NOTICE

This scan only represents the application as filed. The information contained herein meets the requirements of K.A.R. 5-3-1 or K.A.R. 5-5-1, and has been found acceptable for filing in the office of the Chief Engineer. The application should not be considered to be a complete application as per K.A.R. 5-3-1b or K.A.R. 5-5-2a.



SEP 1 3 2023 1254 KS DEPT OF AGRICULTURE

KANSAS DEPARTMENT OF AGRICULTURE

Mike Beam, Secretary of Agriculture

DIVISION OF WATER RESOURCESEarl D. Lewis Jr., Chief Engineer

File Number 51105
This item to be completed by the Division of Water Resources.

APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

Filing Fee Must Accompany the Application (Please refer to Fee Schedule attached to this application form.)

To the Chief Engineer of the Division of Water Resources, Kansas Department of Agriculture, 1320 Research Park Drive, Manhattan, Kansas 66502:

				tan, Kansas 66	002.						
1.	Name of Applicant (Please Print): Tyler J. Peterson										
	Address: 1567 N 11										
	City: Minneapolis,			State KS	_ Zip Code	67467					
	Telephone Number: (783										
2.	The source of water is:	☐ surface water in		/at	ream)						
	OR	☑ groundwater in	Solomon	Piver (draina	ge basin)						
	Certain streams in Kansas when water is released from to these regulations on the and return to the Division o	n storage for use by date we receive you	water assuran ir application,	ce district membe	ers. If your ap	oplication is subject					
3.	The maximum quantity of w	vater desired is 2	70acre-	feet OR	gallons	per calendar year,					
	to be diverted at a maximum	m rate of 800	gallons pe	er minute OR	cub	oic feet per second.					
	Once your application has requested quantity of water maximum rate of diversion project and are in agreeme	under that priority nu and maximum quan	umber can <u>NO</u> tity of water a	T be increased. Fre appropriate ar	Please be cer id reasonable	tain your requested					
4.	The water is intended to be	e appropriated for (c	heck use intende	ed):							
	(a) Artificial Recharge	(b) 🛮 Irrigation	(c) 🗆	Recreational	(d) 🗆	Water Power					
	(e) ☐ Industrial	(f) Municipal	(g) 🗆	Stockwatering	(h) 🗆	Sediment Control					
	(i) ☐ Domestic	(j) Dewatering	(k) □	Hydraulic Dredg	ing (I) 🗆	Fire Protection					
	(m) Thermal Exchange	(n) Contaminat	tion Remediat	ion							
	YOU MUST COMPLETE AND AT SUBSTANTIATE YOUR REQUES										

	File No
The	location of the proposed wells, pump sites or other works for diversion of water is:
	e: For the application to be accepted, the point of diversion location must be described to at least a 10 acre tract, unless you specifically request a 60 day period of time in which to locate the site within a specifically described, minimal legal quarter section of land.
(A)	One in the \underline{SE} quarter of the \underline{SE} quarter of the \underline{SW} quarter of Section $\underline{12}$, more particularly
	described as being near a point <u>63</u> feet North and <u>7672</u> feet West of the Southeast corner of said section, in Township <u>10</u> South, Range <u>4</u> East West circle one), <u>OHawa</u> County, Kansas.
(B)	One in the quarter of the quarter of the quarter of Section, more particularly
	described as being near a point feet North and feet West of the Southeast corner of said
	section, in Township South, Range East/West (circle one), County, Kansas.
(C)	One in the quarter of the quarter of the quarter of Section, more particularly
	described as being near a point feet North and feet West of the Southeast corner of said
	section, in Township South, Range East/West (circle one), County, Kansas.
(D)	One in the quarter of the quarter of the quarter of Section, more particularly
	described as being near a point feet North and feet West of the Southeast corner of said
	section, in Township South, Range East/West (circle one), County, Kansas.
well	e source of supply is groundwater, a separate application shall be filed for each proposed well or battery of ls, except that a single application may include up to four wells within a circle with a quarter (¼) mile radius in same local source of supply which do not exceed a maximum diversion rate of 20 gallons per minute per well.
four not	attery of wells is defined as two or more wells connected to a common pump by a manifold; or not more than wells in the same local source of supply within a 300 foot radius circle which are being operated by pumps to exceed a total maximum diversion rate of 800 gallons per minute and which supply water to a common ribution system.
The	e owner of the point of diversion, if other than the applicant is (please print):
Ja	(name, address and telephone number)
	(name, address and telephone number)
land	must provide evidence of legal access to, or control of, the point of diversion from the landowner or the downer's authorized representative. Provide a copy of a recorded deed, lease, easement or other document or this application. In lieu thereof, you may sign the following sworn statement:
	I have legal access to, or control of, the point of diversion described in this application from the landowner or the landowner's authorized representative. I declare under penalty of perjury that the foregoing is true and correct.
	foregoing is true and correct. Executed on Scotember 10, 2073. Applicant's Signature
The	
Fail	applicant must provide the required information or signature irrespective of whether they are the landowner. The to complete this portion of the application will cause it to be unacceptable for filing and the application will returned to the applicant.
	(A) (B) (C) (D) If the well the A base found of the dist The Fail

