

Kansas Farm/Home*A*Syst Water Quality Protection Assessment

Landowner: _____
 Mailing address: _____

Home phone: (____) _____ - _____
 Work phone: (____) _____ - _____

Property address: _____

Property Legal description: _____

Water supply source: _____

Parcel ID # _____
 County _____
 Sewage disposal to: _____

WATER WELL MANAGEMENT

Well Location	Low Risk (rank 4)	Low-Mod Risk (rank 3)	Mod-High Risk (rank 2)	HIGH RISK (rank 1)	Your rank
Position in relation to pollution sources	Upslope from all; surface water diverted	Upslope or at grade; no runoff reaches well	Downslope from most; some runoff reaches well	Located in depression; runoff reaches well	
Separation from pollution sources	400+ ft.	200 – 400 ft.	50 – 199 ft.	LESS than 50 ft.	
Soil type &/or sub-surface protection	Soils fine-textured; water table > 50 ft.	Soils medium-textured; water table > 50 ft.	Soils medium to coarse texture; water table > 20 ft.	Soils medium to coarse texture; water table < 20 ft.	
Well Construction					
Age of well	Drilled <10 yr. ago	Drilled since 1974	Drilled 1960 – 1973	Drilled before 1960	
Well type	Drilled and grouted	Drilled, unknown grout	Driven or sand-point	Dug well	
Casing height	At least 12 in. above ground surface	Between ground surface and 12 in.	Even with ground surface	Below ground or in pit	
Casing depth	Extends to aquifer and grouted to aquifer	Extends to aquifer and grouted >20 ft.	Extends to aquifer; grout <20 ft. or missing	Does not extend to aquifer; no grout	
Condition of casing, cap, & pitless adapter	Casing intact; approved cap secured; vent screened; pitless adapter in place	Casing intact; approved cap secured; vent UNScreened	Casing intact; cap loose or UNapproved	Holes in casing or cap; cap missing or loose; no pitless adapter; CAN HEAR WATER RUNNING	
Backflow prevention	Air gaps provided and devices installed on all hose connections	Devices installed in all cases, but hose may be submerged (no air gap)	No devices, air gap usually provided but hose may be submerged	No efforts made; no devices; cross-connections observed	
Well Maintenance					
Routine inspections	Within last 3 yr.	3 to 10 yr. ago	More than 10 yr. ago	Unknown or never	
Water testing	Annually; tests meet standards	Every few years; some tests near to or below standards	Infrequent; bacteria usually present, nitrates high	Unknown or never; water discolored or odors noted after rain or snowmelt	
Abandoned/ Inactive Wells					
Presence/condition	There are no abandoned wells w/o sanitary seal; plugging logs available	Inactive well(s) w/san. seal, and pollution sources are distant	Inactive well(s) are cased and open; pollution sources are distant	Inactive well(s) are open, subject to storm drainage or near pollution sources	

Total of rankings _____ ÷ # of categories _____ = risk level for this category _____ which is _____ risk
 4.0-3.6=low risk; 3.5-2.6=low/ mod risk; 2.5-1.6-mod/ high risk; 1.5 or less = high risk

SOLID WASTE MANAGEMENT ASSESSMENT

Solid Waste Mgt.	Low Risk (rank 4)	Low-Mod Risk (rank 3)	Mod-High Risk (rank 2)	HIGH RISK (rank 1)	Your rank
Hazardous material (oil, paint, fuel, chemicals, etc.)	Used up or separated from trash; leftovers to HHW facility	Not separated, all trash to approved disposal facility	Not separated, disposal on farm >100 ft. down slope from water	Not separated, disposal on farm <100 ft. or upslope from water	
Recycling efforts	No recyclables discarded; reuse & share routinely	Some recyclables in trash, seldom reuse/ share		No recycling, sharing or reuse	
Burning waste (only if LEGAL)	Waste never burned	Only wood/paper burned commonly	Same plus garbage, glass, metal – No plastic	Burning all trash common – or – Burning illegally	

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SEWAGE SYSTEM MANAGEMENT ASSESSMENT

