator troatmont sludgo, distributo wator troatmont sludgo or supply wator troatmont
134 135 136	
134 135 136 137	No producer shall sell water treatment sludge, distribute water treatment sludge or supply water treatment sludge in any manner to any other person for use at an application site unless:
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134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152	 No producer chall cell water treatment cludge, distribute water treatment cludge or supply water treatment cludge in any manner to any other person for use at an application site unless. (1) The producer has submitted a complete Beneficial Use Plan by certified mail or by personal service to the Department, and a copy of the letter to the local health department authority, regarding that application; (2) the producer has obtained permission from the user to enter on the site to perform any monitoring and analysis identified in the Beneficial Use Plan; (3) the producer has made available a copy of these regulations to the user; (4) the Department has issued a Beneficial Use Certification. B. Content of Beneficial Use Plan The Beneficial Use Plan shall contain a legal description of the land to which water treatment sludge is to be applied; the number of pounds of water treatment sludge to be applied per acre; the types of crops to be applied per acre; the type of crops to be applied per acre; the type of crops to be applied per acre; the type of crops to be appl
134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153	No producor shall soll water treatment sludge, distribute water treatment sludge or supply water treatment sludge in any manner to any other person for use at an application site unless: (1) The producer has submitted a complete Beneficial Use Plan by certified mail or by personal service to the Department, and a copy of the letter to the local health department authority, regarding that application; (2) the producer has obtained permission from the user to enter on the site to perform any monitoring and analysis identified in the Beneficial Use Plan; (3) the producer has made available a copy of these regulations to the user; (1) the Department has issued a Beneficial Use Certification. B. Centent of Beneficial Use Plan The Beneficial Use Plan shall contain a legal decorription of the land to which water treatment sludge is to be applied; the number of pounds of water treatment sludge to be applied per acre; the types of creps to be grown on the land, and the number of acres of each crep; analysis of the water treatment sludge for
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134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155	 No producor chall coll water treatment cludge, distribute water treatment cludge or supply water treatment cludge in any manner to any other person for use at an application site unless. (1) The producer has cubmitted a complete Beneficial Use Plan by certified mail or by personal service to the Department, and a copy of the letter to the local health department authority, regarding that application; (2) the producer has obtained permission from the user to enter on the site to perform any monitoring and analysis identified in the Beneficial Use Plan; (3) the producer has made available a copy of these regulations to the user; (4) the Department has issued a Beneficial Use Certification. B. Content of Beneficial Use Plan The Beneficial Use Plan chall contain a logal description of the land to which water treatment sludge is to be applied; the number of pounds of water treatment sludge to be applied per acre; the types of crops to be grown on the land, and the number of acres of each crop; analysis of the water treatment sludge for the parameters identified in Table 1; documentation that the comments of the local health authority have been solicited; the name and address of the producer, the name and address of any contractor, and a
134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154	No producer shall sell water treatment sludge, distribute water treatment sludge or supply water treatment sludge in any manner to any other person for use at an application site unless: (1) The producer has submitted a complete Beneficial Use Plan by certified mail or by personal service to the Department, and a copy of the letter to the local health department authority, regarding that application; (2) the producer has obtained permission from the user to enter on the site to perform any monitoring and analysis identified in the Beneficial Use Plan; (3) the producer has made available a copy of these regulations to the user; (4) the Department has issued a Beneficial Use Certification. B. Content of Beneficial Use Plan The Beneficial Use Plan shall contain a logal description of the land to which water treatment sludge is to be applied; the number of pounds of water treatment sludge to be applied per acre; the types of creps to be grown on the land, and the number of acres of each crep; analysis of the vator treatment sludge for the parameters identified in Table 1; documentation that the comments of the local health authority have

