

Submit To:  
CHIEF ENGINEER  
Division of Water Resources  
Kansas Department of Agriculture  
1320 Research Park Drive  
Manhattan, KS 66502-5000  
<http://agriculture.ks.gov/dwr>

# APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

Water Resources  
Received  
KS Dept Of Agriculture



**STATUTORY FILING FEE MUST ACCOMPANY THIS APPLICATION**  
*Please refer to the Fee Schedule attached to this application form.*

File Number: **51394**

This item to be completed by the Division of Water Resources staff.

1. Name of Applicant: Douglas J & Starla F Koehn  
Address: 2079 Alamo  
City: Lehigh State: KS Zip Code: 67073  
Phone: 620-381-1263 Email: koehndoug20@gmail.com

**NEEDS STREAM NAME**

2. The source of water is:  surface water in Unnamed Tributary (stream)  
 groundwater in South Cottonwood River (drainage basin)

3. The maximum annual quantity of water desired is 454.978  acre-feet  gallons  
to be diverted at a maximum rate of ALL NAT FLOWS  gpm  c.f.s.  natural flows  natural evaporation  
 This project involves surface water storage and redirection. The maximum annual quantity of water desired to be  
rediverted is 318  acre-feet  gallons, at a rate of 2000  gpm  c.f.s.

**Quantities and rates should be flipped: (318 AF direct diversion at 2000 gpm & 454.978 AF storage and redirection at nat. flows).**

**Conversion Factors**

1 acre-foot (AF) = 325,851 gallons  
1 million gallons (mg) = 3.07 acre-feet (AF)  
1 cubic foot per second (c.f.s.) = 448.8 gallons per minute (gpm)

1/10/2025  
KJN

**IMPORTANT:** Once your application has been assigned a priority date and file number, the requested maximum rate of diversion and maximum requested annual quantity of water under that priority number can **NOT** be increased. Please be certain your requested maximum rate of diversion and maximum annual quantity of water are appropriate and reasonable for your proposed project.

4. The water is intended to be appropriated for the following use(s):  
 Artificial Recharge\*  Irrigation\*  Recreational\*  Water Power\*  
 Industrial\*  Municipal\*  Stockwatering\*  Sediment Control  
 Domestic  Dewatering  Hydraulic Dredging  Fire Protection  
 Thermal Exchange  Contamination Remediation

**\*IMPORTANT:** You **must** submit a supplemental form providing information to substantiate your request for the quantity of water listed in Item No. 3 for the intended use(s) referenced above.

<b>FOR OFFICE USE ONLY</b>																					
Code	RE2	FO	1	GMD	-	DUA	-	Use	IRR	Source	SW	County	MN	By	KJN	Date	1/10/24	Receipt Date	01/02/2025	Check #	
Fee \$				300				TR #													

File No. \_\_\_\_\_

5. The location(s) of the proposed diversion work(s) (well, pumpsite, etc.) are described below. Note that for the application to be accepted, the point of diversion location(s) **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. You can specify a nickname for the point of diversion via the A.K.A. line to help you identify it.

If the source of supply is groundwater, a separate application shall be filed for each proposed well or battery of wells, except that a single application may include up to four wells within a circle with a quarter (¼) mile radius in the same local source of supply which do not exceed a maximum diversion rate of 20 gallons per minute per well.

A battery of wells is defined as two or more wells connected to a common pump by a manifold; or not more than four wells in the same local source of supply within a 300-foot radius circle which are being operated by pumps not to exceed a total maximum diversion rate of 800gpm and which supply water to a common distribution system.

(A) One in the SE quarter of the NW quarter of the NE quarter of Section 30, more particularly described as being near a point 5108 feet North and 1340 feet West of the Southeast corner of said section, in Township 19 South, Range 1 E W, Marion County, KS. A.K.A: \_\_\_\_\_

(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 \_\_\_\_\_ E W, \_\_\_\_\_ County, KS. A.K.A: \_\_\_\_\_

(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 \_\_\_\_\_ E W, \_\_\_\_\_ County, KS. A.K.A: \_\_\_\_\_

(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 \_\_\_\_\_ E W, \_\_\_\_\_ County, KS. A.K.A: \_\_\_\_\_

(E) 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 \_\_\_\_\_ E W, \_\_\_\_\_ County, KS. A.K.A: \_\_\_\_\_

