



ONSITE WASTEWATER TREATMENT SYSTEM (OWTS): APPLICATION GUIDE FOR

This is only a guide and does not supersede the Saguache County On-site Wastewater Treatment Systems Regulations

NO EXCAVATION FOR THE INSTALLATION OF AN ONSITE WASTEWATER TREATMENT SYSTEM SHALL BE STARTED WITHOUT THE PERMITS ISSUED FROM THE LAND USE DEPARTMENT.

STEPS FOR OBTAINING A SEPTIC PERMIT:

1. **SITE AND SOIL EVALUATION:** A site and soil evaluation shall be conducted by a professional engineer licensed in the State of Colorado or a qualified soils technician approved by the Saguache County Public Health Department or a competent technician in order to determine the suitability of a location to support an OWTS, and to provide the designer with a sound basis to select the most appropriate OWTS design for the location and application. Every site and soil evaluation shall consist of preliminary investigation, reconnaissance visit, detailed soil investigation, and report and site plan. (See page 4 for details on what is required as part of the Site and Soil Evaluation.)
2. **DESIGN OF THE PROPOSED SYSTEM:** The proposed system is designed using the findings of the site and soil evaluation. The findings of the site and soil evaluation may determine that an engineered design is required, in which case a professional engineer licensed in the State of Colorado shall complete the design of the system using the findings of the site and soil evaluation. (See page 5 for details on what is required as part of the Site and Soil Evaluation.)
3. **COMPLETE THE APPLICATION:** Submit the completed application to the Land Use Department along with the following items (incomplete applications will **NOT** be processed)
 - **FEES:** OWTS fees are submitted with the application.
 - **NEW OWTS PERMIT:** The permit fee for a new OWTS system is \$250.00 and includes the application and design review, one site inspection and one final inspection (prior to backfill of the project)
 - **REPAIR OR ALTERATION PERMIT:** The fee for a repair to or alteration (Enlargement) of an existing system is \$150.00 and includes the application and design review, one site inspection and one final inspection (prior to backfill of the project).
 - **SITE AND SOIL EVALUATION REPORT:** (see page 4 for details of what is required)
 - **DESIGN DOCUMENT:** (See page 5 for details of what is required)

ONCE THE COMPLETED APPLICATION HAS BEEN SUBMITTED:

1. **STAFF REVIEW OF APPLICATION:** Land Use Department staff will review the information provided in the application, site and soil evaluations, assumptions and calculations, and design to determine if the proposed OWTS is compliant with the Saguache County OWTS Regulations. Additionally, staff will review the proposal with regard to compliance with the Saguache County Land Use and Development Code and other applicable federal, state and county regulations.
 - The owner, or owners' representative, will be contacted after the review is complete and any additional information that may be needed before a permit can be issued will be requested.
2. **STAFF SITE INSPECTION:** Land Use Department staff may conduct a site inspection of the property in order to verify that the site conditions and design submittal concur with the intent of Saguache County OWTS Regulations and to review the suitability of the site and the proposed location of the structure(s) and OWTS considering the land use in the area, the proposed use on the site and the size of the property. It is important that the applicant, or applicant's representative, stake and label each pertinent feature, including but not limited to the lot corners, proposed structures, driveways/parking areas, proposed soil treatment area, septic tank location, and well location.
3. **ISSUANCE OF PERMIT:** Once review of the completed application, along with any additional requested items, and the finding of the site inspection concur that the proposed OWTS will comply with the Saguache County OWTS Regulations and the Saguache County Land Use and Development Code, the OWTS permit for construction will be made available for issuance. It is the goal that the application review, site inspection and notification of approval will be within 7 working days after receiving a complete application but due to access, weather seasons or unforeseen circumstances that is not always possible.

Once the permit application has been approved, a Licensed Systems Contractor shall install the approved system. Alternatively, a property owner wishing to install their own system may install the system according to the system design documents.

FINAL INSPECTION: When the installation of the OWTS has been completed, but before the system is placed into service and before any component of the system has been covered, the applicant or applicants' agent shall notify the Land Use Department and engineer, if engineer-designed, that the work has been sufficiently completed to allow inspection(s) to determine if all work has been performed in accordance with the permit requirements. Staff or the engineer of record will conduct the inspection within three (3) business days after receipt of the notice.

AS-BUILT DRAWING: The as-built drawing is a scale drawing showing the OWTS as installed, including its location from known and findable points, dimensions, depths, sizes, and other information relative to locating and maintaining the system components. When an engineered stamped design is used, the engineer shall provide the as-built drawing along with an approval letter to the department. When a system is designed by an engineer, but not stamped, or by a Competent Technician authorized by the State, Saguache County staff may complete the as-built drawing.

CERTIFICATION LETTER: When an engineer design is used, the engineer shall certify the construction of the system as designed, and submit an approval letter to the department.

THE FOLLOWING INFORMATION IS NEEDED FOR THE SUBMITTAL OF ALL OWTS APPLICATIONS:

- **Report from Site and Soils Evaluation And Site Plan.** The report from the site and soil evaluation in accordance with section 43.5: Report and Site Plan of the Saguache County OWTS Regulations (See page 4 for description).
- **Vicinity Map** General area map showing the location of the proposal on a typical U.S Geological Survey map, U.S Forest Service map.
- **System Design.** The system design document shall contain all plan details necessary for permitting, installation and maintenance and shall include a brief description of the facility and its proposed use, basis and calculations of design flow, and influent strength in accordance with Section 4.35-G: Design Document of Saguache County OWTS Regulations (see page 5 for description).
- A copy of the recorded **Property Deed** is required for Proof of ownership. This may be obtained from the Clerk's Office. The Clerk's Office can be reached by phone at 719-655-2512.
- **Letter of Consent.** If applicable, a letter from the property owner acknowledging a person other than the owner may apply for permits.
- Copy of **Well Permit**, if applicable.
- \$250.00 Application Fee.

COMMONLY ASKED SETBACK REQUIREMENTS: (Reg 43.7-Table 7-1)

Well or Spring to a Septic tank	50 feet
Well or spring to a soil treatment area (field)	100 feet
Potable water line to septic tank	10 Feet
Potable water line to a soil treatment area (field)	100 Feet
Water cistern to a septic tank	25 Feet
Water cistern to a soil treatment area (Field)	100 Feet
Dwelling Occupied building to a septic tank	5 Feet
Structure to a soil treatment area (Field)	20 Feet
Property line to a septic tank	10 Feet
Property line to a soil treatment area (Field)	10 Feet
Irrigation ditch to a septic tank	50 Feet
Irrigation ditch to soil treatment area (Field)	100 Feet
Lake, stream, water course, wetland to septic tank	50 Feet
Lake, stream, water course, wetland to soil treatment area (Field)	100 Feet

REPORT AND SITE PLAN REQUIREMENTS: (Reg 43.5)

The following shall be submitted with the application:

The report shall describe the results of the preliminary investigation, reconnaissance, and detailed evaluations. The report may be in text and/or tabular form and shall include a drawing locating features relative to the proposed OWTS location and test locations. The report shall either be included as part of the OWTS design document or shall be attached to the design document. The report shall include, but is not limited to:

1. The name, address, telephone number, e-mail address, credentials, and qualifications of the individuals conducting the site evaluation,
2. Preliminary and detailed evaluations, providing information from the surface site characteristics assessment and soils evaluations.
3. A graphic soil log, to scale, indicating depth of drill hole or excavation, soil description and classification, depth to the ground water encountered during drilling or excavation, type of equipment used to drill the profile hole or excavate the soil profile test pit, date of soils investigation, name of investigator and company name.
4. Setback distances to features listed in Table 7-1, Minimal Horizontal distances in feet between of an On-Site Wastewater Treatment System Installed After November 15, 1973 and Water, Physical and Health Impact Features.
5. A scale drawing that provides the complete property boundary lines. Minimum drawing size shall be 8.5 -inches by 11-inches. If the property is too large to adequately indicate and label the

profile test pits and percolation test holes shall be submitted. The drawing shall include the following features within 400 feet: dimensions of the subject parcel of land; existing and proposed buildings, including agricultural, on the subject parcel of land; proposed location of the OWTS and components; boundaries with all roads; all adjacent parcels of land; uses of adjacent parcels of land; existing and proposed water and sewer systems (if identifiable) on subject parcel and adjacent parcels Of land; all surface water features, including but not limited to streams, lakes, wetland areas and irrigation features.

a. Drawings shall indicate dimensions, have a north arrow and graphic scale include the following:

I.Horizontal and vertical reference points of the proposed soil treatment area; soil observations; percolation testing results and pertinent distances from the proposed OWTS to all required setbacks, lot improvements, easements; ordinary high-water mark of a pond, creek, stream, lake, wetland or other surface waters, and detention or retention ponds; and property lines; II. Contours or slope direction and percent slope;

III.The location of any visible or known unsuitable, disturbed or compacted soils;

IV. The estimated depth of periodically saturated soils and bedrock, or flood elevation, if applicable; and

V.The proposed elevation of the infiltrative surface of the soil treatment area, from an established datum (either ground surface or a benchmark).