Design & Location	Low Risk (rank 4)	Low-Mod Risk (rank 3)	Mod-High Risk (rank 2)	HIGH RISK (rank 1)	Your rank
Discharges to:	Central collection	Private, on site system		Ground surface	
Septic tank capacity (_____ gal.)	Tank oversized for number of bedrooms	Tank size appropriate; water use conservative	Tank small but matches present water use	Tank small; excessive water use	
Lateral field capacity and condition	Field oversized; compaction avoided	Field size appropriate; compaction avoided	Field small, subject to compaction, no surfacing	Subject to compaction; evidence of past surfacing or presently muddy	
Lagoon freeboard	Consistently 2 to 3 ft. No discharge/seepage	Usually 2 to 3 ft. No discharge/seepage	Usually 1 to 2 ft. or >4 ft. No discharge/seepage	Consistently < one ft. freeboard or >4 ft.; discharging or seeping	
Lagoon fencing	Fencing and gate meet standards	Fence deteriorating, gate not secured	Fence/gate does not restrict access to pond	No fence or gate; animals present	
Lagoon vegetation	Grass dense, 6" max height; no cattails, etc.	Grass spotty, >6" high; very little aquatic plants	Grass spotty, 6 to 12"; cattails >2' from shore around pond	Trees on dike, grass >12"; aquatic plants uncontrolled	
Distance from wells	>400 ft. downslope	400 - 200 ft. downslope	199 - 50 ft. downslope	Upslope or <50 ft.	
Distance from water	>400 ft. downslope	400 - 200 ft. downslope	199 - 50 ft. downslope	Upslope or <50 ft.	
Age	5 years or less	6 to 12 years	13 to 20 years	>20 years	
Effluent (tank) filter	Present, cleaned 3 yr.	Present, not cleaned	Installed but now gone	No filter ever used	
Alarms	Operational on holding tanks or pump tanks			Not present or not operational	
Backflow protection in flood-prone areas	Backflow valve installed		Manual gate valve installed	No backflow valves or gate valves	
Maintenance					
Maps and records	Both in written form and available	Both known, not written or not available	Location unknown, few records	Location unknown, no records kept	
Tank pumping	<4 years ago	4 to 8 years ago	>8 years ago	Tank never pumped	
Tank condition upon inspection	No cracks or visible damage; baffles/tees in place; no leaks		Interior surface not hard when scraped	Damage visible; water level below outlet –or- Tank never inspected	
Surface water flow	All stormwater diverted from system		Some stormwater flows over system	No stormwater diversion	
Lateral field cover	Perennial grass dense	Grass cover spotty	Garden plantings	Trees/shrubs, no grass, hard surface or paving	
Type of influent wastes to system					
Solid wastes	No garbage grinder; no grease, coffee grounds	Occasional garbage grinder use but tank is oversized		Routine garbage grinder use; flush many paper/plastic products	
Treatment effective for wastewater type	Only normal household wastewater	Same, plus water softener discharges		Body shop, engine repair, wood finishing, etc.	
Chemicals	Occasional use of common household cleaners	Frequent use of common household cleaners	Occasionally put in fuels, solvents, & paints	Routinely put in fuels, solvents, paints, etc.	
Water conservation and use	All fixtures are low flow; no drips or leaks; laundry spaced through week	Some fixtures are low flow; no drips or leaks;	Standard fixtures; water use minimized; major water uses spaced through week	Standard fixtures; no effort to reduce water use; major water uses clustered over 1-2 days	

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PESTICIDE/FERTILIZER MANAGEMENT ASSESSMENT

Chemical Storage and Handling	Low Risk (rank 4)	Low-Mod Risk (rank 3)	Mod-High Risk (rank 2)	HIGH RISK (rank 1)	Your rank
Storage conditions	Covered on impermeable surface	Covered on clay soil or cracked concrete	Partial cover on loamy soils; spills not collected	No cover or on sandy soils; spills not collected	
Distance from well	>400 ft. downslope	150 – 400 ft. downslope	50 – 149 ft. downslope	<50 ft. or upslope	
Storage containers	Original, labeled, intact	Original, labels defaced	Old patched containers	NO labels, leaking	