The proposed project for diversion of water will consist of a batter of up to 4 wells (number of wells, pumps or dams, etc.) 7. and (was)(will be) completed (by) 5/10/2025 (Month/Day/Year - each was or will be completed)

The first actual application of water for the proposed beneficial use was or is estimated to be 10/10/2025. (Mo/Day/Year) 8.

9.	Will	I pesticide, fertilizer, or other foreign substance be injected into the water pumped from the diversion works?
	X	Yes ☐ No If "yes", a check valve shall be required.
	All	chemigation safety requirements must be met including a chemigation permit and reporting requirements.
10.	sub	ou are planning to impound water, please contact the Division of Water Resources for assistance, prior to omitting the application. Please attach a reservoir area capacity table and inform us of the total acres of face drainage area above the reservoir.
		ve you also made an application for a permit for construction of this dam and reservoir with the Division of the Resources? ☐ Yes ☒ No
	•	If yes, show the Water Structures permit number here
	•	If no, explain here why a Water Structures permit is not required
11.	sho	e application <u>must</u> be supplemented by a U.S.G.S. topographic map, aerial photograph or a detailed plat owing the following information. On the topographic map, aerial photograph, or plat, identify the center of the ction, the section lines or the section corners and show the appropriate section, township and range numbers. so, please show the following information:
	(a)	The location of the proposed point(s) of diversion (wells, stream-bank installations, dams, or other diversion works) should be plotted as described in Paragraph No. 5 of the application, showing the North-South distance and the East-West distance from a section line or southeast corner of section.
	(b)	If the application is for groundwater, please show the location of any existing water wells of any kind within $\frac{1}{2}$ mile of the proposed well or wells. Identify each existing well as to its use and furnish the name and mailing address of the property owner or owners. If there are no wells within $\frac{1}{2}$ mile, please advise us.
	(c)	If the application is for surface water, the names and addresses of the landowner(s) $\frac{1}{2}$ mile downstream and $\frac{1}{2}$ mile upstream from your property lines must be shown.
	(d)	The location of the proposed place of use should be shown by crosshatching on the topographic map, aerial photograph or plat.
	(e)	Show the location of the pipelines, canals, reservoirs or other facilities for conveying water from the point of diversion to the place of use.
		A 7.5 minute U.S.G.S. topographic map may be obtained by providing the section, township and range numbers to: Kansas Geological Survey, 1930 Constant, Campus West, University of Kansas, Lawrence, Kansas 66047.
12.	poi ma	t any application, appropriation of water, water right, or vested right file number that covers the same diversion ints or any of the same place of use described in this application. Also list any other recent modifications ide to existing permits or water rights in conjunction with the filing of this application.
	A	pplicant requests led days to provide drillers test log fordesired point
	4	pplicant requests 60 days to provide drillers test log fordesired point f diversion in SUKy of 12-105-4W in Ottawa County, KS.