6. The proposed project for diversion of water will consist of 1 Dam  
(number of wells, pumps, dams, etc.)  
and was/will be completed on or by the following date: April 2025  
(date each was or will be completed)

7. The first actual application of water for the proposed beneficial use was or is estimated to be May 2025  
(Date)

8. List any application, appropriation of water, water right, or vested right file number that covers the same point(s) of diversion or any of the same place of use described in this application. Also list any other recent modifications made to existing permits or water rights in conjunction with the filing of this application.  
No other application will have same place of use or point of diversion as this app.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ 1/2/2025

File No. \_\_\_\_\_

9. Will pesticide, fertilizer, or other foreign substance be injected into the water pumped from the diversion works?  
 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. If you are planning to impound water, please contact DWR prior to submitting this application. Please attach a reservoir area capacity table and inform us of the total acres of surface drainage area above the reservoir.  
 Have you made an application for a permit for construction of this dam and reservoir with DWR?  Yes  No  
 If yes, write the Water Structures permit number here: \_\_\_\_\_

11. Furnish a detailed topographic or aerial map that depicts the following information:

The application **must** be supplemented by a topographic map, aerial photograph or a detailed plat showing the information described in A-D below.

- (A) The center of the section, the section lines or the section corners, and labels showing the appropriate section, township and range numbers, as well as a north arrow and scale,
- (B) The location of the proposed point(s) of diversion (wells, stream-bank installations, dams, or other diversion works) described in Item No. 5 of the application, showing the North-South distance and the East-West distance from a section line or southeast corner of section,
- (C) The location of the proposed place of use identified by crosshatching,
- (D) **For Groundwater Use**, the location of any existing water wells of any kind within 1/2 mile of the proposed well or wells and indicate for each well its type of use and the name and mailing address of the property owner or owners, (If there are no wells within 1/2 mile, please indicate that on the map.)

**For Surface Water Use**, the names and addresses of the landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines, and

- (E) The locations of proposed or existing dams, dikes, reservoirs, canals, pipelines, power houses, and any other structures for the purpose of storing, conveying, or using water.

12. For groundwater use, furnish copies of the driller's logs for all test holes or completed wells. Please ensure that the driller's logs provide depth to the static water level. If driller's logs cannot be obtained for an existing well, provide the following information:

Well location as shown in Item No. 5	(A)	(B)	(C)	(D)	(E)
Date drilled	_____	_____	_____	_____	_____
Total depth of well	_____	_____	_____	_____	_____
Depth to static water level	_____	_____	_____	_____	_____

13. The owner(s) of the point of diversion, if other than the applicant is:

APPLICANT

\_\_\_\_\_ (name, address, and phone)

\_\_\_\_\_ (name, address, and phone) 1/2/2025

File No. \_\_\_\_\_

14. The owner(s) of the property where the water is used, if other than the applicant, is:

APPLICANT

\_\_\_\_\_  
(name, address, and phone)

\_\_\_\_\_  
(name, address, and phone)

15. The relationship of the applicant to the proposed place where the water will be used is that of:

Owner     Agent     Tenant     Other: \_\_\_\_\_

16. A water use correspondent (WUC) must be designated. The WUC will be mailed the annual water use report, which must be filed with the Division by March 1 of each year. Failure to timely file an accurate water use report will subject the owner(s) to a civil fine of up to \$1,000 and potential suspension of the water appropriation or right. By signing this application, I verify that the owner(s) of the water right or permit have confirmed that the following person or agent should be designated as the WUC:

APPLICANT

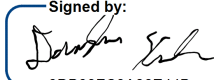
\_\_\_\_\_  
(name, address, and phone)

17. I 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. This could affect the economics of my decision to appropriate water. Situations where this might occur may include times when minimum desirable streamflow (MDS) requirements are not met, when Assurance District or Water Marketing releases are made from storage in federal reservoirs, when a Water Reservation Right upstream of a federal reservoir is administered, or when water rights administration becomes necessary to prevent impairment.

I declare, under penalty of perjury, that I have legal access to or control of, the point(s) of diversion described in this application from the landowner or the landowner's authorized representative.

By signing below, I verify that the information set forth above is true to the best of my knowledge, I agree with all statements made above, and that this application is submitted in good faith.