Container disposal	Triple rinsed; returned to dealers/landfill	Triple rinsed; held on farm to recycle/landfill	Triple rinsed; disposal on farm	Unrinsed/partially filled; disposal on farm	
Spill protection plan	Written, family knows	Written, family unaware	Only phone #s posted	No plan or guidance	
Security	Separate locked area	Separate unlocked area	Enclosed, not separate	Open to theft/vandalism	
Spill containment	Concrete curbed pad; sump to storage	Concrete curbed pad; no sump	Concrete pad; no curb or sump	No pad; spills soak into ground	
Backflow prevention	Anti-backflow device; 6" air gap maintained	Anti-backflow device; hose end above water	No anti-backflow device; hose end above water	No anti-backflow device; hose end below waterline	
Water source	Separate water tank	Hydrant away from well	Hydrant near well	Obtained directly from well	
Pesticide in storage	None	<1gal. or <10#	1 - 55 gal. or 10 - 550#	>55 gal. or >550#	
Formulation	Only dry	Mostly dry	Mostly liquids	All liquids	
Liquid fertilizer storage	None	<55 gal.	55 - 1500 gal.	>1500 gal.	
How stored	Secondary containment impermeable	Secondary containment slightly permeable	No secondary containment; loamy soils	No secondary containment; sandy soils	
Dry fertilizer storage	None	<1 ton	1 to 20 tons	>20 tons	
How stored	Covered on impermeable surface	Covered on clay soil or cracked concrete	Partial cover on loamy soils; spills not collected	No cover or on sandy soils; spills not collected	

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LIQUID FUEL MANAGEMENT ASSESSMENT

Fuel Management	Low Risk (rank 4)	Low-Mod Risk (rank 3)	Mod-High Risk (rank 2)	HIGH RISK (rank 1)	Your rank
Distance from well	>400 ft. downslope	150 - 400 ft. downslope	50 - 149 ft. downslope	<50 ft. or upslope	
Spill protection	Auto shut-off, catch basin	Alarm, catch basin	Catch basin only	No protection	
Record keeping	Record use & fuel level monthly		Check use against amount purchased	No inventory control	
Security	Fenced and locked	Fenced, not locked		No fence, no lock	
Aboveground tanks	Secondary containment	Dike & clay liner	Clay lined pad, no dike	No containment	
Tank & hose integrity	Area clear for inspection; no deterioration	Storage obstructs visual inspection	Same, but tank rusted or hoses cracked	Leaks visible from tank or hoses	
Underground tanks	Synthetic or cathodic protection provided	Steel tank <15 yr. old coated interior	Same but 15 - 30 yr. old tank	Bare steel tank >15 yr. old or coated tank >30 yrs. old	
Underground piping	Cathodic protection, no leaks, check valve at pump, drains back to tank	Coated, no leaks, check valve at pump, drains back to tank	Coated, no leaks, drains back to tank, check valve at TANK	Corroded, leaks, does not drain back to tank. <i>ALL pressure pipe systems.</i>	
Tank integrity	Monthly check for leaks		Annual check for leaks	No testing	
Abandoned tank(s)	KDHE approved removal	Filled with inert material Contamination removed	Filled with inert material No test for contamination	Tank abandoned in-place or not properly removed	

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ANIMAL WASTE MANAGEMENT ASSESSMENT

Animal Wastes	Low Risk (rank 4)	Low-Mod Risk (rank 3)	Mod-High Risk (rank 2)	HIGH RISK (rank 1)	Your rank
Type of animal; method of disposal	Pet waste only; in trash or toilet	Hobby stock only or manure composted	Small seasonal producer; manure degrades insitu	>30 head year around; no routine management	
Distance from wells	>400 ft. downslope	200 - 400 ft. at grade	100 - 199 ft. upslope	<100 ft. upslope	
Water diversion	No water runs into lot	Little water runs into lot	Surface water enters lot	All surface and roof water	
Lot runoff	No CAFO lot or no runoff	Runoff collected/treated	Some runoff treated	No control of lot runoff	
Manure management	No CAFO lot; no abandoned/unused lots	Manure removed & properly field applied, spill plan developed	Manure applied 2x year; unused lots not cleaned	Manure rarely applied; abandoned lots not cleaned	
Manure application rate	Follows written plan; crop needs, soil & manure tests	Doesn't follow written plan, low rates not based on soil tests	No plan, high rates used, not based on soil tests	No plan, not based on soil or manure tests	
Application timing & site conditions	Incorporated or on plants Soil unsaturated, loose	Same, but soil rarely frozen or saturated	Applies whenever can; soil may be frozen/ wet	No incorporation; applied to tilled soils year around	
Dead animals	Rendering company	Composted on site	Buried on site	Unburied; in ditch or stream	

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