File No. _____

				File No.		
13.	Furnish the following well information if the prop has not been completed, give information obtain				undwater.	If the well
	Information below is from: Test holes	☐ Wel	as completed	☐ Drillers	log attach	ed
	Well location as shown in paragraph No.	(A)	(B)	(C)	(D)	
	Date Drilled					
	Total depth of well					_
	Depth to water bearing formation					_
	Depth to static water level					_
	Depth to bottom of pump intake pipe					_
14.	The relationship of the applicant to the pro-	posed	place where t	he water will	be used	is that of
15.		e ueod	if other than the	annlicant is (r	ologeo priv	ot):
10.	James Peterson Trust #1, 133 5. Count (name, address Tandis Peterson Trust #1, 133 5. Co. (name, address	s and te	tes Dr. Salina	KS 67401	(785)8	22-1962
16.	The undersigned states that the information set this application is submitted in good faith.				r knowledç	ge and that
	Dated at Minaeapoli's , Kansas, t	his <u>10</u> 1	day of Se	stember (month)		(1023
				(month)		(year)
	Tyld Pate (Applicant Signature)					
	By (Agent or Officer Signature)					
	(Agent or Officer - Please Print)	•				

_____ Date: _____

Assisted by _____ (office/title)

FEE SCHEDULE

1. The fee for an application for a permit to appropriate water for beneficial use, except for domestic use, shall be (see paragraph No. 2 below if requesting storage):

ACRE-FEET	FEE
0-100	\$200.00
101-320	\$300.00
More than 320	\$300.00 plus \$20.00 for each additional 100 acre-feet or any part thereof.

2. The fee for an application in which storage is requested, except for domestic use, shall be:

ACRE-FEET	FEE
0-250	\$200.00
More than 250	\$200.00 plus \$20.00 for each additional 250 acre-feet of storage or any part thereof.

Note: If an application requests both direct use *and* storage, the fee charged shall be as determined under No. 1 or No. 2 above, whichever is greater, but not both fees.

3. The fee for an application for a permit to appropriate water for water power or dewatering purposes shall be \$100.00 plus \$200.00 for each 100 cubic feet per second, or part thereof, of the diversion rate requested.

te: The applicant shall notify the Chief Engineer and pay the statutorily required field inspection fee of \$400.00 when construction of the works for diversion has been completed, except that for applications filed on or after July 1, 2009, for works constructed for sediment control use and for evaporation from a groundwater pit for industrial use shall be accompanied by a field inspection fee of \$200.00.

MAKE CHECKS PAYABLE TO THE KANSAS DEPARTMENT OF AGRICULTURE

ATTENTION

A Water Conservation Plan may be required per K.S.A. 82a-733. A statement that your application for permit to appropriate water may be subject to the minimum desirable streamflow requirements per K.S.A. 82a-703a, b, and c may also be required from you. After the Division of Water Resources has had the opportunity to review your application, you will be notified whether or not you will need to submit a Water Conservation Plan. You also may be required to install a water flow meter or water stage measuring device on your diversion works prior to diverting water. There may be other special conditions or Groundwater Management District regulations that you will need to comply with if this application is approved.

CONVERSION FACTORS

1 acre-foot equals 325,851 gallons

1 million gallons equal 3.07 acre-feet



○ - ½ Mile Radius From Proposed Point of Diversion - Proposed place of use

No known wells within ½ mile of proposed point of diversion

All wells of any kind within ½ mile of the proposed point of diversion have been plotted

Signed Tyld Pole

Date 9/10/2023

IRRIGATION USE SUPPLEMENTAL SHEET

File No.

								_		. ,	_	7 /							
		1	Name	of Ap	oplica	nt (Pl	ease	Print)): <u>T</u> y	ler	<u>J.</u>	Pet	ers	01				_	
						addr of acı													rigated, and reof:
Land	owne	r of F	Recor	d		NAM													
					AD	DRES	ss:_ <u>l</u> .	33 9	5. (oun'	try	Es-	tate	200	·, S	a lin	ra k	15 (67401
S	Т	R		NI					W ¹ / ₄				V1/4				Ε1/4		TOTAL
	1	K	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	TOTAL
2	105	4W					40	40	40	40	40	40	40	40					320
IJ	105	4ω													40	40	38	40	128
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Land	owne	r of I	Recor	d		NAM													
					AD	DRES	SS:	33 :	5. C	unt	ry	Est	ate	s D	r. S	alin	a, K	5 6	7401
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			NE	NI NW	-	DRES SE	SS:			SE	NE	SV		SE SE	NE	SI	E¹/₄ SW	SE	TOTAL
s Z	T IDS	R YW	NE		E1/4			N	W ¹ / ₄			SV	V¹/4			SI	Ε1/4		
			NE		E1/4			N	W ¹ / ₄			SV	V¹/4		NE	SI	E¹/₄ SW	SE	TOTAL
			NE		E1/4			N	W ¹ / ₄			SV	V¹/4		NE	SI	E¹/₄ SW	SE	TOTAL
			NE		E1/4			N	W ¹ / ₄			SV	V¹/4		NE	SI	E¹/₄ SW	SE	TOTAL
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Z Land	owne	qω er of I	Recor	d NW	AD	NAM DRES	NE NE SS:	NV NW	8W SW	De-	NE Per	SV NW SV	N ¹ / _A SW	SE SE	NE 40	SI NW Yo	5 6	SE 40	TOTAL TOTAL