Signed by:



12/8/2024

90B99FC9A86E44B  
(Applicant Signature)

(Date)

\_\_\_\_\_  
(Applicant Name – please print)

\_\_\_\_\_  
(Applicant Title, if applicable – please print)

Assisted by Darcy Nightingale MWI LLC 11/27/2024  
\_\_\_\_\_  
(office/title) Date: \_\_\_\_\_

1/2/2025

**FEE SCHEDULE**

*Make checks payable to the Kansas Department of Agriculture.*

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

Million Gallons (mg)	Acre-Feet (AF)	Fee
≤ 32.585	≤ 100	\$200.00
32.586 - 104.272	100.1 – 320.0	\$300.00
> 104.272	> 320	\$300.00 plus \$20 for each additional 100AF (32.586mg) or any part thereof

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

Million Gallons (mg)	Acre-Feet (AF)	Fee
≤ 81.462	≤ 249.9	\$200.00
≥ 81.463	≥ 250	\$200.00 plus \$20 for each additional 100AF (32.586mg) 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 **waterpower** or **dewatering** use shall be \$100.00 plus \$200.00 for each 44,880 gallons per minute (100 c.f.s.), or part thereof, of the diversion rate requested.

**IMPORTANT NOTICE**

If this application is approved, the applicant shall notify the Chief Engineer when the diversion works (well, pump, reservoir, pit, etc.) has/have been completed via the *Notice of Completion of Diversion Works* form (DWR 1-203.11) and along with the statutorily required field inspection fee of:

- \$200.00 for sediment control use or groundwater pits for industrial use, or
- \$400.00 for all other uses made of water

Failure to complete the diversion works by the deadline specified in the *Approval of Application and Permit to Proceed* (or any subsequent extension of time of said deadline) and/or failure to submit the proper notice and field inspection fee will result in the dismissal of the appropriation and forfeiture of any priority associated with it.

**For assistance with this application, please contact the Division of Water Resources (DWR).**

**Manhattan HQ**

1320 Research Park Dr.  
Manhattan, KS 66502  
785-564-6638

**Topeka Field Office**

1131 SW Winding Rd, Ste 400  
Topeka, KS 66615  
785-296-5733

**Stafford Field Office**

300 S. Main St  
Stafford, KS 67578  
620-234-5311

**Stockton Field Office**

820 S. Walnut  
Stockton, KS 67669  
785-425-6787

**Garden City Field Office**

4532 W. Jones Ave, Ste B  
Garden City, KS 67846  
620-276-2901

**Helpful Sources of Information**

DWR Water Appropriation Program  
DWR Water Appropriation Forms  
KGS Water Well Completion Records  
DWR Structures Program

- <https://agriculture.ks.gov/divisions-programs/dwr/water-appropriation>
- <https://agriculture.ks.gov/divisions-programs/dwr/water-appropriation/water-appropriation-forms>
- <https://www.kgs.ku.edu/Magellan/WaterWell/index.html>
- <https://agriculture.ks.gov/divisions-programs/dwr/dam-safety/permit-requirements>

1/2/2025

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**IRRIGATION USE  
SUPPLEMENTAL SHEET**

File No. \_\_\_\_\_

Name of Applicant (Please Print): Doug Koehn

1. Please supply the name and address of each landowner, the legal description of the lands to be irrigated, and designate the actual number of acres to be irrigated in each forty acre tract or fractional portion thereof:

**Landowner of Record** NAME: Doug Koehn

ADDRESS: 2079 Alamo Lehigh, KS 67073

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
30	19	1E	24	18.5	38	39	37	21		14.5					39	19		15	265
																			Total 265

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<b>PDFs</b>
<a href="#">Mean Annual Precipitation</a>
<a href="#">Soil Cover Complex</a>

Mean Annual Precip, in	<b>32</b>
Soil Cover Complex No.	<b>80</b>
Drainage Area, acres	<b>571</b>
<b>Runoff at 20% Chance, AF</b>	<b>563.94</b>

DO NOT EDIT BELOW THIS LINE

% Chance Firm Coefficients			
	50%	80%	90%
a	0.5317	0.1216	0.0527
b	1.0815	1.2538	1.3547

%Chance Firm	Runoff, in	Comp. Runoff, in
50%	3.63	<b>3.63</b>
80%	1.13	<b>1.11</b>
90%	0.58	<b>0.60</b>
20%		<b>11.85</b>

