

11/5/2024
KJN



THE STATE OF KANSAS

WATER RESOURCES RECEIVED

OCT 31 2024

13:00

KS Dept of Agriculture

KANSAS DEPARTMENT OF AGRICULTURE
Mike Beam, Secretary of Agriculture

DIVISION OF WATER RESOURCES
Earl D. Lewis Jr., Chief Engineer

51349

File Number _____
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:

1. Name of Applicant (Please Print): City of Derby
Address: 611 N Mulberry Road
City: Derby State KS Zip Code 67037-3533
Telephone Number: (316) 788-1519

2. The source of water is: surface water in _____ (stream)
OR groundwater in Arkansas River Basin (drainage basin)

Certain streams in Kansas have minimum target flows established by law or may be subject to administration when water is released from storage for use by water assurance district members. If your application is subject to these regulations on the date we receive your application, you will be sent the appropriate form to complete and return to the Division of Water Resources.

3. The maximum quantity of water desired is 50 acre-feet OR XXXXXXXX gallons per calendar year, to be diverted at a maximum rate of 100 gallons per minute OR XXXXXXXX cubic feet per second.

Once your application has been assigned a priority, the requested maximum rate of diversion and maximum requested quantity of water under that priority number can **NOT** be increased. Please be certain your requested maximum rate of diversion and maximum quantity of water are appropriate and reasonable for your proposed project and are in agreement with the Division of Water Resources' requirements.

4. The water is intended to be appropriated for (Check use intended):
(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 Dredging (l) Fire Protection
(m) Thermal Exchange (n) Contamination Remediation

YOU **MUST** COMPLETE AND ATTACH ADDITIONAL DIVISION OF WATER RESOURCES FORM(S) PROVIDING INFORMATION TO SUBSTANTIATE YOUR REQUEST FOR THE AMOUNT OF WATER FOR THE INTENDED USE REFERENCED ABOVE.

For Office Use Only:
F.O. 2 GMD - Meets K.A.R. 5-3-1 (YES/NO) Use IRR Source G/S County SG By KJN Date 11/5/24
Code 826 Fee \$ 200 TR # _____ Receipt Date 10-31-24 Check # 223376

5. The location of the proposed wells, pump sites or other works for diversion of water is:

Note: 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 SW quarter of the SE quarter of the SE quarter of Section 18, more particularly described as being near a point 1315 feet North and 1350 feet West of the Southeast corner of said section, in Township 29 South, Range 2 East West (circle one), Sedgwick 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.

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 (1/4) 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 800 gallons per minute and which supply water to a common distribution system.

6. The owner of the point of diversion, if other than the applicant is (please print):

N/A
(name, address and telephone number)

N/A
(name, address and telephone number)

You must provide evidence of legal access to, or control of, the point of diversion from the landowner or the landowner's authorized representative. Provide a copy of a recorded deed, lease, easement or other document with 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.

Executed on _____, 20____. _____
Applicant's Signature

The applicant must provide the required information or signature irrespective of whether they are the landowner. Failure to complete this portion of the application will cause it to be unacceptable for filing and the application will be returned to the applicant.

7. The proposed project for diversion of water will consist of four (4) wells _____
(number of wells, pumps or dams, etc.)
and (was)(will be) completed (by) immediately after approval of this application _____
(Month/Day/Year - each was or will be completed)

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8. The first actual application of water for the proposed beneficial use was or is estimated to be immediately after well installation and development.
(Mo/Day/Year)

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- 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 the Division of Water Resources for assistance, prior to submitting the application. Please attach a reservoir area capacity table and inform us of the total acres of surface drainage area above the reservoir.

Have you also made an application for a permit for construction of this dam and reservoir with the Division of Water 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. The application must be supplemented by a U.S.G.S. topographic map, aerial photograph or a detailed plat showing the following information. On the topographic map, aerial photograph, or plat, identify the center of the section, the section lines or the section corners and show the appropriate section, township and range numbers. Also, 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 ½ 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 ½ mile, please advise us.
- (c) If the application is for surface water, the names and addresses of the landowner(s) ½ mile downstream and ½ 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. List any application, appropriation of water, water right, or vested right file number that covers the same diversion points 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.