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158	deemed by the Department as appropriate to evaluate potential human health and environmental impact
159	of the proposed use.
160	
161	C. Department Review
162	o. Department Noview
163	Following adoption of these regulations a producer shall be advised by the Department not more than
164	thirty days after receipt of a Beneficial Use Plan by the Department if, and in what respects, the Beneficial
164	Use Plan is incomplete.
166	
167	D. Beneficial Use Certification
167	
169	The Department shall either issue or dony the Beneficial Use Certification net more than thirty days after
170	the Department has deemed the Beneficial Use Plan to be complete.
170	the Department has deemed the Denencial Ose Fran to be complete.
172	3. BENEFICIAL USE OF WATER TREATMENT SLUDGE
173	- DERENVIAE VVE VI WATER REATIVENT VEVDVE
174	A. Beneficial use of co-applied water treatment sludge and biosolids shall comply with all applicable
175	requirements of the Colorado Biosolids Regulations, 1.9.0. Co-applied demostic sewage sludge and
176	water treatment plant sludge shall be either mixed prior to application or shall be incorporated
170	following application.
178	tollowing application.
178	R. No person shall apply water treatment plant sludge to land used to grow rest crops and low growing
180	B. No person shall apply water treatment plant sludge to land used to grow root crops and low growing fruits and vegetables if such crops are intended for direct human consumption.
180	Huite and vegetables if such crops are intended for direct numan consumption.
182	C. No person shall undertake the beneficial use of water treatment plant sludges which exceed 40
182	picocuries total alpha activity per gram of dry sludge.
184	procence total apria activity per gram of ally shadge.
185	4. WATER TREATMENT SLUDGE STORAGE
185	
187	A. Beneficial Use Certification Required. No person shall store water treatment sludge at an application
188	site unless a Beneficial Use Certification has been issued by the Department for such storage.
189	and unless a Denoncial dae Contineation has been ladued by the Department for such storage.
190	B. Exemptions
191	
192	The requirements of this section shall not apply to the following:
193	
194	(1) Process components of a water treatment facility and water treatment sludge storage
195	components located at a water treatment facility.
196	
197	(2) Components of a solid waste disposal site or facility which has received a Certificate of
198	Designation pursuant to the Solid Wastes Disposal Sites and Facilities Act, C.R.S. 30-20-100.5 §
199	, 1973 (as amondod).
200	
201	(3) Facilities which are intended for the offleading of water treatment sludges from vehicles
202	transporting water treatment sludges to an application site and subsequent leading of water
203	treatment sludges into application equipment, notwithstanding any incidental spillage or
203	placement on the land during transfer. Such facilities shall be bermed or otherwise protected or
205	managed so as to provent movement of spillage or runoff from the transfer area off of the
206	permitted site.
207	
208	C. Storage Requirements for Water Treatment Sludge
209	
210	Facilities for the storage of water treatment sludges located at an application site shall be bermed or
211	othorwise protected so as to provent movement of spillage or runoff from the storage facilities off of the

212 permitted site. Water treatment sludge shall be stored in a manner which will prevent windblown sludge 213 from escaping the storage facility.

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216

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222

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5. MONITORING AND REPORTING

217 A. Water Treatment Sludge Monitoring

219 Analysis of water treatment plant sludges shall be performed on composite samples for the 220 parameters set forth in Table 1. Analyses of water treatment plant sludges shall be performed either annually, or if disposal occurs on a less frequent basis, prior to disposal. 221

223 **B.** Additional Monitoring

225 If the Department has reasonable grounds to believe that a particular water treatment sludge may 226 contain any elements or compounds which could cause a hazard to the public health or to the 227 environment, the Department may require groundwater, soils or plant tissue monitoring and/or the 228 analysis of water treatment sludge for parameters other than those set forth in Table 1, or may 229 require that analyses be performed at a greater frequency than is otherwise required by this section.

- 230
- 231 232

TABLE 1 ANALYSES AND REPORTING UNITS1

Parameter	Units	Parameter	Units
Total Solids	Percent	Total Chromium	mg/kg
рH	Standard Units	Total Copper	mg/kg
Organic N	Percent	Total Iron	mg/kg
Total Ammonia-N	Percent	Total Load	mg/kg
Nitrate-N	Percent	Total Mercury	mg/kg
Total Phosphorus	Percent	Total Molybdonum	mg/kg
Total Potassium	Percent	Total Nickel	mg/kg
Total Aluminum	mg/kg ²	Total Solonium	mg/kg
Total Arsenic	mg/kg	Total Zinc	mg/kg
Total Cadmium	mg/kg	Total Alpha Activity	pCi/g³
1 All results expressed in dry weight basis for a composited sample.			

2 Milligrams per kilogram.

3 Picocuries per gram.

233 234

235

236	C. Reporting
237	
238	Annually, on or before February 19, each producer shall report to the Department the results of all
239	analyses the producer has performed during the preceding year to meet the requirements of this
240	section, the total amount of water treatment sludge applied during the preceding year and the location
241	at which any water treatment sludge was applied during the preceding year.
242	
243	6. FEES
244	
245	A. Establishment of Fees
246	
247	Pursuant to Section 30-20-110.5, C.R.S. (1986 supp.), the State Beard of Health shall establish, and
248	may revise as necessary, a schedule of non-refundable fees to cover the reasonable costs of
249	implementing a program for the beneficial use of sludge. For purposes of this section the term
250	"sludge" is defined to mean water treatment sludge which use is subject to the provisions of this
251	regulation and water treatment sludge and/or biosolids which use is subject to the provisions of the
252	Colorado Biosolids Regulations.
253	
254	The fee schedule shall be based on program cost projections prepared by the Department and
255	submitted in writing to the Board for review. The Board will conduct a public hearing on any proposed
256	change to the fee structure.
257	5
258	The reasonable costs of implementing and maintaining the program include, but may not be limited
259	to, the following:
260	
261	- Personal Services - the cost of personnel assigned to implement and maintain the program,
262	i.e., salarios, bonofits, etc.
263	
264	 Operating - the costs associated with travel, laboratory analysis, and capital outlay.
265	
266	- Program Evaluation - the costs associated with assessment of potential beneficial sludge use
267	technology.
268	toormology.
269	B. Assessment of Fees and Billing
270	
271	(1) A non-refundable fee of one dollar and twenty-four cents per dry ten of sludge shall be assessed
272	the producers whose sludge is used for beneficial purposes as defined in Section 1.B of these
273	regulations.
274	Togulatione.
275	The Department will notify producers when adjustments are made to the fee schedule and the
276	effective date for implementing the changes.
277	onocaro dato for implementing tro onangoor
278	(2) Producers shall receive a notice from the Department of the annual fee schedule. This notice
279	chall accompany the Department's Beneficial Use Certification or Notice of Authorization for the
280	Use and Distribution of Biosolide.
280	
281	(3) Payment may be prepaid based on the annual projected sludge tonnage or paid based on the
282	actual amount of dry sludgo appliod.
285	astual amount of any bladge applied.
284 285	a) Prepayment of the annual projected payment must be made within the first quarter (January-
285	A) Frepayment of the calendar year. Propayment must be made for an entire year.
280 287	marony or the balondar your. Propaymont much be made for all online your.
287	Adjustment will be made to the following year's annual projected payment to reflect any
288 289	everpayment or underpayment of the actual amount due. Adjustments will be based on the
203	everpayment of anderpayment of the actual amount ado. Aujaotmente will be baced of the