Std. Dev. 90%	1.43
Std. Dev. 80%	1.39
Avg	1.41

Mean annual runoff for CN = 80, inches	5.90
Mean annual runoff for CN = 85, inches	6.81
Interp. Mean annual runoff for CN = 80, inches	5.90

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**STORAGE CALCULATIONS**

TOTAL RESERVOIR CAPACITY = 119.5 AF  
DIRECT USE = 318 AF  
TOTAL RESERVOIR SURFACE AREA = 21 ACRES  
1 YEAR NET EVAPORATION = 21 ACRES X 10"/12" = 17.5 AF  
STORAGE = 318 AF+ 119.5 + 17.5 = 454.978 AF

**UPSTREAM AND DOWNSTREAM LANDOWNERS**

Upstream -

#1) Davis Lamonte Prince Life Estate  
2756 Moccasin Rd  
Canton, KS 67428

#2) Gerald & Joan Jost  
1707 Goldenrod  
Hillsboro, KS 67063

Downstream -

#1) Van Goethem Family Trust  
2201 E Northview Ave  
McPherson, KS 67460

Rogelio H & Jessica J Caloca  
2121 Alamo  
Lehigh, KS 67073



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# NEW APP MAP

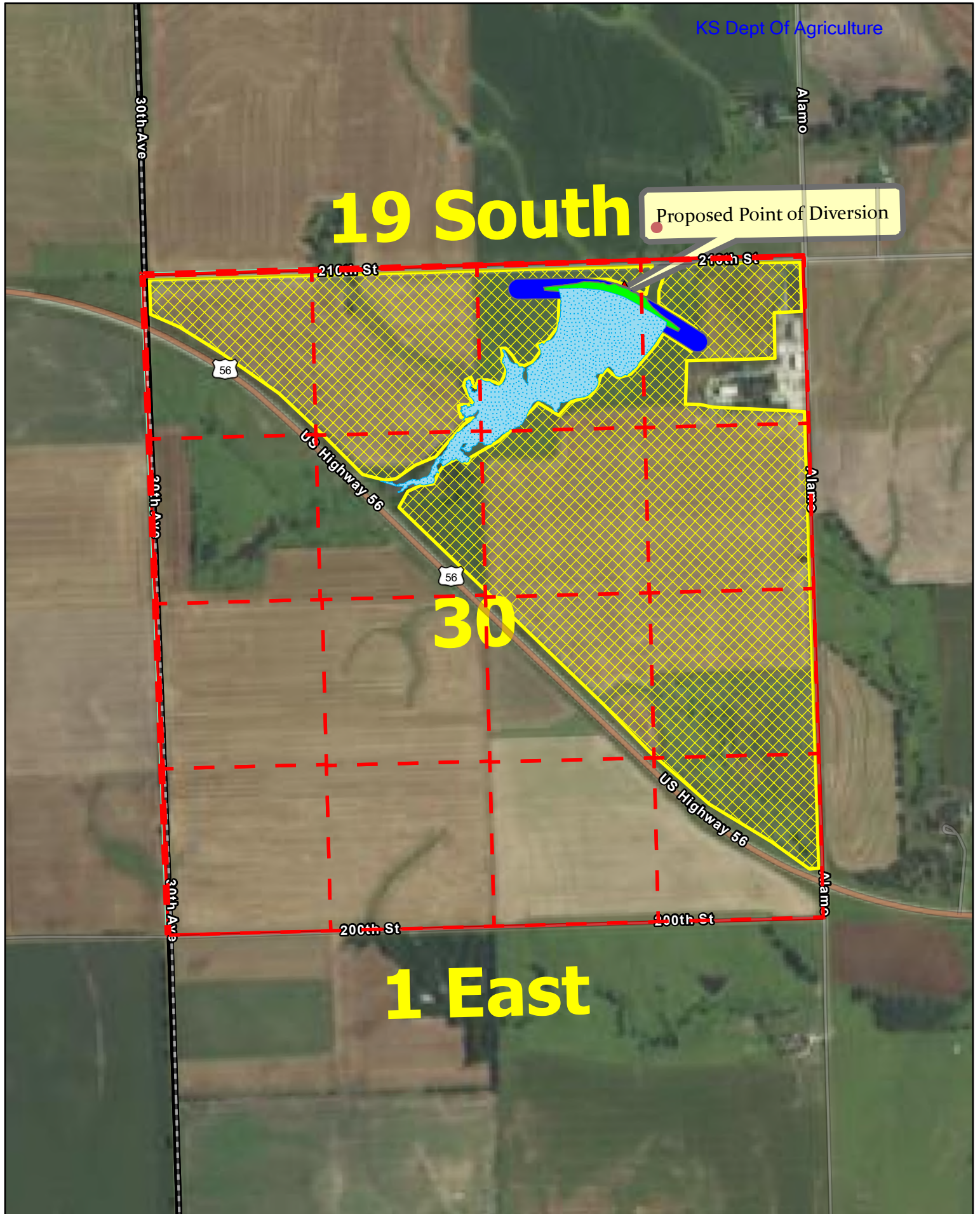
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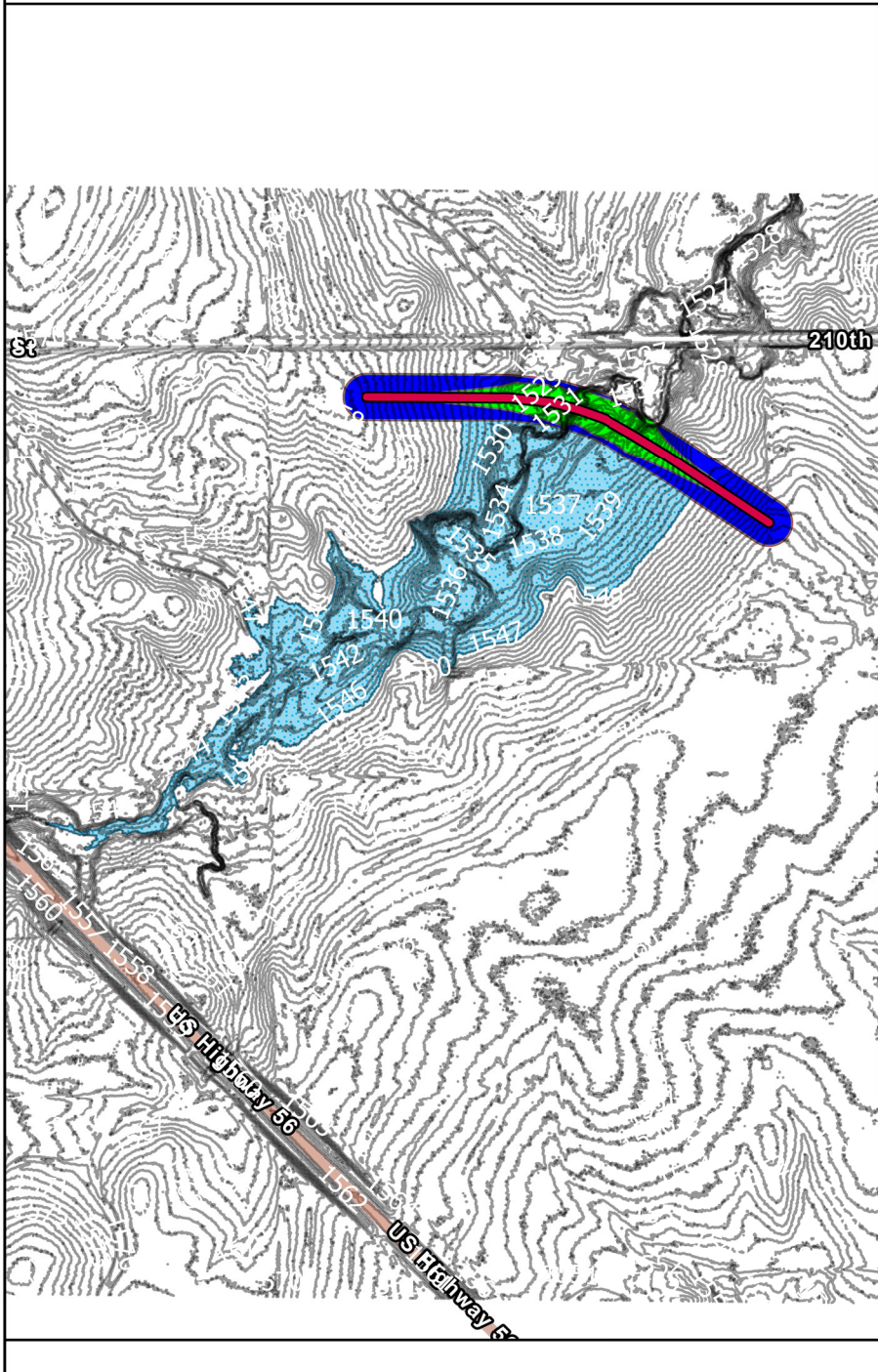
## 19 South

