

115 E. Radio Lane Arkansas City, KS 67005 Phone: (620) 442-3260 Fax: (620) 442-1759

# CITY-COWLEY COUNTY HEALTH DEPARTMENT RESIDENTIAL WASTEWATER SYSTEM INSPECTION GUIDANCE DOCUMENT

NOVEMBER  $10^{TH}$ , 2022



115 E. Radio Lane Arkansas City, KS 67005 Phone: (620) 442-3260 Fax: (620) 442-1759

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#### **Preface**

The Cowley County Board of Commissioners is dedicated to serving and protecting the population of Cowley County. To this end, the Cowley County Sanitary Code was written and adopted. The City-Cowley County Health Department (CCCHD) is delegated the authority to enforce the provisions within the Sanitary Code, including inspections of private residential wastewater systems. These inspections are performed as a requirement before a home serviced by a private wastewater system is sold, and they provide a measure of security for new homeowners in the county. Inspections look for signs of failure or threats that could lead to failure within the wastewater system.

This document seeks to provide clarity and transparency in matters of jurisdiction, justification, process, and procedure regarding residential wastewater system inspections.

City-Cowley County Health Department

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#### **Definitions**

**Area of concern**: An observed condition or trait that may develop into a deficiency in the future but does not count as a deficiency for the purposes of inspection criteria.

**Deficiency**: A threat and/or abnormality that affects the safe and sanitary operation of a wastewater system in a negative way.

**Design Deficiency**: A deficiency in the design, placement, or sizing of a wastewater system

**Inspection**: The examination of a private wastewater system for deficiencies and/or areas of concern.

**Lagoon (Wastewater Retention Pond)**: A private, decentralized wastewater system that utilizes wind and solar energy evaporation to treat wastewater. A lagoon may or may not have a septic tank that holds solid waste.

**Kansas Department of Health and Environment (KDHE)**: The State Department of Health, KDHE works to protect and improve the health and environment of all Kansans.

**Private Wastewater System**: Any wastewater system that treats and disposes of the wastewater of a single property.

**Operational Deficiency**: A deficiency that directly impacts the functionality of a wastewater system.



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#### **Authorities**

Kansas Statutes Annotated (KSA) 19-3701 to 19-3709 et. seq, provide authority to counties to "...adopt a sanitary code or codes ... for the control of those environments and environmental conditions that may adversely affect the health and well-being of the public." Further, minimum design standards and safety considerations published in Kansas Bulletin 4-2: Minimum Standards for Design and Construction of Onsite Wastewater Systems provide a basis of inspection criteria. Further inspection criteria can be found in K.A.R. 28-5-1 to 28-5-93 governing sewage and excreta disposal.

The Cowley County Sanitary Code provides justification for inspection actions. Section 2-4.1 under Prohibited Practices states that "No person shall transfer the ownership of any property with a private wastewater system until it has been inspected by the Administrative Agency, the Cowley County Health Department, and the results of that inspection are made available to the transferee." The Sanitation Code goes further into definitions and other requirements but does not specify what constitutes an inspection. This document shall clarify the inspection process in the interest of transparency.



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#### **Wastewater System Inspection Procedure**

#### **Requesting an Inspection**

All requests for residential inspection must be made to the CCCHD by completing the *Residential Inspection Request* (See Appendix A) in its entirety. The form can be found on Cowley County's website under Government -> Public Health -> Local Environmental Protection Program page<sub>5</sub>. Completed forms should be submitted electronically to <a href="mailto:septicinspections@cowleycountyks.gov">septicinspections@cowleycountyks.gov</a>, or by traditional mail via USPS, or in person at either of the CCCHD office locations in Arkansas City or Winfield.

With the exception of applications requiring a mailed or telephone response, the requesting party will be notified within one business day of receiving the request through electronic mail. If electronic mail is unavailable, then confirmation will be delivered by phone, or by mailed letter if no other option is available. If confirmation is not sent to the requesting party within this timeframe, the requesting party should follow up and verify that the request was delivered appropriately and received by the CCCHD. Incomplete forms or requests submitted by any other means will not be accepted.

Once the inspection request has been received by the CCCHD, a confirmation notification will be issued. This notification will include proof of receipt as well as proposed time and date of inspection. The proposed date will be based off the suggested times put forth by the requester on the inspection request form. The suggested times should be times that representatives of the buyer and/or seller are able to meet the inspector at the property. Once proposed, verification of the inspection time will be requested. If the proposed time is not verified due to no response, additional verification requests will be issued. Should the proposed time not be verified before the date and time of the inspection, then attempts will be made to reschedule.