DWR 1-100.23 (7-7-00)

a.	Indicate the soils in the field(s) and their intake rates: * See attached Soil map packet*												
		Soil Name		Percent of field (%)	Inta Ra (in/l	ike te	Irri De	gation esign roup					
		То	tal:	100 %									
b.	Estin	nate th	e average land slope in	the field(s):		%							
	Estin	nate th	e maximum land slope i	n the field(s):		%							
C.	Туре	of irri	gation system you propo	ose to use (check one)):								
	X	Cent	er pivot	Center piv	ot - LEPA		"Big gun"	sprinkler					
		Grav	ity system (furrows)	Gravity sy	stem (borders)		_ Sideroll sp	rinkler					
	Oth	er, ple	ase describe:										
d.	Sys	tem de	sign features:										
	i.	Desc	ribe how you will contro	ol tailwater:									
	ii.	For s	prinkler systems:										
		(1)	Estimate the operating	g pressure at the distr	ribution system:	p	si						
		(2)	What is the sprinkler	package design rate?	gpm								
		(3)	What is the wetted dia	meter (twice the dista	nce the sprinkle	er throws wat	ter) of a sprin	kler on t					
			outer 100 feet of the s	ystem?	feet								
		(4)	Please include a copy	of the sprinkler pack	age design info	rmation.							
					d crop rotations								
e.	Cro	op(s) yo	ou intend to irrigate. Fr	case note any praime									
(Whe	at	grain sorgh		•								
(Whe	at lean											
(Whe Soyl Cor Ple	at ean ase de		termine when to irri		much water	r to apply (p	particula					

You may attach any additional information you believe will assist in informing the Division of the need for your request.

9/11/2023 (Date)

Kansas Department of Agriculture Division of Water Resources Earl D. Lewis, Jr., Chief Engineer 1320 Research Park Drive Manhattan, Kansas 66502

Re:	Application File No					
	Minimum Desirable Streamflow					

I understand that a Minimum Desirable Streamflow requirement has been established by the legislature for the source of supply to which the above referenced application applies.

I understand that diversion of water pursuant to this application will be subject to regulation any time Minimum Desirable Streamflow requirements are not being met.

I also understand that if this application is approved, there could be times, as determined by the Division of Water Resources, when I would not be allowed to divert water. I realize that this could affect the economics of my decision to appropriate water.

I am aware of the above factors, and with the knowledge thereof, request that the Division of Water Resources proceed with processing and approval, if possible, of the above referenced application.

1/10/

		1901 Vil	
		Signature of Applicant	
State of Kansas)	Tyler J Peterson	
) ss	(Print Applicant's Name)	
County of SALINE)		

I hereby certify that the foregoing instrument was signed in my presence and sworn to before me this $\sqrt{}$ day of $\sqrt{}$, $\sqrt{}$, $\sqrt{}$, $\sqrt{}$, $\sqrt{}$.

Notary Public

My Commission Expires: Que 01, 2025

Kathy J. Hollis
Notary Public
State of Kansas
My Appointment Expires June 1, 202

MINIMUM DESIRABLE STREAMFLOW FORM TO BE USED WHEN APPLICABLE WHEN FILING AN APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

The Kansas Legislature has established minimum desirable streamflows for the streams listed below. If your proposed diversion of water is going to be from one of these watercourses or adjacent alluvial aquifers, please complete the back side of this page and submit it along with your application for permit to appropriate water.