6. Any anticipated construction-related issues;
7. An assessment, by the individual conducting the site evaluation, of how known or reasonable foreseeable land use changes are expected to affect the system performance, including, but not limited to, changes are expected to affect the system performance, including, but not limited to, changes in drainage pattern, increased impervious surfaces and proximity of new water supply wells; and
8. A narrative explaining difficulty encountered during the site evaluation, including but not limited to identifying and interpreting soil and landform features and how the difficulties were resolved.

SYSTEM DESIGN DOCUMENT SUBMITTAL REQUIREMENTS: (Reg 43.5)

The following shall be submitted with the application:

1. The design document shall include a brief description of the facility and its proposed use, basis and calculations of design flow, and influent strength.
2. The design document shall contain all plan details necessary for permitting, installation and maintenance, including the following:
 - a. Assumptions and calculations for each component;
 - b. A scale drawing showing location of each OWTS component and distances to water, physical and health impact features requiring setbacks.
 - c. Layout of soil treatment area, dimensions of trenches or beds, distribution method and equipment, distribution boxes, drop boxes, valves, or other components used;
 - d. Depth of infiltrative surface treatment area, depth of the septic tank, depth of other components;
 - e. Specifications of each component. Specifications for septic tanks or other buried components shall include loads due to burial depth, additional, additional weight of pressure loads, and highest elevation of ground water. Resistance to local water composition such as high sulfates shall be included in the specification if such conditions exist at the site;
 - f. References to design manuals or other technical materials used;
 - g. Installation procedures;
 - h. Operation and maintenance manuals or instruction; and
 - i. Other information that may be useful such as photos and cross-section drawings.

DESIGNED BY REGISTERED PROFESSIONAL ENGINEER When a design by a professional engineer licensed in The State of Colorado is required, the site design shall also include:

1. **INSPECTION SCHEDULE:** An inspection schedule including written verification of the supervision of the installation by a professional engineer licensed in the State of Colorado.
2. **ENGINEER'S STAMP OR SEAL:** The stamp or seal and signature on the plans by a professional licensed in the State of Colorado, certifying the design.

THINGS TO KNOW AND COMMONLY ASKED QUESTIONS

How long will it take to get my septic permit?

Once we have a completed application, and when your County Septic Inspection by the County Inspector has been completed, with mileage paid. Once we get the paperwork completed from the County septic inspector it should take no more than 1 week.

How can I determine if my property is within a 100-year floodplain?

We have flood maps and can help to determine if your property is within the 100-year floodplain. Come into our office or give us a call for assistance.

Who do I hire to conduct my Site and Soil Evaluation?

The site and soil evaluation can be conducted by a professional engineer licensed in the State of Colorado or a qualified soils technician approved by the Environmental Health Office.

Where can I find a copy of the OWTS Regulations to read them for myself?

The Saguache County OWTS Regulations are available for download on our website at <http://saguachecounty.colorado.gov>, you can call our department and request that a copy be sent by email to you, or you can request a paper copy.

What if my parcel is less than one-acre minimum?

The Saguache County OWTS Regulations require that a parcel be a minimum of one acre in size in order to receive a permit. The application will be given a formal denial after review. An applicant may then apply for an appeal or variance. Contact the Land Use Department for more information.

How long is an OWTS permit valid for?

An OWTS permit is valid for one year from the date of issuance (the day you, or representative, signs and receives the permit). This means that one year from the date of issuance, construction of the system needs to be completed and final approval by the Land Use Department given. A permit may not be extended or renewed.

Can I have a composting toilet?

Composting, incinerating, and chemical toilets require a public hearing before the Board of Public Health for a variance. See Section 4.3.4-0 of the Saguache County OWTS Regulations for more information on variances.

Can I have a "graywater" system?

The State of Colorado, Water Quality Control Divisions definition of "graywater" means "that portion of wastewater that, before being treated or combined with other wastewater, is collected from fixtures. Within residential, commercial, or industrial buildings or institutional facilities. Sources of graywater may include discharges from bathroom and laundry room sinks, bathtubs, showers, laundry machines, and other sources authorized by rule. Graywater does not include the wastewater from toilets, urinals, kitchen sinks, dishwashers, or non-laundry utility sinks." In the future, graywater re-use regulations may

be developed that would allow for separated graywater treatment options. For now, all wastewater whether gray or black is treated the same and a full OWTS system is required.

Regulation 43: and Soil Evaluation Completeness Checklist

Section	Description			
	Written Report to Include:			
43.5 B	PRELIMINARY INVESTIGATION	YES		NLA
43.5 B	Property Information:			
	Address			
	Legal Description			
	Existing Structures			
	Location of Existing or Proposed Wells			
43.5 B2	Saguache County Public Health			
43.5 B3	Published Site Information			
	Topography Information			
	Natural Resources Conservation (NRCS) Soil Data			
<u>43.5 84</u>	Location of physical features, on and off property that will require setbacks, per table 7-1			
<u>43.5 B5</u>	Preliminary Soil Treatment Area (STA) size estimate based on information on existing or planned facility and local regulation.			
43.5 B7	Additional Information			
	Survey			
	Easements			
	Floodplain Maps			
	Geology and basin maps			
	Aerial Photographs			
	Climate information			
	Delineated wetland maps			

43.5 c	RECONNAISSANCE (SITE) VISIT EVALUATION	YES		
	Landscape Position			
	Topography			
	Vegetation			
	Natural and cultural features			
	Current and historic land use			
<u>43.5 D</u>	DETAILED SOIL INVESTIGATION, TO INCLUDE ONE OF THE FOLLOWING (CHECK ONE)	<u>YES</u>		

	1. Visual and tactile evaluation of two or more soil profile Test Pit Excavations.			
	2. Percolation			
	3. Percolation tests plus one or more Soil Profile holes (allowed until 7-1-16 only)			
<u>43.5 D</u>	IF CHECKED NO. 1(43.5D)-EVALUATE TWO OR MORE SOIL PROFILE TEST PITS TO DETERMINE	<u>YES</u>		
	Soil Types			
	Soil Structure			
	Restrictive layer			
	Evidence of seasonal high ground water			
	Best depth of STA with infiltrative area			
43.5.5	VISUAL AND TACTILE EVALUATION OF SOIL REQUIREMENTS	YES	NO	
	Evaluate soils under adequate light conditions			
	Location at or immediately adjacent to STA, but preferably not under the bed or trench.			
	Method must allow observation of different soil horizons that constitute the soil profile.			
	MINIMUM DEPTH OF SOIL PROFILE TEST PIT (CHECK ONE)	<u>YES</u>		
	To periodically saturated layer			

	To bedrock			
	Four feet below proposed depth of STA infiltrative surface, whichever is greater			
	LTAR determined based on soil type at infiltrative surface, or more restrictive type within treatment depth			
	Previous soil data, verified by evaluation of Soils Profile Test Pit Excavation			
	IF CHECKED NO.2(43.5D)- EVALUATE ONE OR MORE soils Profile Test Pits to Determine:	<u>YES</u>		
	Requirements in No. 1, plus			
	Utilize soil test pit(s) to determine:			
	Whether soils are suitable to warrant percolation tests			
	If soil is suitable to determine depths of percolation tests; then conduct percolation test in accordance with section 43.504E			
	IF CHECKED NO. 3(43.5D)-(APPLICABLE UNTIL 7-1-16)	YES		
	Conduct percolation test in accordance with section 43.5.4E			