Proposed Point of Diversion



# TOPOGRAPHIC SURVEY

Compute Proposed Stream Obstruction Volume in  
NE1/4 Section 30 Township 19 South, Range 1 East,  
Marion County, Kansas

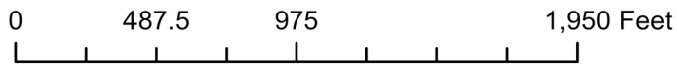


	Contour	Area_2D	Volume	cu/yd	Ac/ft	Embankment
	1529	4061.043	4072.663	150.8394	0.093515	
	1530	7854.917	9863.597	365.3184	0.226484	
	1531	14763.73	20358.98	754.0363	0.467474	
	1532	37316.83	46156.55	1709.502	1.059827	
	1533	62060.81	95383.32	3532.715	2.190152	
	1534	90281.49	171530.7	6352.991	3.938618	
	1535	130414.4	279355.9	10346.52	6.414455	
	1536	197142.5	442881.6	16403.02	10.16926	
	1537	273062.6	677295	25085	15.55177	
	1538	325419.3	976631.7	36171.55	22.42501	
	1539	381998.1	1330966	49295.03	30.56108	
	1540	436629.4	1740671	64469.31	39.96857	
	1541	504200.3	2208345	81790.56	50.7071	
	1542	585739	2752336	101938.4	63.19799	
	1543	679958.9	3384681	125358.5	77.71763	
Primary Spillway	1544	789077.8	4118159	152524.4	94.55946	
	1544.5	846848.2	4526521	167648.9	103.9361	
	1544.75	881344.3	4742403	175644.6	108.8931	
	1545	922001.4	4967643	183986.8	114.0649	
Emergency Spillway	1545.25	963854.8	5203396	192718.4	119.4782	
	1545.5	1003980	5449374	201828.7	125.1263	
	1545.75	1042804	5705285	211306.9	131.0024	
	1546	1079560	5970667	221135.8	137.096	
	1546.5	1147078	6527309	241752.2	149.8774	
	1547	1216217	7117993	263629.4	163.4404	
	1548	1369270	8411021	311519.3	193.1304	
Top of Structure	1549	1524761	9859001	365148.2	226.3783	30484

**Stream Obstruction**  
NE 1/4 Sec 30, T19S, R1E  
Marion County KS  
**Doug Koehn**

1/2/2025  
Water Resources Received  
KS Dept Of Agriculture

MWI, LLC  
1215 Oregon St  
Hiawatha, KS 66434  
785-740-1694  
darcy@mwivalley.com



General Notes for Site: No Field verification of LiDAR elevations performed.  
Front Toe of Stream Obstruction Elevation: 1387  
Assumed Top Structure width 12  
Assumed back slope 3:1  
Built to NRCS Specifications

Dwn By: Darcy Nightingale  
darcy@mwivalley.com  
Cell: 785-285-8065

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

# TOPOGRAPHIC SURVEY

Compute Proposed Stream Obstruction Volume in  
NE1/4 Section 30 Township 19 South, Range 1 East,  
Marion County, Kansas