#### **Types of Inspections**

In Cowley County there are 2 basic types of residential wastewater systems.

**Septic tank and absorption field**: This wastewater system is located entirely beneath the surface and utilizes a septic tank to hold solid waste and allow solids in the wastewater to separate before being drained into an absorption field for safe reintroduction into the environment.

**Wastewater stabilization pond (lagoon):** This wastewater system utilizes an above ground retention pond to allow for sunlight and wind to safely evaporate water off the surface of the pond. These systems may or may not have a septic tank for solids retention located between the building and the pond.

#### **Conducting the On-Site Inspection**

The inspector will meet with the designated representative at the property on the designated date and time. There are two main components of a residential wastewater system inspection, conducted on the interior and exterior of the residence/building.



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#### **Buildings Utilizing a Septic Tank and Absorption Field System**

#### On the interior of the building:

- Water fixtures (faucets, water closet, etc.) will be opened to observe drainage flows that can reveal any issues and indicate septic system troubles.
- When possible, waste line will be visually observed where it exits the building seeking to identify any issues as it enters the septic tank and drain field locations.

#### On the exterior of the building:

- Septic tank location will be identified and mapped
- Septic tank location will be visually checked for surface indications of structural deficiencies or damage
- The likeliest location of drain field will be identified and mapped
- Findings of system deficiencies and areas of concern will be noted

#### **Buildings Utilizing a Wastewater Retention Pond System**

#### On the interior of the property:

- Water fixtures (faucets, water closet, etc.) will be opened to observe drainage flows that can reveal any issues and indicate system troubles.
- When possible, waste line will be visually observed where it exits the building seeking to identify any issues as it flows to and enters the stabilization pond.

#### On the exterior of the property:

- Check that water within the lagoon is retained at adequate levels so that solid waste is not exposed to air
- Verify that cleanouts are installed at a minimum of one per 100 foot of waste line, along the run from the building to the lagoon
- Verify that proper fencing is in place around the lagoon
- Examine for any degradation of the berm or retention walls holding the wastewater in place
- Verify no large trees or other deep-rooted plants have grown around (within 10 foot) the lagoon
- Verify no other structural damage to the system

Following the inspection observations will be discussed with the representative(s) present. If noted in the inspection request form a water well sample will also be drawn at this time.



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Any inspections performed by entities other than the CCCHD will <u>NOT</u> be accepted as fulfilling the inspection requirement.

#### After the Site Visit

Once the on-site visit is completed, results will be compiled and published within five business days of the inspection date. The inspection report consists of the following parts:

- Letter of Findings (See Appendix B)
- Original Inspection Request
- Criteria checklist and visual report (See Appendix C)
- Well Water Test Results, if requested (See Appendix D)
- Invoice (See Appendix E)

Passing inspection results will note that no deficiencies were observed at the time of inspection, and that no further action is necessary at the time. A failed inspection result will denote what deficiencies caused the failed result and outline necessary remediation actions. Once these remediation actions are taken, a follow-up inspection will be conducted to examine the remediation and approve the inspection. If there is a deficiency observed that does not directly impact the operation of the system, i.e., undersized design, non-appropriate lot size or placement, etc., then the inspection results will note that as a condition and implement the provision that, when an operational deficiency is encountered, that the original deficiency be remediated at the time of repair.

The inspection results will be valid for ninety (90) days after the inspection is conducted. The inspection results verify the findings and condition of the inspected system on the date of the published inspection. It is not guaranteed that the condition after the inspection date will be the same as the original inspection.

If the results are not utilized within the 90-day validity period, a new inspection will need to be conducted.

#### Fee Structure

The fee structure for inspection services are as follows:

Residential Wastewater Inspection Fee: \$75.00

Private Well Water Screening: \$40.00

Subsequent Well Water Screening (within 30 days of previous screening): \$15.00

Payment of inspection fees must be remitted to the CCCHD or by electronic clearinghouse through the County web portal as available.