Regulation 43: Report Site Plan & Design Document

Section	Description			
<u>43.5 F.I.</u>	Written Report to Include	Yes		
	Results of preliminary investigation			
	Results of site visit			
	Dates of preliminary investigation and site visit			
	Results of detailed evaluations			
	Scale drawing locating features and test locations			
	Name, address, phone number, email address and credentials and qualifications of site evaluator			
	Preliminary and detailed evaluations, with information from site characteristics assessment and soils investigation			
<u>43.5 F I-d</u>	Graphic Soil Log to Scale Indicating			
	Depth of soil profile test pit on submitted drawings			
	Soil Description and classification on submitted			
	Depth of ground water, if applicable			
	Date of Soils Investigation			
	<u>Name of Investigator and company name</u>			
	<u>Table 7-1- Minimum horizontal distances between OWTS components and features</u>			
	<u>Table 7-2-OWTS design and treatment requirements-distance from STA</u>			
<u>43.5-F1-g</u>	Scale Drawing to include:			
	Complete boundary property lines			
	Minimum size 11 x 17 inches			

	<u>If property is too large, show a detail of the portion of the site with soil profile test pits and percolation test holes</u>			
	Dimensions			
	North Arrow			
	Graphic Scale			
	Proposed soil treatment area			

	Soil Profile holes or soil profile pit locations			
	Percolation Holes, if applicable			
	<u>Pertinent distances from proposed OWTS to all features</u>			
	<u>Easement</u>			
	<u>Ordinary high water mark of all relevant water features (e.g pond. creek etc.)</u>			
	Contours or slope directions and percent slope			
	<u>Locations of any visible or known unsuitable. disturbed or compacted soils</u>			
	<u>The estimated depth of periodically saturated soils and bedrock or flood elevation if applicable</u>			
	<u>Proposed elevation of the infiltrative surface of the soil treatment are from established datum</u>			
<u>43.5-H</u>	As-Built Drawings:	YES	NO	
	Scale drawing showing the OWTS as installed			
	Including its location from known and findable points			
	<u>Dimensions</u>			
	Depths			
	<u>Sizes</u>			
	<u>Manufactures names and models</u>			
	<u>Information relative to locating and maintaining the OWTS components</u>			

43.5-G	Design Document To Include:	YES		
	<u>Facility description and proposed use</u>			
	Basis and calculations of design flow and wastewater strength			
<u>43.5.3</u>	All Plan Details Necessary for Permitting and installation:	YES		
	Assumptions and calculations for each component			
	<u>Scale drawing showing location of each OWTS component and distances to features.</u>			
43.5.3-c	Layout of:	<u>YES</u>		
	Soil Treatment Area			
	Dimensions of trenches and beds			
	Distribution method and equipment			
	Distribution boxes			
	Valves			
	Other Components used			
43.5.3-d	Depths of:			
	Infiltrative Surface			
	Septic Tank			
	Other Component Used			

	Specifications of Each Components:			
<u>43.5.3-1</u>	Specifications for Septic Tanks or Other Buried Components must Include:	<u>YES</u>		
	Loads due to burial depth			

IMPORTANT INFORMATION FOR PROPERTY OWNER

Before the Saguache County Land Use Office will accept payment for a septic application, all supporting documents (soil test, engineered design, and application) must be submitted at the same time.

WHEN SCHEDULING AN INSPECTION, WE NEED **AT LEAST A 48 HOUR NOTICE!** **PROPERTY OWNER AND APPLICANT SIGNATURE IS REQUIRED ON BACK OF THIS APPLICATION.** A CERTIFIED ENGINEER MUST DESIGN ANY SEWAGE DISPOSAL SYSTEM THAT HAS A FAILED STANDARD STATE PERCOLATION TEST.

PLEASE READ THIS BEFORE SIGNING!!

A fee of \$250.00 plus mileage shall be required of applicants for a new individual sewage disposal system payable before work on the system starts. A fee of \$150.00 will be charged for alteration, repair, or replacement of systems which have been in operation two (2) years or more, in addition permit approval and inspection shall be required. Violation of this procedure will constitute a punishable offense as defined in Regulations Applying to Individual Sewage Disposal System, Section 3.5.

The State of Colorado requires that all dwellings within the State be provided with adequate sewage disposal either through a centralized sewer system or through a County approved and permitted Independent Sewage Disposal System. Failure to install and maintain these facilities is punishable by law.

Permission is hereby granted to the owner or his agent to perform the work indicated above, in accordance with the Saguache County Individual Sewage Disposal System Regulations. Permits shall expire upon completion of the sewage disposal system for which the permit is written or at the end of twelve months from date of issue, unless work is in progress or unless revoked for non-compliance. Plans and specifications for this proposed sewage disposal system, when reviewed and ATTACHED to this permit will have been considered satisfactory.

TO OWNER: you must give the Saguache County Land Use Office AT LEAST 48 HOURS notice prior to the soil test or final inspection. Leave entire sewage disposal system uncovered until final inspection with the Saguache County Septic Inspector can be scheduled and approved. A CERTIFIED ENGINEER MUST DESIGN ANY SEWAGE DISPOSAL SYSTEM THAT HAS FAILED A STANDARD STATE SOIL ANALYSIS TEST!! FAILURE TO DO THIS WILL RESULT IN A VIOLATION AND WILL NOT BE CONSIDERED A COUNTY APPROVED SEPTIC SYSTEM.

The septic inspection officer shall assume no responsibility in case of failure or inadequacy of sewage disposal system beyond consulting in good faith with the property owner or representative.

Malfunction, should they occur, may be due to improper maintenance and usage, high groundwater table, soil compaction and another factor. These regulations are intended to reduce these types of problems.

SPECIAL NOTICE: Effective January 1, 1986, you must have plumbing permits and inspections on all buildings within the State, including Mobile Homes. Please contact Andy Medina at 303-869-3469 for more information. If you have any questions regarding this application, feel free to call Saguache County Land Use Office at (719)655-2321.

Permit Number _____
Date Approved _____
Parcel Number _____
Received Date _____

Saguache County Land Use Department
PO Box 326 - Saguache, CO 81149
(719) 655-2321 Fax (719) 655-2635
Individual Sewage Disposal System Application Permit

Property Owner _____ Phone _____

Mailing Address _____

City _____ State _____ Zip _____

Installer _____ Phone _____

Address _____

City _____ State _____ Zip _____

Property Address _____

Legal Description:

Quarter Section _____ Section _____ Township _____ Range _____

Number of Acres _____

OR

Subdivision _____ Lot _____ Block _____

ATTATCH A PLOT PLAN SHOWING DITCHES, LAKES, RIVERS, WELLS, BUILDINGS, INSTALLED SEWAGE SYSTEM ETC.

Water Source: Private Well (____), Community Well (____), Spring, Stream, or Creek (____)

Permit Number _____ attach copy of permit to application

Permit is for: New Installation (____), Modification (____), Repair (____)

Waste Type: Dwelling (____), non-Domestic (____), Commercial/ Institutional (____)

System Type: Standard System (____), Engineer-designed System (____),
Vault, _____ (MOFFAT 420 AREA ONLY)

Is this facility within the boundaries of a city or sanitation district? _____. If yes, have negotiations been attempted with owner to connect?

If yes please explain _____

DWELLING SPECIFICS:

Total of Existing Structures on property _____

Total of existing residences on property _____

Number of Bedrooms _____ Number of People to be served _____

Does the Proposed building have the following?

Bathroom _____ If Yes, how many? _____ Kitchen _____ Garbage Grinder _____

Automatic Washer _____ Electric Dish Washer _____

Return to: Saguache County Land Use Department

PO Box 326

Saguache, CO 81149

Phone (719)655-2321 FAX. (719) 655-2635

By signing below certifies I have read and understand the above and agree to the conditions as stated above.