1/2/2025

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KS Dept Of Agriculture



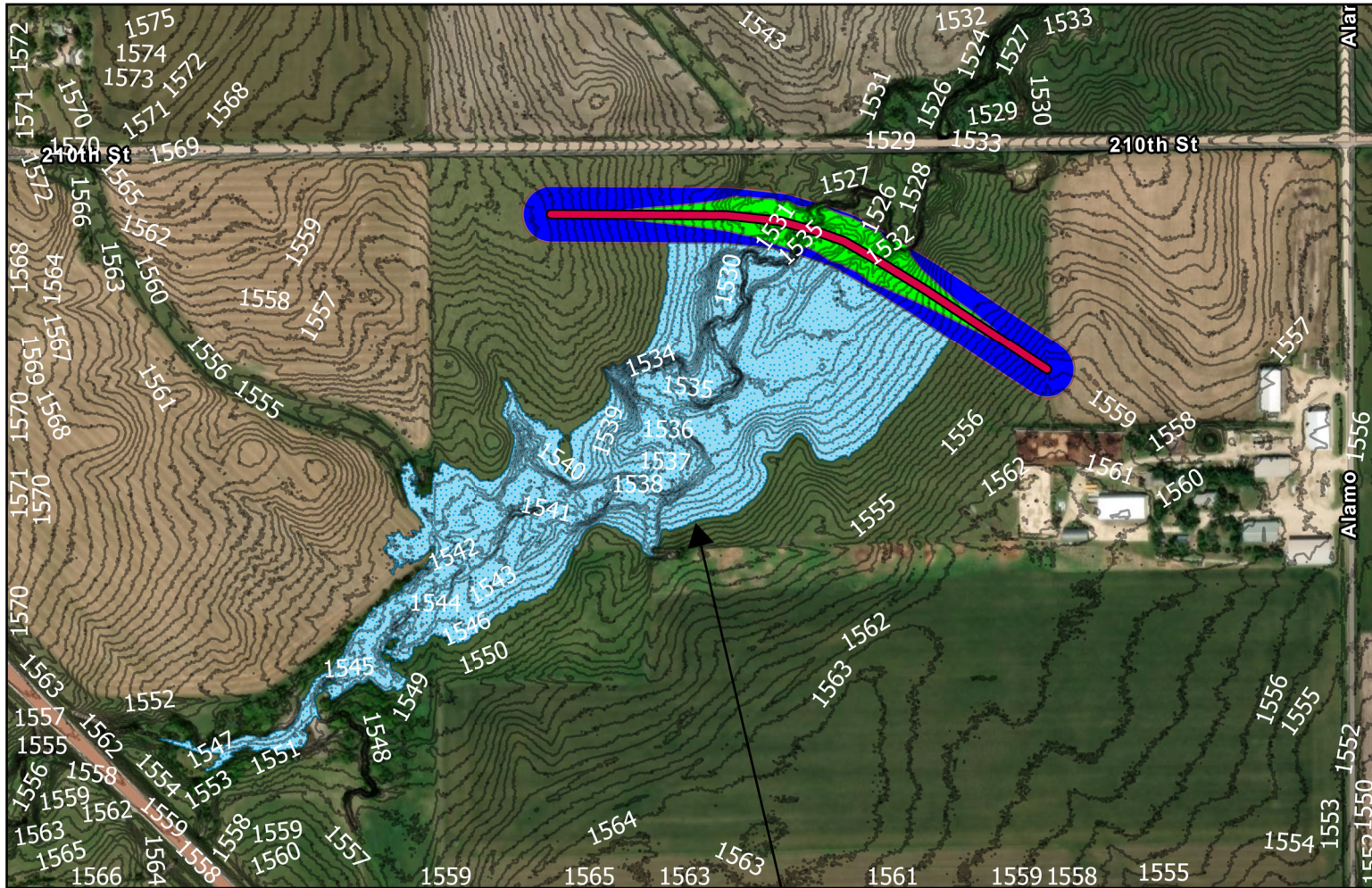
# MWI LLC

Stream Obstruction  
NE 1/4 Sec 30, T19S, R1E  
Marion County KS  
**Doug Koehn**

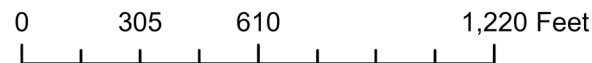
MWI, LLC  
1215 Oregon St  
Hiawatha, KS 66434  
785-740-1694  
darcy@mwivalley.com

Dwn By: Darcy Nightingale  
darcy@mwivalley.com  
Cell: 785-285-8065

Earthstar Geographics, Sources: Esri,  
TomTom, Garmin, FAO, NOAA, USGS, ©  
OpenStreetMap contributors, and the  
GIS User Community