290		actual amount of sludge applied as reported in the annual reports multiplied by the fee in
291		place during the period the sludge is to be applied, or
292		
293		b) Payments based on the actual amount of sludge (dryweight basis) applied in the previous
294		reporting period covered in the annual report must be remitted on or before May 19.
295		
296	(4)	-Payment by check shall be made out to the Colorado Department of Health, Sludge Management
297	(-)	Program. All such payments received shall be credited to the Sludge Management Program as
298		provided for in C.R.S. 30-20-110.5 (3).
299		
300	C Enf	ercement of Fee Payments
301	0. Liii	
302	<u>(1)</u>	Failure or refusal to make payment for application of domestic sewage sludge to land for
303	(1)	beneficial purposes within the time frame specified in Section 6.B of these regulations shall result
304		in suspension and/or revocation of the Beneficial Use Certification or Notice of Authorization for
305		the Use and Distribution of Biosolids.
306		
307	(2)	Action to suspend or revoke the Beneficial Use Certification or Notice of Authorization for the Use
308	(-)	and Distribution of Biosolids shall be taken by the Department if payment is not received following
309		written notice sent by certified mail pursuant to Section 6.C.3. In the event of suspension or
310		revocation of the Beneficial Use Certification or Notice of Authorization for the Use and
310		Distribution of Biosolids, subsequent sludge application shall be subject to all applicable
312		requirements of the State Solid Wastes Disposal Sites and Facilities Act until such time as
313		payment is received and the Beneficial Use Certification or Netice of Authorization for the Use
313		and Distribution of Biosolids is reinstated.
315		
315	(2)	Formal notification of the suspension or revocation shall be sont to the producer by certified mail.
317	(0)	The notice shall state:
318		
319		a) the effective date of the suspension or revocation;
320		
320		b) the basis for evenencies or reveastion.
321		b) the basis for suspension or revocation;
323		a) the consequences of applying cludge without the required Deposition Lies Cartification or
323 324		c) the consequences of applying sludge without the required Beneficial Use Certification or Notice of Authorization for the Use and Distribution of Biosolids.
324 325		
		and of Antione on Free
326	⊎. Ар	ceals of Actions on Fees
327	(4)	All appeal reviews will be conducted by the Deard in appendence with Castier 24, 4,405 of the
328	(+)	All appeal reviews will be conducted by the Beard in accordance with Section 24-4-105 of the State Administrative Procedures Act.
329		
330		Depend action on the enneed is considered final exempty action
331	(2)	Board action on the appeal is considered final agency action.

1	DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
2	
3	Solid and Hazardous Waste Commission
4	Hazardous Materials and Waste Management Division
5 6	5 CCR 1003-7
7 8 9 10	STATEMENT OF BASIS AND PURPOSE AND SPECIFIC STATUTORY AUTHORITY FOR
11 12	Repeal of 5 CCR 1003-7 (Beneficial Use of Water Treatment Sludge and Fees Applicable to the Beneficial Uses of Sludges)
13 14	Basis and Purpose
15 16	This amendment to repeal 5 CCR 1003-7 is made pursuant to the authority granted to the Solid and Hazardous Waste Commission in § 30-20-109, C.R.S. and § 30-20-109(4)(a), C.R.S.
17 18 19 20 21 22 23 24 25 26	The Department has undertaken an effort to evaluate existing regulations and repeal those that have been determined as no longer necessary. These regulations were identified during the Department's regulatory review process as being outdated and unnecessary regulations that could be repealed. The beneficial use and disposal of water treatment plant residuals is regulated by the Hazardous Materials and Waste Management Division (HMWMD) pursuant to its authority under the Solid Waste Disposal Sites and Facilities Act and the Colorado Solid Waste Regulations (6 CCR 1007-2). Accordingly, the Division is requesting that the 5 CCR 1003-7 regulations be repealed.