Arkansas River
Big Blue River
Chapman Creek
Chikaskia River
Cottonwood River
Delaware River
Little Arkansas River
Little Blue River
Marais des Cygnes River
Medicine Lodge River
Mill Creek (Wabaunsee Co. area)
Neosho River

Ninnescah River
North Fork Ninnescah River
Rattlesnake Creek
Republican River
Saline River
Smoky Hill River
Solomon River
South Fork Ninnescah
Spring River
Walnut River
Whitewater River



United States Department of Agriculture

VRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Ottawa County, Kansas



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

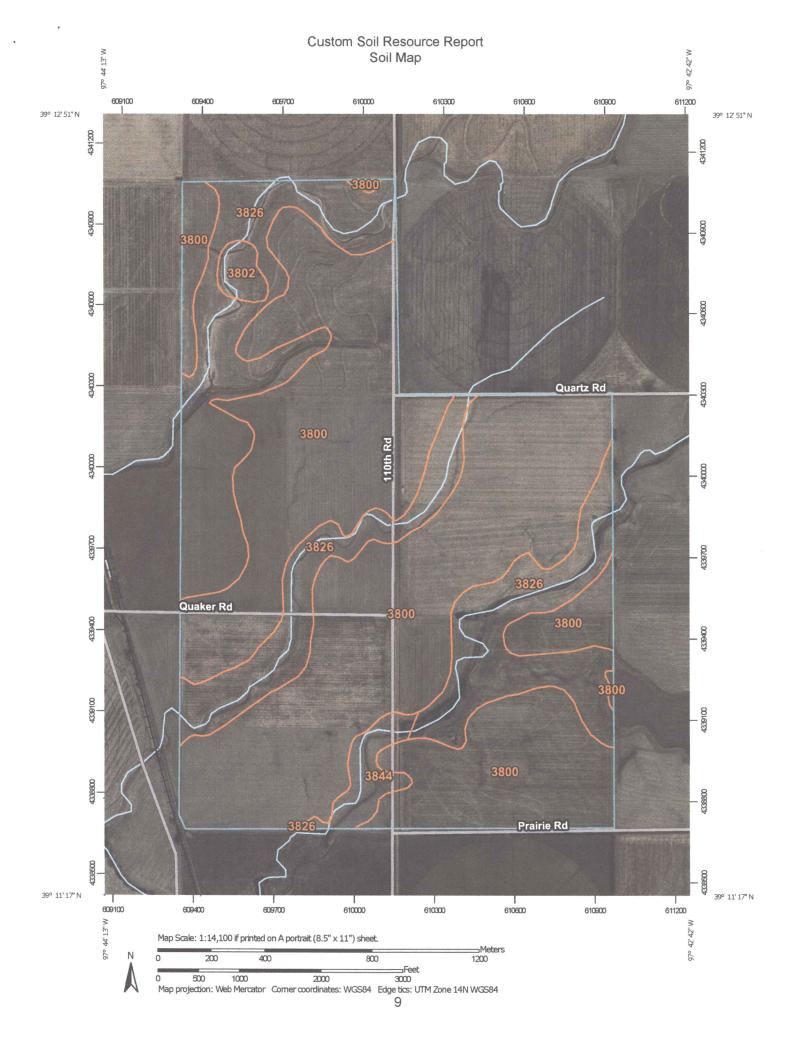
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Water Features

Transportation

Background

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

→ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Ottawa County, Kansas Survey Area Data: Version 20, Sep 13, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 16, 2022—Mar 28, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3800	Crete silt loam, 0 to 1 percent slopes, loess plains and breaks	538.4	67.2%
3802	Crete silty clay loam, 3 to 7 percent slopes, eroded, loess plains and breaks	8.1	1.0%
3826	Crete silt loam, 3 to 7 percent slopes	237.0	29.6%
3844	Geary silt loam, 3 to 7 percent slopes	17.1	2.1%
Totals for Area of Interest		800.6	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Ottawa County, Kansas

3800—Crete silt loam, 0 to 1 percent slopes, loess plains and breaks

Map Unit Setting

National map unit symbol: 2r9c8 Elevation: 1,310 to 1,640 feet

Mean annual precipitation: 27 to 34 inches Mean annual air temperature: 52 to 57 degrees F

Frost-free period: 165 to 200 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Crete and similar soils: 90 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Crete