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### **External Links**

- 1. <a href="https://www.kdhe.ks.gov/DocumentCenter/View/8765/KSA-19-3701-to-19-3709-Sanitation-controls-PDF">https://www.kdhe.ks.gov/DocumentCenter/View/8765/KSA-19-3701-to-19-3709-Sanitation-controls-PDF</a>
- 2. <a href="https://www.kdhe.ks.gov/DocumentCenter/View/8770/Bulletin-4-2-Minimum-Standards-for-Design-and-Construction-of-Onsite-Wastewater-Systems-PDF">https://www.kdhe.ks.gov/DocumentCenter/View/8770/Bulletin-4-2-Minimum-Standards-for-Design-and-Construction-of-Onsite-Wastewater-Systems-PDF</a>
- 3. <a href="https://www.kdhe.ks.gov/DocumentCenter/View/8768/KAR-28-5-Sewage-and-Excreta-Disposal-PDF">https://www.kdhe.ks.gov/DocumentCenter/View/8768/KAR-28-5-Sewage-and-Excreta-Disposal-PDF</a>
- 4. <a href="https://www.kdhe.ks.gov/DocumentCenter/View/8873/Cowley-County-Environmental-Code-Adopted-March-2006-PDF">https://www.kdhe.ks.gov/DocumentCenter/View/8873/Cowley-County-Environmental-Code-Adopted-March-2006-PDF</a>
- $5. \quad \underline{https://www.cowleycountyks.gov/departments/PublicHealth/LocalEnvironmentalProtectionProgram \underline{am}$



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# **Appendices**

320 E. 9th Suite B Winfield, KS 67156 Phone: (620) 221-1430 (620) 221-0389 Fax:



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# Appendix A: Sample Residential Inspection Request Form

320 E. 9th Suite B Winfield, KS 67156 Phone: (620) 221-1430 Fax: (620) 221-0389  City-Cowley County Health Department Fax: (620) 442-3260 Fax: (620) 442-1759								
Request for Residential Inspection								
Submittal Date: 01/01/2023 Requesting Party: Seller's nt								
Requested Inspection Address: 12345 678th Road Test, N								
Year Built: 1978 Acres: 7.9 Frod Zone: Year No								
Water Supply: Public/Rural Private								
Wastewater System: Septic Tank Lagoon Alternative								
Seller/Owner: Tom and Tammy Test								
Phone: 555-555-5555 Inttest@test.com								
Seller Representative: EZ Realty - Tamara								
Phone: 555-444-4444 st@ezrealty.com								
Purchaser: John and Jane Doe								
Phone: 555-333-3337 jnjdoe@test.com								
Purchaser Representative: Types Zoey Doey								
Phone: 555-222-2222 zdhomes@4u.com								
Lender: Jetpack Jim y Jake								
Phone: 555-11 Email: jjaken@jetpack.com								
Anticipal Closing D 01/31/2023 Is the sale pending? Yes No								
red inspection request forms are to be emailed to inspection is \$75.00.								
Party responsible for palment: Seller								
Is a water sample requested? Yes No Water samples are collected at the time of inspection and screened for EPA safe minimum standards for drinking water, including coliform bacteria presence, E. Coli presense, and concentrations of harmful nitrates. The cost of a water sample is \$40.00.  Party responsible for payment:								
Please indicate availability to meet the inspector on the property.								
Option 1: 01/10/ 9:30AM Option 2: 01/15 2:30PM Option 3: 01/19 ANY								



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## Appendix B: Sample Letter of Findings

320 E. 9<sup>th</sup> Suite B Winfield, KS 67156 Phone: (620) 221-1430 Fax: (620) 221-0389



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\$anuary 20<sup>th</sup>, 2023 Tamara Test EZ Realty 8675309 EZ Street Fantasy, KS 66777 RE: 12345 678th Road Test, KS 67000 Mrs. Test, This letter regards the above referenced address ted at this address on nspecti January 15th, 2022. Currently, there are no ob iencies w le septic system as installed on the property. The septic tank w he top of the hill the house is perched ated a on, near to the covered basement window. cation of the absorption field is out in the brome field. ons of harmful nitrates, coliform The well water screening revealed rning conce bacteria, and E. Coli. No corrective commend) at this time. It is, as always, highly recommended th Sumped and the interior inspected by a the to licensed sewage hauler, a ontinu to be pumped every three to five years as part of routine upkeep and pan If there are any questions to the are or results of this inspection, please reach out to me at the Health Department. I will do what N assist you. Warmly, 01/20/2023 Tanner Langer, CJ Date: Environme ealth Specialist, Floodplain Manager City-Cowley Sounty Health Department 320 E 9th Ave, Suite B Winfield, KS 67156-6001 620-221-1430 ext. 5582 620-218-1167 (Cell)