Applicant needs to be aware that by signing this application you are giving the Saguache County Land Use office staff permission to access your property for purposes relating to this application.

Property Owner Signature _____ Date _____

Applicant Signature _____ Date _____

Received by _____ Date _____

OFFICE USED ONLY

FEE \$ _____ Perc Date _____/_____/_____ Final Date _____/_____/_____

Inspected _____ Mileage Paid _____/_____/_____

**SAGUACHE COUNTY BOARD OF COMMISSIONERS ACTING AS THE SAGUACHE COUNTY BOARD OF HEALTH
SAGUACHE COUNTY ON-SITE WASTEWATER TREATMENT SYSTEM REGULATIONS**

WHEREAS, the Saguache County Board of Commissioners has designated itself as the Saguache County Board of Health "Board" pursuant to CRS 25-1-508, and

WHEREAS, on May 13, 2013, the Colorado Water Quality Control Commission adopted On-Site Wastewater Treatment System Regulations #43 (5CCR 1002-43) which required the Board of Health for Saguache County to adopt new regulations, and

WHEREAS, the Colorado Department of Public Health and Environment's Water Quality Control Division made certain amendments to Regulation #43 effective April 30, 2018, and

WHEREAS, Saguache County Adopted the On-site Wastewater Treatment Systems pursuant to the Colorado Department of Public Health and Environment, Water Quality Control Commission Regulation #43 was adopted on July 15, 2014, and

WHEREAS, the Resolution adopting the On-site Wastewater Treatment Systems pursuant to the Colorado Department of Public Health and Environment, Water Quality Control Commission Regulation #43 was revoked on December 18, 2018, and

WHEREAS, the Colorado Revised Statutes 25-10-104 Regulation of On-site Wastewater Treatment Systems – state and local rules allow for adoption of the rules by resolution, and

WHEREAS, said amendments were made available to the public for review and comments by reference on the Saguache County website and at the Saguache County Land Use office and notice of public hearing was published on the Saguache County website and the Saguache Crescent, and

WHEREAS, a public hearing was held before the Saguache County Board of Commissioners on December 18, 2018, and there were no opposition to said amendments.

NOW, THEREFORE BE IT RESOLVED AS FOLLOWS:


That Saguache County hereby adopts the On-Site Wastewater Treatment System Regulation #43 as amended, as set forth in the Attached Exhibit A.

Vote – Commissioner Jason Anderson, Commissioner Ken Anderson and Commissioner Tim Lovato all in favor.

DONE AND APPROVED this 18th day of December, 2018.



Commissioner



Commissioner



Commissioner



ATTEST:



Trish Gilbert, Clerk of the Board Deputy

SAGUACHE COUNTY

ON-SITE WASTEWATER TREATMENT SYSTEM REGULATION

1.1 Title and Authority

These requirements will be known as the "Saguache County On-site Wastewater Treatment Systems Regulation"

These requirements have been adopted by the Saguache County Commissioners, acting as a Board of Health pursuant to and under authority contained in the On-site Wastewater Treatment System Act, 25-10-101, et seq. C.R.S. and has designated the Saguache County Land Use Office to implement these regulations on behalf of the Board of Health.

2.1 Scope and Purpose

A. Declaration

1. This regulation applies to On-site Wastewater Treatment Systems (OWTS) as defined in section 25-10-103(12), C.R.S.

B. Purpose

1. The purpose of these regulations is to establish the minimum standards for the location, design, construction, performance, installation, alteration and use of OWTS with a design capacity less than or equal to 2,000 gallons per day within Saguache County.

C. Jurisdiction

1. These regulations apply to all OWTS in the unincorporated areas of the county and over all municipal corporations within the territorial limits of Saguache County but not over the territory of any municipal corporation that maintains its own public health agency

D. Prohibition of OWTS Where Public Sewer Service is Available and Feasible

1. An OWTS permit must not be issued to any person when the subject property is located within a municipality or special district that provides public sewer service, except where such sewer service to the property is not feasible in the determination of the municipality or special district, or the permit is otherwise authorized by the municipality or special district. [43.4(B)(11)]

E. Severability

1. Should any section, clause, or provision of these Regulations be declared by a court of competent jurisdiction to be invalid, such decision will not affect the validity of these Regulations as a whole, or any part thereof other than the part declared to be invalid.

3.1 Incorporation of Regulation 43

A. Included By Reference

1. The requirements of the Colorado Water Quality Control Commission's "On-site Wastewater Treatment System Regulation, Regulation 43, 5 CCR 1002-43, Effective date, April 30, 2018", are made a part of these regulations and will apply except where identified as an option of the local public health agency or where these regulations are more stringent than Regulation 43, 5 CCR 1002-43, and included in these regulations. All aspects of an On-site Wastewater Treatment System including, but not limited to, permits, design, performance, location, construction, alteration, inspection, maintenance and use must be as provided in Regulation 43 and any additional requirements contained in these regulations.

2. Allowable local options identified in Regulation 43 and the designated decisions for the regulations are identified in the attached "Appendix A to OWTS Regulations for Saguache County Appendix A is made a part of these Regulations.

B. Excluded

1. Reductions in soil treatment area size or separation distances, and wide beds with higher level treatment units are not allowed under these Regulations. All designs must be based on TL-1 parameters as defined in Regulation 43. Area or separation distance reductions and wider beds for higher level treatment can only be allowed in the future if these Regulations are amended to include a program of oversight for inspection and maintenance of higher-level treatment units, and this amendment is accepted by the Division.

4.1 Permits and Fees

A. Permits [43.4(B)]

1. Prior to installing, altering, expanding or repairing an OWTS, the applicant must obtain a permit from Saguache County Land Use.
2. The permit application must include information identified in section 43.4(B)(3) of Regulation 43.
3. An OWTS permit expires one (1) year after the date of issuance if construction has not commenced. After expiration, a new application must be required to begin construction.
4. Any change in plans or specifications of the OWTS after the permit has been issued invalidates the permit unless the permittee receives written approval from the Saguache County Land Use office. After a permit is invalidated, a new application and subsequent permit is required to begin construction.
5. Repair permits must identify a reasonable period of time in which the owner must make repairs prior to expiration of the permit.
6. Application for a product development permit may be approved by the Saguache County Land Use office consistent with requirements of section 43.4(I) of Regulation 43.

B. Board of Health Review [43.4(B)(9)]

1. When an application is denied by the Saguache County Land Use an applicant may request review by the Saguache County Board of Health.

C. Fees [43.4(B)(4)]

1. Permit fees and fees for other services and tests associated with OWTS will be set by the Saguache County Board of Health, in conformance with section 43.4(B)(4) and (5) of Regulation 43 and 25-10-107, C.R.S.
2. Waiver of fees [43.4(B)(4)(c)] must be approved by the Saguache County Board of Health.

D. Surcharge [43.4(B)(5)]

1. A surcharge of \$23.00 will be collected for each permit issued by Saguache County Land Use office. Of that fee, the Saguache County Land Use will retain three dollars to cover administrative costs and twenty dollars must be transmitted to the Colorado Dept. of Public Health and Environment for use in funding its OWTS program.

5.1 Inspections [43.4(E)]**A. Septic Tank [43.9(B)(3)(c)]**

1. The applicant must notify the Saguache County Land Use office its designee a minimum of forty-eight (48) hours so Saguache County Land Use or its designee can conduct a field inspection of the septic tank before backfilling.

B. Soil Treatment Area and Related Components [43.4(F)(3)]

1. The applicant must notify the Saguache County Land Use office or its designee forty-eight (48) hours so Saguache County Land Use or its designee can conduct a final field inspection of the soil treatment area and all related components of the OWTS before backfilling.

6.1 Prohibition of OWTS in Unsuitable Areas [43.4(J)]

Except for repair or replacement of existing systems, OWTS will not be allowed in subdivisions or platted lots with lots smaller than one (1) acre. OWTS will permitted on multiple contiguous lots that are combined to create a minimum of one (1) acre parcel.