Setting

Landform: Interfluves

Landform position (two-dimensional): Summit Landform position (three-dimensional): Interfluve

Down-slope shape: Linear Across-slope shape: Linear Parent material: Loess

Typical profile

Ap - 0 to 6 inches: silt loam
BA - 6 to 15 inches: silty clay loam
Bt1 - 15 to 25 inches: silty clay
Bt2 - 25 to 33 inches: silty clay
Bk - 33 to 40 inches: silty clay loam
C - 40 to 79 inches: silty clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: High (about 10.7 inches)

Interpretive groups

Land capability classification (irrigated): 2s Land capability classification (nonirrigated): 2s

Hydrologic Soil Group: C

Ecological site: R074XY107KS - Clay Hills

Hydric soil rating: No

Minor Components

Hastings

Percent of map unit: 5 percent

Landform: Interfluves

Landform position (two-dimensional): Summit Landform position (three-dimensional): Interfluve

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R074XY115KS - Loamy Hills

Hydric soil rating: No

Butler

Percent of map unit: 3 percent

Landform: Swales

Down-slope shape: Concave Across-slope shape: Linear

Ecological site: R074XY107KS - Clay Hills

Hydric soil rating: No

Geary

Percent of map unit: 1 percent

Landform: Interfluves

Landform position (two-dimensional): Summit Landform position (three-dimensional): Interfluve

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R074XY115KS - Loamy Hills

Hydric soil rating: No

Aquolls, occasionally ponded

Percent of map unit: 1 percent Landform: Depressions Down-slope shape: Concave Across-slope shape: Concave

Ecological site: R074XY132KS - Subirrigated

Hydric soil rating: Yes

3802—Crete silty clay loam, 3 to 7 percent slopes, eroded, loess plains and breaks

Map Unit Setting

National map unit symbol: 2r9cf Elevation: 1,310 to 1,640 feet

Mean annual precipitation: 27 to 34 inches Mean annual air temperature: 52 to 57 degrees F

Frost-free period: 165 to 200 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Crete, eroded, and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Crete, Eroded

Setting

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Convex Across-slope shape: Linear Parent material: Loess

Typical profile

Ap - 0 to 6 inches: silty clay loam
Bt1 - 6 to 15 inches: silty clay
Bt2 - 15 to 24 inches: silty clay
Bk - 24 to 30 inches: silty clay loam
C - 30 to 79 inches: silty clay loam

Properties and qualities

Slope: 3 to 7 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: High (about 10.6 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: R074XY107KS - Clay Hills

Hydric soil rating: No

Minor Components

Geary

Percent of map unit: 4 percent

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R074XY115KS - Loamy Hills

Hydric soil rating: No

Hobbs, occasionally flooded

Percent of map unit: 3 percent Landform: Drainageways Down-slope shape: Concave Across-slope shape: Linear

Ecological site: R074XY113KS - Loamy Floodplain

Hydric soil rating: No

Hastings

Percent of map unit: 1 percent

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Convex Across-slope shape: Linear

Ecological site: R074XY115KS - Loamy Hills

Hydric soil rating: No

Lancaster

Percent of map unit: 1 percent

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Convex Across-slope shape: Linear

Ecological site: R074XY115KS - Loamy Hills

Hydric soil rating: No

Aquolls, occasionally ponded

Percent of map unit: 1 percent Landform: Depressions Down-slope shape: Concave Across-slope shape: Concave

Ecological site: R074XY132KS - Subirrigated

Hydric soil rating: Yes

3826—Crete silt loam, 3 to 7 percent slopes

Map Unit Setting

National map unit symbol: 2r9cl Elevation: 1,310 to 1,640 feet

Mean annual precipitation: 27 to 34 inches Mean annual air temperature: 52 to 57 degrees F

Frost-free period: 165 to 200 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Crete and similar soils: 90 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Crete

Setting

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Convex Across-slope shape: Linear Parent material: Loess

Typical profile

Ap - 0 to 5 inches: silt loam
BA - 5 to 10 inches: silty clay loam
Bt1 - 10 to 21 inches: silty clay
Bt2 - 21 to 30 inches: silty clay
Bk - 30 to 38 inches: silty clay loam
C - 38 to 79 inches: silty clay loam