The City previously applied for water rights at this location and was approved (50219-00). The water right was dismissed pending completion. The well was not completed since the well drilled was dry. Other domestic wells drilled in the area extended deeper than the well the City drilled and are able to yield 20-25 gpm. The City would like to install new well(s) as needed to get 100 gpm. The application notes up to four wells can be installed with one application- the City requests up to five wells if they can only supply 20 gpm each.

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13. Furnish the following well information if the proposed appropriation is for the use of groundwater. If the well has not been completed, give information obtained from test holes, if available.

Information below is from: Test holes Well as completed Drillers log attached

Well location as shown in paragraph No.	(A)	(B)	(C)	(D)
Date Drilled	<u>4/5/18</u>	_____	_____	_____
Total depth of well	<u>86</u>	_____	_____	_____
Depth to water bearing formation	_____	_____	_____	_____
Depth to static water level	<u>30</u>	_____	_____	_____
Depth to bottom of pump intake pipe	_____	_____	_____	_____

14. The relationship of the applicant to the proposed place where the water will be used is that of Owner
(owner, tenant, agent or otherwise)

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

(name, address and telephone number)

(name, address and telephone number)

16. The undersigned states that the information set forth above is true to the best of his/her knowledge and that this application is submitted in good faith.

Dated at _____, Kansas, this _____ day of _____, _____
(month) (year)

(Applicant Signature)

By _____
(Agent or Officer Signature)

(Agent or Officer - Please Print)

Assisted by _____ Date: _____
(office/title)

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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.

Note: 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

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DWR Form 1-100.23

Irrigation Use Supplemental Sheet

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IRRIGATION USE SUPPLEMENTAL SHEET

File No. _____

Name of Applicant (Please Print): City of Derby

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:** City of Derby
ADDRESS: 611 Mulberry Road, Suite 300

S	T	R	NE ¹ / ₄				NW ¹ / ₄				SW ¹ / ₄				SE ¹ / ₄				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
18	29S	2E												44.64					44.64

Landowner of Record **NAME:** _____
ADDRESS: _____

S	T	R	NE ¹ / ₄				NW ¹ / ₄				SW ¹ / ₄				SE ¹ / ₄				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Landowner of Record **NAME:** _____
ADDRESS: _____

S	T	R	NE ¹ / ₄				NW ¹ / ₄				SW ¹ / ₄				SE ¹ / ₄				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

2. Please complete the following information for the description of the operation for the irrigation project. Attach supplemental sheets as needed.

a. Indicate the soils in the field(s) and their intake rates:

Soil Name	Percent of field (%)	Intake Rate (in/hr)	Irrigation Design Group
Clay	47		
Sand	14.5		
Shale	33.7		
Limestone	4.8		
Total:	100 %		

b. Estimate the average land slope in the field(s): 2 %

Estimate the maximum land slope in the field(s): 33.3 %

c. Type of irrigation system you propose to use (check one):

- Center pivot Center pivot - LEPA "Big gun" sprinkler
 Gravity system (furrows) Gravity system (borders) Sideroll sprinkler

Other, please describe: commercial sprinkler system

d. System design features:

i. Describe how you will control tailwater:

N/A - sprinkler system

ii. For sprinkler systems:

(1) Estimate the operating pressure at the distribution system: 90 psi

(2) What is the sprinkler package design rate? 100 gpm

(3) What is the wetted diameter (twice the distance the sprinkler throws water) of a sprinkler on the outer 100 feet of the system? N/A feet

(4) Please include a copy of the sprinkler package design information.

e. Crop(s) you intend to irrigate. Please note any planned crop rotations:

Fescue and native grass.

f. Please describe how you will determine when to irrigate and how much water to apply (particularly important if you do not plan a full irrigation).