7.1 Licensing of Systems Contractors and System Cleaners

Not required in Saguache County

8.1 Variances [43.4(N)]**A. Variances Allowed**

1. The Board of Health may approve a variance from a requirement of this Regulation. Variances cannot be granted by staff.
2. Approval of a variance shall be based upon evidence presented by the applicant showing that the variance: a) would not be injurious to the public health, water quality, or environment; and b) would prevent a substantial hardship to the applicant.
3. Variances shall not be granted under the items identified in section 43.4(N)(5) of Regulation 43.

B. Variance Procedure

1. Variance requests shall be provided by filing an application for a variance with the Saguache County Board of Public Health or its designee as permitted by Sec 43.4(N) of Regulation 43.
2. Variance requests shall include all items identified in section 43.4(N)(2)(d) of Regulation 43.
3. The applicant has the burden of proof to demonstrate that the variance is justified and will pose no greater risk to public health and the environment than would a system meeting these Regulations. The Board of Health shall determine if this item has been addressed prior to granting a variance.
4. The Board of Health has the authority to impose site-specific requirements and conditions on any variance granted.

C. Variances Requiring Public Hearings

1. **Repairs:** The Saguache County Board of Public Health may provide a variance from the design and/or siting requirements of the Saguache County Regulations on On-Site Waste Water Treatment Systems per the allowances stated in Sections 43.4.N.5 and 6 of Regulation 43.
2. **A) Published Notice.** Prior to the rendering on a variance request, a public hearing must be held. The hearing shall be the subject of a public notice in a newspaper of general circulation in the county. The notice shall be published no less than 30 days in advance of the public hearing.

B) Mailed Notice. Prior to the rendering a decision on a variance request, a notice to all property owners within 500 feet radius of the exterior boundary of the subject property at least 30 days before the scheduled public hearing, using available county records to compile a mailing list.

9.1 Special Soil Types Requiring Different Percolation Test Procedure [43.5(D)(4)(e)(6)]**A. Requirements for site and evaluation soil.**

1. In areas with high water tables and unsuitable soil, an engineered design and report is required.

10.1 Requirement for Percolation Holes and Profile Test Pits to Remain Open [43.5(E)]**A. Percolation Holes**

1. Percolation holes must remain open until evaluation by the Saguache County Land Use office or its designee.

B. Profile Test Pits

1. Profile test pit holes must remain open until an evaluation by Saguache County Land Use or its designee.

Appendix A to the On-site Water Treatment System Regulations for Saguache County**Attached**

Appendix A to OWTS

Local Public Health Agency: Saguache County

CROSSWALK

ITEM	REQUIREMENTS See Check Box for Decision Chosen.		Citation Reg #43	Citation Local Reg
Occupancy – Residential	Bedrooms 1 through 3: 2 people per bedroom All additional Bedrooms: 1 person per bedroom	<input checked="" type="checkbox"/>	43.6.A.2e	
	All bedrooms: 2 persons per bedroom	<input type="checkbox"/>	43.6.A.2f	
How the number of bedrooms in a home will be defined for flow requirements	Bedrooms: flow estimates will be determined from the number of bedrooms originally finished.	<input type="checkbox"/>		
	If unfinished area is present in house, system must also be sized for 1 or 2 more bedrooms based on an assumption that 150 square feet of unfinished space can be converted into a bedroom, if the space can meet applicable code requirements for a bedroom.	<input type="checkbox"/>	43.6.A.2.h	
Effluent Screen	May be used (<i>owner's option</i>)	<input checked="" type="checkbox"/>	43.9.J.1	
	Required in all new septic tanks	<input type="checkbox"/>	43.9.J.1	
Length of Distribution Laterals (e.g., trenches or beds)	Limit the length of distribution lines to a maximum of 100 feet.	<input type="checkbox"/>	43.10.E.2.c	
	100 feet maximum for gravity fed from one end, and up to 150 feet if pressure dosed or effluent applied at center of lateral or chamber	<input checked="" type="checkbox"/>	43.10.E.2.b & c	
Inspection ports at initial (front) end of distribution line (e.g., lateral or chamber)	Not required	<input checked="" type="checkbox"/>		
	Required	<input type="checkbox"/>	43.10.F.6.d	
Vault Privies – new	Allow new vault privies	<input checked="" type="checkbox"/>	43.12.D.1.a	
	Prohibit new vault privies	<input type="checkbox"/>	43.12.D.1.a	
Vault Privies - existing	Allow continued use of existing vault privies	<input checked="" type="checkbox"/>	43.12.D.1.b	
	Require abandonment of existing vault privies	<input type="checkbox"/>	43.12.D.1.b	
Pit Privies - new	Allow new pit privies	<input type="checkbox"/>	43.12.D.2.c	
	Prohibit new pit privies	<input checked="" type="checkbox"/>	43.12.D.2.a	
Pit Privies - existing	Allow continued use of existing pit privies	<input checked="" type="checkbox"/>	43.12.D.2.c	
	Require abandonment of existing pit privies	<input type="checkbox"/>	43.12.D.2.b	
Slit trenches	Allow slit trenches	<input type="checkbox"/>	43.12.F	
	Prohibit slit trenches	<input checked="" type="checkbox"/>	43.12.F	
Reductions in STA size or separation distances for higher level treatment systems; OWTS O/M and LPHA oversight required	Allow reductions for higher level treatment.	<input type="checkbox"/>	43.14.D.2	
	Reductions for higher level treatment not allowed	<input checked="" type="checkbox"/>	43.14.D.3	
Transfer of Title inspections	Inspection of OWTS required prior to transfer of title	<input type="checkbox"/>	43.4.L.1	
	Inspection of OWTS NOT required	<input checked="" type="checkbox"/>	43.4.L.1	



Colorado Department
of Public Health
and Environment

**Water Quality Control Division
Engineering Section
On-site Wastewater Treatment Systems**

4300 Cherry Creek Drive South, B2
Denver, Colorado 80246-1530
CDPHE.WQEngReview@state.co.us
303-692-6298

Local Regulation Review Submittal Form

A. General Information			
Type of Submittal	2017 Regulation Update	<input type="checkbox"/>	Submittal Date
	Modification	<input checked="" type="checkbox"/>	Portions Modified: 43.12.D.2.c, and 43.12.D.2.a
Local Public Health Agency Name	Saguache County Public Health Department		
Submittal Title	Saguache County Guidelines for On-Site Waste Water Treatment System		
County/Countries Covered	Saguache County		
B: Local Public Health Agency (LPHA) Contact Information			
Main Contact Name	Wendi Maez		
Title	Land Use Administrator		
Address	PO Box 326		
	Saguache, CO 81149		
Email	wmaez@saguachecounty-co.gov		
Phone	719-655-2321	Fax	719-655-2635
Alternate Contact Name	Amber Wilson		
Title	Land Use Deputy		
Address	PO Box 326		
	Saguache, CO 81149		
Email	atorrez@saguachecounty-co.gov		
Phone	719-655-2321	Fax	719-655-2635
C. Report Submittal Requirements			
One hard copy of any submitted material and an electronic copy (PDF). Send PDF to CDPHE.WQEngReview@state.co.us			<input checked="" type="checkbox"/>
Local Regulation Format (Select appropriate description.)	CDPHE template used for Regulation		<input checked="" type="checkbox"/>
	Regulation format consistent with Regulation 43 sections.		<input checked="" type="checkbox"/>
	Regulation follows a different section format. Note: If format is different, the "cross-walk" must be completed. (See pages 5-6.)		<input type="checkbox"/>

* Use this area if additional space is needed:

Local Public Health Agency:			
D. Decision Points Summary – Local On-site Wastewater Treatment System Regulations			CROSSWALK
ITEM: Options Below are the Same as in 2013 Regulation 43	ALTERNATIVES Select Check Box for Decision Chosen. (Only one selection per item. Decisions must also be identified either within the local regulation or Appendix A to the regulation)	Citation Reg #43	Citation Local Reg
Licensing Systems Contractors and Systems Cleaners	Neither (<i>Do not license contractors or cleaners</i>)	<input checked="" type="checkbox"/>	43.4.K
	Systems Contractors only are licensed	<input type="checkbox"/>	43.4.K.1
	Systems Cleaners only are licensed	<input type="checkbox"/>	43.4.K.3
	Both contractors and cleaners are licensed	<input type="checkbox"/>	43.4.K.1 and 3
Variances	Variances Allowed (<i>Must have a variance procedure prescribed within the local regulation.</i>)	<input checked="" type="checkbox"/>	43.4.N.
	Variances not allowed	<input type="checkbox"/>	43.4.N
Occupancy – Residential	Bedrooms 1 through 3: 2 people per bedroom All additional Bedrooms: 1 person per bedroom	<input checked="" type="checkbox"/>	43.6.A.2e
	All bedrooms: 2 persons per bedroom	<input type="checkbox"/>	43.6.A.2.f
How the number of bedrooms in a home will be defined for flow requirements	Bedrooms: flow estimates will be determined from the number of bedrooms originally finished	<input checked="" type="checkbox"/>	
	If unfinished area is present in house, OWTS must also be sized for 1 or 2 more bedrooms based on an assumption that 150 square feet of unfinished space can be converted into a bedroom, if the space can meet applicable code requirements for a bedroom.	<input type="checkbox"/>	43.6.A.2.h
Effluent Screen	May be used (<i>owner's option</i>)	<input checked="" type="checkbox"/>	43.9.J.1
	Required in all new septic tanks	<input type="checkbox"/>	43.9.J.1
Length of distribution laterals (e.g., trenches or beds)	100 feet maximum length for any OWTS system	<input type="checkbox"/>	43.10.E.2.d
	100 feet maximum for gravity fed from one end, and up to 150 feet if pressure dosed or effluent applied at center of lateral or chamber	<input checked="" type="checkbox"/>	43.10.E.2.b & c
Inspection ports at initial (front) end of lateral or chamber	Not required	<input checked="" type="checkbox"/>	
	Required	<input type="checkbox"/>	43.10.F.6.d
Vault Privies – new	Allow new vault privies	<input checked="" type="checkbox"/>	43.12.D.1.a
	Prohibit new vault privies	<input type="checkbox"/>	43.12.D.1.a
Vault Privies - existing	Allow continued use of existing vault privies	<input checked="" type="checkbox"/>	43.12.D.1.b
	Require abandonment of existing vault privies	<input type="checkbox"/>	43.12.D.1.b

Local Public Health Agency:				
ITEM	ALTERNATIVES Select Check Box for Decision Chosen. (Only one selection per item.)		Citation Reg #43	Citation Local Reg
Pit Privies - new	Allow new pit privies	<input type="checkbox"/>	43.12.D.2.c	
	Prohibit new pit privies	<input checked="" type="checkbox"/>	43.12.D.2.a	
Pit Privies - existing	Allow continued use of existing pit privies	<input type="checkbox"/>	43.12.D.2.c	
	Require abandonment of existing pit privies	<input checked="" type="checkbox"/>	43.12.D.2.b	
Slit trenches	Allow slit trenches	<input type="checkbox"/>	43.12.F	
	Prohibit slit trenches	<input checked="" type="checkbox"/>	43.12.F	
Optional Programs/Permits				
Reductions in soil treatment area (STA) size or separation distances for higher level treatment systems with mandatory maintenance and oversight	Allow reductions for higher level treatment. (To allow reductions, local regulation must require mandatory inspections and maintenance, and local public health agency program of inspection and maintenance oversight must be in place.)	<input type="checkbox"/>	43.14.D.2	
	Reductions in area and separation distances not allowed for higher level treatment systems.	<input checked="" type="checkbox"/>	43.14.D.3	
Transfer of Title inspections	Required (If transfer of title inspections are required, the criteria that inadequate systems must achieve following repair or replacement must be specified in local regulation.)	<input type="checkbox"/>	43.4.L.1	
	Not required	<input checked="" type="checkbox"/>	43.4.L.1	
Permits for the Continued Use of an OWTS; Define these items on Pg. 4 that are more stringent than Regulation 43.	Used in local regulation (Specify purpose within local regulation.)	<input type="checkbox"/>	43.4.M.1	
	Not used in local regulation	<input checked="" type="checkbox"/>		
For CDPHE Tracking Purposes				
Require that all Soil Evaluations be submitted and stamped by a licensed professional engineer	All soil evaluations must be submitted by a licensed professional engineer	<input type="checkbox"/>	N/A	
	A licensed professional engineer or "Competent Technician" may submit soil evaluations	<input checked="" type="checkbox"/>	N/A	
Require that all OWTS designs be submitted and stamped by a licensed professional engineer	All OWTS plans must be stamped by a licensed professional engineer	<input type="checkbox"/>	N/A	
	We do not require an engineer's stamp for sites where an engineer's stamp is not required by Regulation 43; Reference section 43.10.B	<input checked="" type="checkbox"/>	N/A	

Local Public Health Agency:

Local Regulation Cross-Walk to Regulation 43
(For Local Regulations That Do NOT Follow Regulation 43 Section Outline.)

Regulation 43 Citation	Requirement	Citation in Local Regulation
43.1	Authority; WQCD	
43.2	Scope and Purpose	
43.3	Definitions; Abbreviations and Acronyms	
43.4	Applicability	
43.4.A	Regulations Adopted by Local Boards of Health	
43.4.B	Permit Application Requirements and Procedures	
43.4.C	Determination	
43.4.D	Access to Site	
43.4.E	Inspection Stages	
43.4.F	Final approval of the permit by the local public health agency	
43.4.G	WQCD (Division Authority to Administer and Enforce)	
43.4.H	Primary Enforcement Responsibility	
43.4.I	Product Development Permit	
43.4.J	Prohibition of OWTS in Unsuitable Areas	
43.4.K	Licensing of Systems Contractors and Systems Cleaners	
43.4.L	Transfer of Title Inspections	
43.4.M	Permits for the Continued Use of an OWTS	
43.4.N	Variance Procedure	
43.4.O	General Prohibitions	
43.4.P	Cease and Desist Orders	
43.4.Q	Penalties	
43.5	Site and Soil Evaluation	
43.5.A	Site and Soil Evaluation Requirements	
43.5.B	Preliminary Investigation	
43.5.C	Reconnaissance Visit	
43.5.D	Detailed Soil Investigation	
43.5.E	Marking of Soil Profile Test Pits Excavations and Percolation Holes	
43.5.F	Report and Site Plan	
43.5.G	Design Document	
43.5.H	Site Protection	
43.5.I	Qualifications for a Competent Technician	
43.6	Wastewater Flow and Strength	
43.6.A	Wastewater Flows	
43.6.B	Wastewater Strength	
43.7	Minimum Distances Between Components of an On-site Wastewater Treatment System and Physical Features	
43.7.A	Horizontal Distances, general	
43.7.B	Reductions in Separation Distances [If higher level treatment and provisions for operation and maintenance in accordance with 43.14.D.]	
43.7.C	Dry Gulches, Cut Banks and Fill Areas	
43.7.D	Minimum or Increased Distance Requirements	
43.7.E	Separation Distances to Specific Features	
43.8	Design Criteria – General	
43.8.A	Design Criteria; Separated Flows	
43.8.B	Design Criteria; Treatment Levels	
43.8.C	Design Criteria; Reliability	
43.8.D	Accessibility for Inspection, Maintenance, and Servicing	
43.8.E	Plumbing Codes	
43.8.F	Electrical Equipment	
43.8.G	Indicators of Failure or Malfunctioning for Systems Utilizing Mechanical Apparatus	
43.8.H	Sampling Access	
43.8.I	Component Operating Instructions	
43.8.J	Surface Activity	
43.8.K	Floodplains	
43.8.L	Business, Commercial, Industrial, Institutional or Multi-Family Dwelling Wastewater Systems	

Local Public Health Agency:

Local Regulation Cross-Walk to Regulation 43
(For Local Regulations That Do NOT Follow Regulation 43 Section Outline.)