Properties and qualities

Slope: 3 to 7 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: High (about 10.5 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: R074XY107KS - Clay Hills

Hydric soil rating: No

Minor Components

Geary

Percent of map unit: 4 percent

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R074XY115KS - Loamy Hills

Hydric soil rating: No

Hobbs, occasionally flooded

Percent of map unit: 3 percent Landform: Drainageways Down-slope shape: Concave Across-slope shape: Linear

Ecological site: R074XY113KS - Loamy Floodplain

Hydric soil rating: No

Aquolls, occasionally ponded

Percent of map unit: 1 percent Landform: Depressions Down-slope shape: Concave Across-slope shape: Concave

Ecological site: R074XY132KS - Subirrigated

Hydric soil rating: Yes

Lancaster

Percent of map unit: 1 percent

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Convex Across-slope shape: Linear

Ecological site: R074XY115KS - Loamy Hills

Hydric soil rating: No

Hastings

Percent of map unit: 1 percent

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Convex Across-slope shape: Linear

Ecological site: R074XY115KS - Loamy Hills

Hydric soil rating: No

3844—Geary silt loam, 3 to 7 percent slopes

Map Unit Setting

National map unit symbol: 2r9ct Elevation: 1,130 to 2,770 feet

Mean annual precipitation: 23 to 34 inches Mean annual air temperature: 50 to 57 degrees F

Frost-free period: 150 to 200 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Geary and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Geary

Setting

Landform: Hillslopes

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear Parent material: Loess

Typical profile

Ap - 0 to 8 inches: silt loam

BA - 8 to 14 inches: silty clay loam
Bt1 - 14 to 33 inches: silty clay loam
Bt2 - 33 to 46 inches: silty clay loam
BC - 46 to 54 inches: silty clay loam
C - 54 to 79 inches: silt loam

Properties and qualities

Slope: 3 to 7 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20

to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 2 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: High (about 11.9 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: R074XY115KS - Loamy Hills

Hydric soil rating: No

Minor Components

Crete

Percent of map unit: 5 percent

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R074XY107KS - Clay Hills

Hydric soil rating: No

Hobbs, occasionally flooded

Percent of map unit: 4 percent Landform: Drainageways Down-slope shape: Concave Across-slope shape: Linear

Ecological site: R074XY113KS - Loamy Floodplain

Hydric soil rating: No

Hastings

Percent of map unit: 3 percent

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R074XY115KS - Loamy Hills

Hydric soil rating: No

Kipson

Percent of map unit: 1 percent

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R076XY128KS - Shallow Hills

Hydric soil rating: No

Lancaster

Percent of map unit: 1 percent

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R074XY115KS - Loamy Hills

Hydric soil rating: No

Aquolls, occasionally ponded

Percent of map unit: 1 percent

Landform: Depressions
Down-slope shape: Concave
Across-slope shape: Concave

Ecological site: R074XY132KS - Subirrigated

Hydric soil rating: Yes

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DATA ENTRY SYSTEM ID NUMBER SHEET

FILE NUMBER	51105					•	
APPLICANT PERSON ID & SEQ #		90552	PDIV ID	•	_	BATTERY IC)
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900 SW Jackson, Room 456 Topeka, KS 66612 785-296-3556

Mike Beam, Secretary

Laura Kelly, Governor

September 15, 2023

TYLER J PETERSON 1567 N 110TH RD MINNEAPOLIS KS 67467

RE: Application, File No(s). 51105

Dear Sir or Madam:

The Division of Water Resources (Division) has received your application(s) for a permit to appropriate water for beneficial use. Your application(s) has been assigned the file number(s) referenced above. Please be aware that the Division may have a large number of pending applications on hand at times and makes every attempt to process them in the order in which they are received. You will be contacted if additional information is required.

Please note, this letter only acknowledges receipt of your application(s) and does not guarantee approval. In accordance with the provisions of the Kansas Water Appropriation Act, the use of water as proposed prior to approval of the application(s) is unlawful.

Additional information about the process may be found on our website at <u>agriculture.ks.gov/divisions-programs/dwr</u>. If you have any other questions, please contact our office at 785-564-6640 or your local Stockton Field Office at 785-425-6787. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

Kris Neuhauser New Applications Lead

Water Appropriation Program