Full Irrigation. The rate will vary as needed to sustain established vegetation.

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

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DWR Form 1-100.25

Recreational Use Supplemental Sheet

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**RECREATIONAL USE
SUPPLEMENTAL SHEET**

File No. _____

Name of Applicant (Please Print): City of Derby

1. Please indicate type of recreational use (boating, fishing, swimming, etc.): Aesthetic amenity to park and storm water detention.

2. Please summarize how the water will be used and justify the quantity of water requested: _____
Water will be used to fill the pond to a static pool volume of 1295.5.

Recreational Use – Net Evaporable Loss of Pond:

$$\frac{20" \text{ Evaporable Loss}}{12 \frac{in}{ft}} \times 5.35 \text{ AC Pond Surface Area} = 8.92 \text{ AC - FT}$$

3. Please complete the following table showing estimated future water requirements:

ESTIMATED FUTURE WATER DIVERTED/STORED	
NEXT 5 YEARS	WATER TO BE DIVERTED (ACRE-FEET OR GALLONS)
Year 1	8.92 AC-FT
Year 2	8.92 AC-FT
Year 3	8.92 AC-FT
Year 4	8.92 AC-FT
Year 5	8.92 AC-FT

Please attach any additional information, tables, or curves showing past, present and estimated future water requirements to substantiate the amount of water requested.

4. Please designate the legal description of the location where the water is to be used by providing the fractional part of the Section, Township and Range.

All water will be used in the N 1/2, SE1/4 of Section 18, T29S, R2E. See attachment 3.

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

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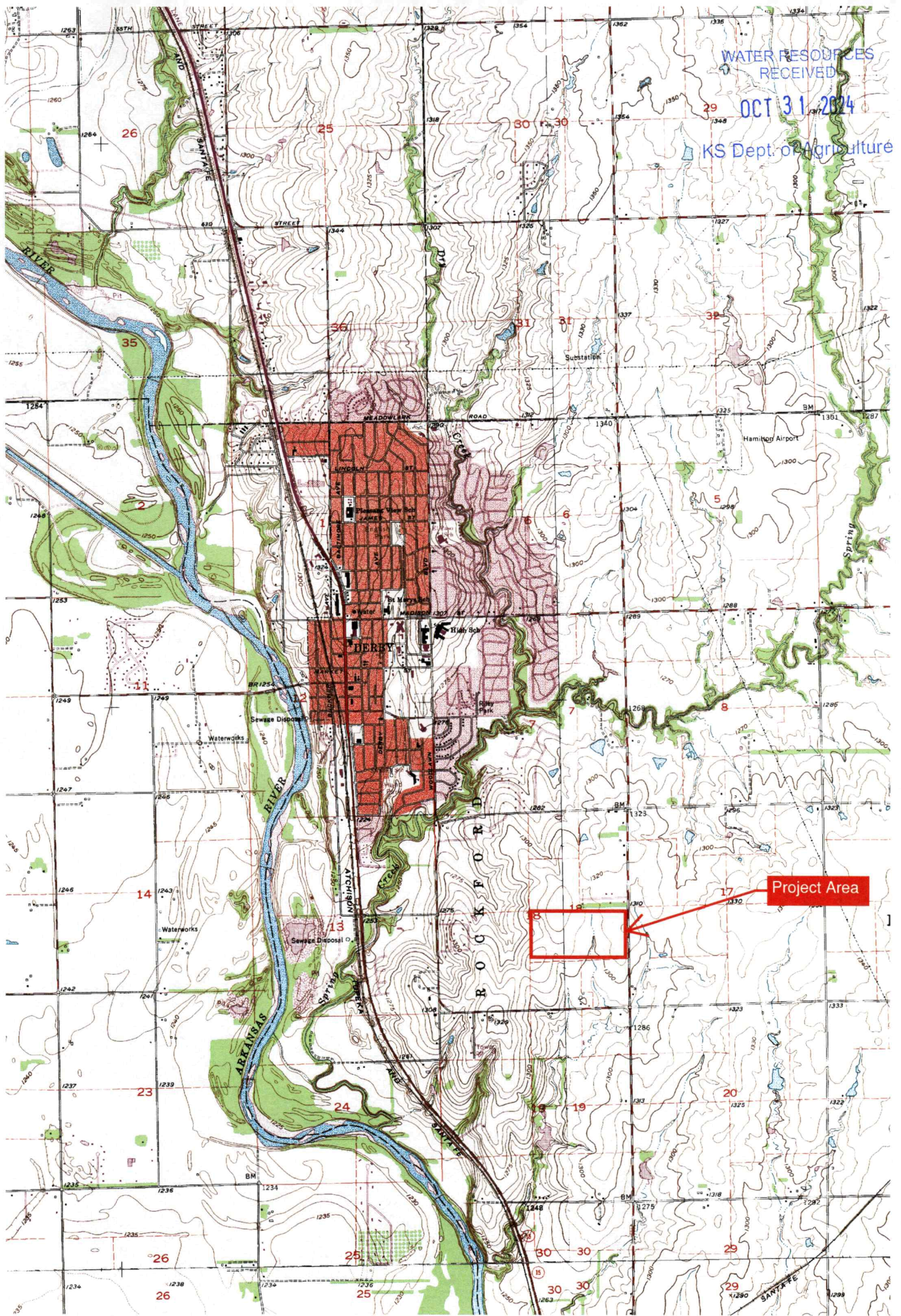
Attachment No. 1