Regulation 43 Citation	Requirement	Citation in Local Regulation
43.9	Design Criteria – Components	
43.9.A	Tanks and Vaults	
43.9.B	Septic Tanks	
43.9.C	Abandonment of Tank	
43.9.D	Pipe Standards and Bedding Requirements	
43.9.E	Cleanouts	
43.9.F	Distribution Box	
43.9.G	Drop Box	
43.9.H	Stepdown/Relief Line	
43.9.I	Wastewater Pumping and Dosing Siphon Systems	
43.9.J	Effluent Screens	
43.9.K	Grease Interceptor Tanks	
43.10	Design Criteria – Soil Treatment Area	
43.10.A	Size and Design	
43.10.B	Conditions Requiring Professional Engineer	
43.10.C	Calculation of Infiltrative Surface of Soil Treatment Area	
43.10.D	Allowable Soil Treatment Area Reductions and Increases	
43.10.E	Design of Distribution Systems	
43.10.F	Soil Treatment Area Requirements	
43.10.G	Storage/Distribution Media	
43.10.H	Soil Replacement	
43.10.I	Repairs	
43.11	Design Criteria – Higher Level Treatment Systems	
43.11.A	General	
43.11.B	Treatment Levels [Adequate maintenance required and documented in accordance with 43.14.D.]	
43.11.C	Sand Filters	
43.11.D	Mound Systems	
43.11.E	Rock Plant Filter (Constructed Wetland) Treatment Before a Soil Treatment Area	
43.12	Design Criteria – Other Facilities	
43.12.A	Evapotranspiration and Evapotranspiration/Absorption Systems	
43.12.B	Seepage Pits	
43.12.C	Vaults Other Than Vault Privies	
43.12.D	Privies	
43.12.E	Incinerating, Composting, and Chemical Toilets	
43.12.F	Slit Trench Latrine	
43.12.G	Treatment Systems Other Than Those Discharging Through a Soil Treatment Area or Sand Filter System	
43.13	WQCD (Technology Review and Acceptance)	
43.13.A	Alternative Technologies	
43.13.B	Division Review	
43.13.C	Product Acceptance Requirements; General	
43.13.D	Proprietary Treatment Product Acceptance Requirements	
43.13.E	Proprietary Distribution Product Acceptance Requirements	
43.13.F	Septic Tank Acceptance Requirements	
43.13.G	Other Products; Acceptance	
43.14	Operation and Maintenance; WQCD role	
43.14.A	Responsibility	
43.14.B	Service Label	
43.14.C	Local Regulations for maintenance, practices, submittals	
43.14.D	Permitting and Oversight of Maintenance for Soil Treatment Area Reductions and Vertical and Horizontal Separation Distance Reductions Based on Use of Higher Level Treatment	
43.14.E	Monitoring and Sampling	
43.15	Severability	
43.16	Materials Incorporated by Reference	

Please supplement the Cross-Walk on additional sheets as necessary (e.g., if smaller portions of sections are separated).



Water Quality Control Division
Engineering Section
On-site Wastewater Treatment Systems

4300 Cherry Creek Drive South, B2
 Denver, Colorado 80246-1530
CDPHE.WQEngReview@state.co.us
 303-692-6298

Colorado Department
 of Public Health
 and Environment

Local Regulation Review Submittal Form

A. General Information			
Type of Submittal	2017 Regulation Update	<input type="checkbox"/>	Submittal Date:
	Modification	<input checked="" type="checkbox"/>	Portions Modified*: 43.12.D.2.c, and 43.12.D.2.a
Local Public Health Agency Name	Saguache County Public Health Department		
Submittal Title	Saguache County Guidelines for On-Site Waste Water Treatment System		
County/COUNTIES Covered	Saguache County		
B: Local Public Health Agency (LPHA) Contact Information			
Main Contact Name	Wendi Maez		
Title	Land Use Administrator		
Address	PO Box 326		
	Saguache, CO 81149		
Email	wmaez@saguachecounty-co.gov		
Phone	719-655-2321	Fax	719-655-2635
Alternate Contact Name	Amber Wilson		
Title	Land Use Deputy		
Address	PO Box 326		
	Saguache, CO 81149		
Email	atorrez@saguachecounty-co.gov		
Phone	719-655-2321	Fax	719-655-2635
C. Report Submittal Requirements			
One hard copy of any submitted material and an electronic copy (PDF). Send PDF to CDPHE.WQEngReview@state.co.us			<input checked="" type="checkbox"/>
Local Regulation Format (Select appropriate description.)	CDPHE template used for Regulation		<input checked="" type="checkbox"/>
	Regulation format consistent with Regulation 43 sections.		<input checked="" type="checkbox"/>
	Regulation follows a different section format. Note: If format is different, the "cross-walk" must be completed. (See pages 5-6.)		<input type="checkbox"/>

* Use this area if additional space is needed:

Local Public Health Agency: _____

D. Decision Points Summary – Local On-site Wastewater Treatment System Regulations

CROSSWALK

ITEM: Options Below are the Same as in 2013 Regulation 43	ALTERNATIVES Select Check Box for Decision Chosen. (Only one selection per item. Decisions must also be identified either within the local regulation or Appendix A to the regulation)	Citation Reg #43	Citation Local Reg
Licensing Systems Contractors and Systems Cleaners	Neither (<i>Do not license contractors or cleaners</i>) <input checked="" type="checkbox"/>	43.4.K	
	Systems Contractors only are licensed <input type="checkbox"/>	43.4.K.1	
	Systems Cleaners only are licensed <input type="checkbox"/>	43.4.K.3	
	Both contractors and cleaners are licensed <input type="checkbox"/>	43.4.K.1 and 3	
Variances	Variances Allowed (<i>Must have a variance procedure prescribed within the local regulation.</i>) <input checked="" type="checkbox"/>	43.4.N.	
	Variances not allowed <input type="checkbox"/>	43.4.N	
Occupancy – Residential	Bedrooms 1 through 3: 2 people per bedroom All additional Bedrooms: 1 person per bedroom <input checked="" type="checkbox"/>	43.6.A.2e	
	All bedrooms: 2 persons per bedroom <input type="checkbox"/>	43.6.A.2.f	
How the number of bedrooms in a home will be defined for flow requirements	Bedrooms: flow estimates will be determined from the number of bedrooms originally finished <input checked="" type="checkbox"/>		
	If unfinished area is present in house, OWTS must also be sized for 1 or 2 more bedrooms based on an assumption that 150 square feet of unfinished space can be converted into a bedroom, if the space can meet applicable code requirements for a bedroom. <input type="checkbox"/>	43.6.A.2.h	
Effluent Screen	May be used (<i>owner's option</i>) <input checked="" type="checkbox"/>	43.9.J.1	
	Required in all new septic tanks <input type="checkbox"/>	43.9.J.1	
Length of distribution laterals (e.g., trenches or beds)	100 feet maximum length for any OWTS system <input type="checkbox"/>	43.10.E.2.d	
	100 feet maximum for gravity fed from one end, and up to 150 feet if pressure dosed or effluent applied at center of lateral or chamber <input checked="" type="checkbox"/>	43.10.E.2.b & c	
Inspection ports at initial (front) end of lateral or chamber	Not required <input checked="" type="checkbox"/>		
	Required <input type="checkbox"/>	43.10.F.6.d	
Vault Privies – new	Allow new vault privies <input checked="" type="checkbox"/>	43.12.D.1.a	
	Prohibit new vault privies <input type="checkbox"/>	43.12.D.1.a	
Vault Privies - existing	Allow continued use of existing vault privies <input checked="" type="checkbox"/>	43.12.D.1.b	
	Require abandonment of existing vault privies <input type="checkbox"/>	43.12.D.1.b	