Water Level at 1545.25



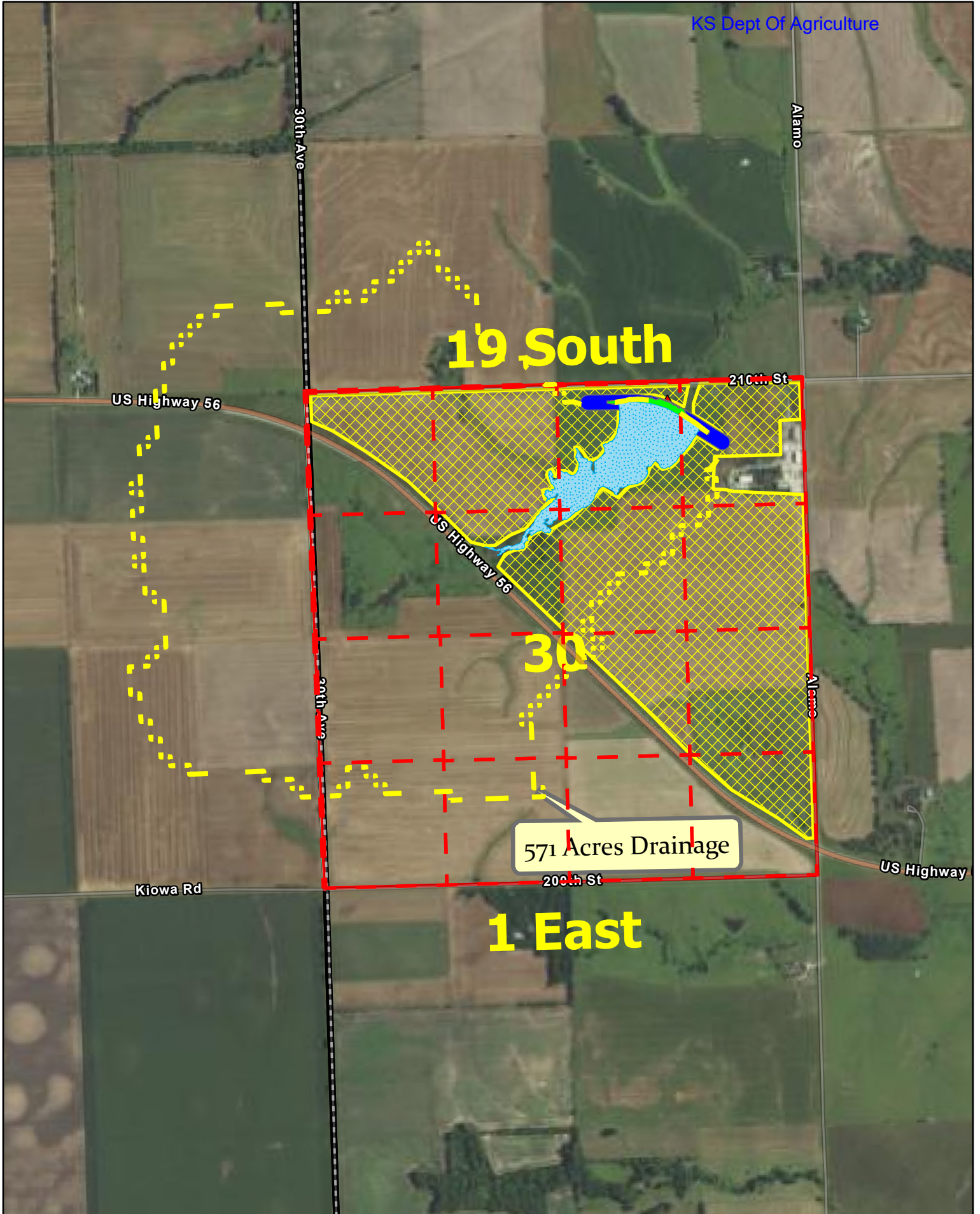


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# Drainage Map

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1320 Research Park Drive  
Manhattan, KS 66502  
785-564-6700  
www. agriculture.ks.gov



900 SW Jackson, Room 456  
Topeka, KS 66612  
785-296-3556

Mike Beam, Secretary

Laura Kelly, Governor

January 14, 2025

DOUGLAS J & STARLA F KOEHN  
2079 ALAMO  
LEHIGH KS 67073

RE: Application, File No(s). **51394**

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 [agriculture.ks.gov/divisions-programs/dwr](http://agriculture.ks.gov/divisions-programs/dwr). If you have any other questions, please contact our office at 785-564-6640 or your local Topeka Field Office at 785-296-5733. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

Kris Neuhauser  
New Applications Lead  
Water Appropriation Program