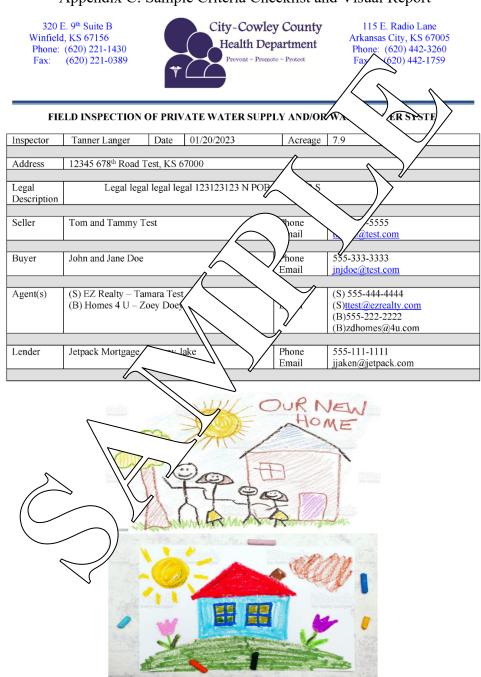
320 E. 9th Suite B Winfield, KS 67156 Phone: (620) 221-1430 (620) 221-0389 Fax:



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## Appendix C: Sample Criteria Checklist and Visual Report





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Winfield, KS 67156-6001



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Section I.	WATER SUPPLY SYSTEM - Location: Backyard
<u>Deficie</u> ( ) ( ) ( )	well head terminates in a pit Well not adequately sealed Well located within 50 feet of wastewater system surface water anim confine ent
Comments/Find	lings:
Section II.	WASTEWATER SYSTEM - Location: West side of home
Comments / Fin possible. Absorp  Property septic to indication ensure	Lateral Field or lagoon located within 50 feet of Cesspool**  Wastewater discharges upon ground/watercourse**  Laundry drain discharges upon ground/watercourse**  Damage to wastewater system comp  diings: Cleanout port near house has sufficient and in field is undersized for comparing the soil as exposed – needs repaired as soon as rative prope  y owner is responsible for proper vative prope  y owner is responsible for proper vative prope  unance of p vate wastewater system including periodic unk pumping and inspection and one continuity of the soil absorption (lateral) field. Any increase of the soil absorption (lateral) field.
standards as out Section I, if an it	lined in Bulletin 4-1 or Boletin 4-2 by the Kansas Department of Health and Environment. In em is marked that contains a sterisk it is considered a health risk according to the Environmental cy (EPA) drinking water standar and guidelines. If any items marked in Section II contain an sidered a card and a violation of state and/or local regulations. It is advisable to upgrade
WATER SUPP	LY SYSTEM (1) PRO) ED) Comments:
WASTEW TE	RSYSTEM - (APPOVED) Comments:
	CFM lealth Specialist, Floodplain Manager unty Health Department



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# Appendix D: Sample Water Test Results

Winfield, i Phone: (6	9 <sup>th</sup> Suite B KS 67156 620) 221-1430 620) 221-0389	City-Cowley Health Depa Prevent ~ Promo  1168: Radio-Lane 326 Arkamana City, KB	rtment	Ark	15 E. Radio ansas City, K one: (620) 4 c: (620) 44	IS 67005 42-3260
	•	ounty Health D Vater Screenin Water Analysi	g Lab			
Sample #:	RI-23-01 SAMPLE	_ Pu	rpose:	Home Sale	$\sum \sum$	
Sample Source:	Kitchen Sink	_ Le	gal (dress:		$\sim$	
Collected By:	TL	_ \	a	See Attachee	voice	
Sampled For:			Pate:		<u> </u>	
Sample Address:	12345 678th Road Test, KS 67000	_ /	( )	\/		
Comments / Recor	mmendations:	$\angle$	)			
	ANALYSIS	Sulte   -	Dan ne Sam sled	Date Analyzed	Date Reported	Analyst
Nitrate-Nitrogen - SM 8039 1/15/2023 1/16/2023 TL						
Coliform Bacteria	Presence/Absence - 9	Absen	1/15/2023	1/16/2023	1/16/2023	TL
E. Coli Bacteria Presence/Absence - SM 92 R   bsent   1/15/2023   1/16/2023   1/16/2023   TL						TL
*mg/L = miligram	s per liter	_1				
Nitrate-Nitrogen		ER REPORT G KING WATER 10 mg/L are acce	<u>.</u>	<u>S</u>		
Coliform Bao Coli bacteria If bacteria is detected in the water, the well should be treated immediately.						
nitrate conta	// ·	eteria, not the act ination by soil or ag organism that or seldom exceed . The City-Cowl tory. The results	ual number of human or an is generally s 10 mg/l (ppi ey County H listed above	of bacteria col imal contact. pread through m). Higher midealth Departrare for water	onies. The properties of A positive real contant itrate levels ment is not a I	resence of esult for E. nination. nay indicate Kansas

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## Appendix E: Sample Invoice