Local Public Health Agency:			
ITEM	ALTERNATIVES Select Check Box for Decision Chosen. (Only one selection per item.)	Citation Reg #43	Citation Local Reg
Pit Privies - new	Allow new pit privies	<input type="checkbox"/>	43.12.D.2.c
	Prohibit new pit privies	<input checked="" type="checkbox"/>	43.12.D.2.a
Pit Privies - existing	Allow continued use of existing pit privies	<input type="checkbox"/>	43.12.D.2.c
	Require abandonment of existing pit privies	<input checked="" type="checkbox"/>	43.12.D.2.b
Slit trenches	Allow slit trenches	<input type="checkbox"/>	43.12.F
	Prohibit slit trenches	<input checked="" type="checkbox"/>	43.12.F
Optional Programs/Permits			
Reductions in soil treatment area (STA) size or separation distances for higher level treatment systems with mandatory maintenance and oversight	Allow reductions for higher level treatment. <i>(To allow reductions, local regulation must require mandatory inspections and maintenance, and local public health agency program of inspection and maintenance oversight must be in place.)</i>	<input type="checkbox"/>	43.14.D.2
	Reductions in area and separation distances not allowed for higher level treatment systems.	<input checked="" type="checkbox"/>	43.14.D.3
Transfer of Title inspections	Required <i>(If transfer of title inspections are required, the criteria that inadequate systems must achieve following repair or replacement must be specified in local regulation.)</i>	<input type="checkbox"/>	43.4.L.1
	Not required	<input checked="" type="checkbox"/>	43.4.L.1
Permits for the Continued Use of an OWTS; Define these items on Pg. 4 that are more stringent than Regulation 43.	Used in local regulation <i>(Specify purpose within local regulation.)</i>	<input type="checkbox"/>	43.4.M.1
	Not used in local regulation	<input checked="" type="checkbox"/>	
For CDPHE Tracking Purposes			
Require that all Soil Evaluations be submitted and stamped by a licensed professional engineer	All soil evaluations must be submitted by a licensed professional engineer	<input type="checkbox"/>	N/A
	A licensed professional engineer or "Competent Technician" may submit soil evaluations	<input checked="" type="checkbox"/>	N/A
Require that all OWTS designs be submitted and stamped by a licensed professional engineer	All OWTS plans must be stamped by a licensed professional engineer	<input type="checkbox"/>	N/A
	We do not require an engineer's stamp for sites where an engineer's stamp is not required by Regulation 43; Reference section 43.10.B	<input checked="" type="checkbox"/>	N/A

Local Public Health Agency: _____

**Local Regulation Cross-Walk to Regulation 43
(For Local Regulations That Do NOT Follow Regulation 43 Section Outline.)**

Regulation 43 Citation	Requirement	Citation in Local Regulation
43.1	Authority; WQCD	
43.2	Scope and Purpose	
43.3	Definitions; Abbreviations and Acronyms	
43.4	Applicability	
43.4.A	Regulations Adopted by Local Boards of Health	
43.4.B	Permit Application Requirements and Procedures	
43.4.C	Determination	
43.4.D	Access to Site	
43.4.E	Inspection Stages	
43.4.F	Final approval of the permit by the local public health agency	
43.4.G	WQCD (Division Authority to Administer and Enforce)	
43.4.H	Primary Enforcement Responsibility	
43.4.I	Product Development Permit	
43.4.J	Prohibition of OWTS in Unsuitable Areas	
43.4.K	Licensing of Systems Contractors and Systems Cleaners	
43.4.L	Transfer of Title Inspections	
43.4.M	Permits for the Continued Use of an OWTS	
43.4.N	Variance Procedure	
43.4.O	General Prohibitions	
43.4.P	Cease and Desist Orders	
43.4.Q	Penalties	
43.5	Site and Soil Evaluation	
43.5.A	Site and Soil Evaluation Requirements	
43.5.B	Preliminary Investigation	
43.5.C	Reconnaissance Visit	
43.5.D	Detailed Soil Investigation	
43.5.E	Marking of Soil Profile Test Pits Excavations and Percolation Holes	
43.5.F	Report and Site Plan	
43.5.G	Design Document	
43.5.H	Site Protection	
43.5.I	Qualifications for a Competent Technician	
43.6	Wastewater Flow and Strength	
43.6.A	Wastewater Flows	
43.6.B	Wastewater Strength	
43.7	Minimum Distances Between Components of an On-site Wastewater Treatment System and Physical Features	
43.7.A	Horizontal Distances, general	
43.7.B	Reductions in Separation Distances [If higher level treatment and provisions for operation and maintenance in accordance with 43.14.D.]	
43.7.C	Dry Gulches, Cut Banks and Fill Areas	
43.7.D	Minimum or Increased Distance Requirements	
43.7.E	Separation Distances to Specific Features	
43.8	Design Criteria – General	
43.8.A	Design Criteria; Separated Flows	
43.8.B	Design Criteria; Treatment Levels	
43.8.C	Design Criteria; Reliability	
43.8.D	Accessibility for Inspection, Maintenance, and Servicing	
43.8.E	Plumbing Codes	
43.8.F	Electrical Equipment	
43.8.G	Indicators of Failure or Malfunctioning for Systems Utilizing Mechanical Apparatus	
43.8.H	Sampling Access	
43.8.I	Component Operating Instructions	
43.8.J	Surface Activity	
43.8.K	Floodplains	
43.8.L	Business, Commercial, Industrial, Institutional or Multi-Family Dwelling Wastewater Systems	

**Local Regulation Cross-Walk to Regulation 43
(For Local Regulations That Do NOT Follow Regulation 43 Section Outline.)**

Regulation 43 Citation	Requirement	Citation in Local Regulation
43.9	Design Criteria – Components	
43.9.A	Tanks and Vaults	
43.9.B	Septic Tanks	
43.9.C	Abandonment of Tank	
43.9.D	Pipe Standards and Bedding Requirements	
43.9.E	Cleanouts	
43.9.F	Distribution Box	
43.9.G	Drop Box	
43.9.H	Stepdown/Relief Line	
43.9.I	Wastewater Pumping and Dosing Siphon Systems	
43.9.J	Effluent Screens	
43.9.K	Grease Interceptor Tanks	
43.10	Design Criteria – Soil Treatment Area	
43.10.A	Size and Design	
43.10.B	Conditions Requiring Professional Engineer	
43.10.C	Calculation of Infiltrative Surface of Soil Treatment Area	
43.10.D	Allowable Soil Treatment Area Reductions and Increases	
43.10.E	Design of Distribution Systems	
43.10.F	Soil Treatment Area Requirements	
43.10.G	Storage/Distribution Media	
43.10.H	Soil Replacement	
43.10.I	Repairs	
43.11	Design Criteria – Higher Level Treatment Systems	
43.11.A	General	
43.11.B	Treatment Levels [Adequate maintenance required and documented in accordance with 43.14.D.]	
43.11.C	Sand Filters	
43.11.D	Mound Systems	
43.11.E	Rock Plant Filter (Constructed Wetland) Treatment Before a Soil Treatment Area	
43.12	Design Criteria – Other Facilities	
43.12.A	Evapotranspiration and Evapotranspiration/Absorption Systems	
43.12.B	Seepage Pits	
43.12.C	Vaults Other Than Vault Privies	
43.12.D	Privies	
43.12E	Incinerating, Composting, and Chemical Toilets	
43.12.F	Slit Trench Latrine	
43.12.G	Treatment Systems Other Than Those Discharging Through a Soil Treatment Area or Sand Filter System	
43.13	WQCD (Technology Review and Acceptance)	
43.13.A	Alternative Technologies	
43.13.B	Division Review	
43.13.C	Product Acceptance Requirements; General	
43.13.D	Proprietary Treatment Product Acceptance Requirements	
43.13E	Proprietary Distribution Product Acceptance Requirements	
43.13.F	Septic Tank Acceptance Requirements	
43.13.G	Other Products; Acceptance	
43.14	Operation and Maintenance; WQCD role	
43.14.A	Responsibility	
43.14.B	Service Label	
43.14.C	Local Regulations for maintenance, practices, submittals	
43.14.D	Permitting and Oversight of Maintenance for Soil Treatment Area Reductions and Vertical and Horizontal Separation Distance Reductions Based on Use of Higher Level Treatment	
43.14.E	Monitoring and Sampling	
43.15	Severability	
43.16	Materials Incorporated by Reference	

Please supplement the Cross-Walk on additional sheets as necessary (e.g., if smaller portions of sections are separated).