USGS Map

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Attachment No. 2

Water Right Well Spacing Map

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Recreational Use – Net Evaporable Loss of Pond:

$$\frac{20" \text{ Evaporable Loss}}{12 \frac{\text{in}}{\text{ft}}} \times 5.35 \text{ AC Pond Surface Area} = 8.92 \text{ AC} - \text{FT}$$

Irrigation Use:

$$\frac{1.3 \text{ AC} - \text{FT}}{\text{AC}} \times 44.64 \text{ Irrigated AC} = 58.03 \text{ AC} - \text{FT}$$

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Attachment No. 3

Place of Use Map and Calculations

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Attachment No. 4

Well Driller's Log

DECARSKY PARK – PHASE 2 DERBY, KANSAS

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OCT 31 2024
13:00
KS Dept. of Agriculture

APPLICATION FOR PERMIT TO APPROPRIATE
WATER FOR BENEFICIAL USE – GROUND AND
SURFACE WATER

PEC PROJECT NO. 35-231214-000-0180

OCTOBER 2024

PREPARED BY:

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 S. TOPEKA
WICHITA, KANSAS

October 07, 2024

Kansas Department of Agriculture
Division of Water Resources
1320 Research Park Drive
Manhattan, KS 66502

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OCT 31 2024

KS Dept. of Agriculture

Reference: Decarsky Park – DWR Groundwater Permit
Application for Permit to Appropriate Water for Beneficial Use
PEC Project No. 35-231214-000-0180

To Whom It May Concern,

This letter, along with the accompanying documentation is provided to solicit comments from DWR for the permits associated with the proposed construction of a water well in Decarsky Park, Derby, Sedgwick County, Kansas. Accordingly, the following items are included with this letter:

1. DWR Form 1-100 – Application for Permit to Appropriate Water for Beneficial Use
2. DWR Form 1-100.23 – Irrigation Use Supplemental Sheet
3. DWR Form 1-100.25 – Recreational Use Supplemental Sheet
4. Attachment No. 1 – USGS Map
5. Attachment No. 2 – Water Right Well Spacing Map
6. Attachment No. 3 – Place of Use Map
7. Attachment No. 4 – Well Driller's Log

In accordance with DWR 1-100, a check in the amount of \$200 is included and made payable to the Kansas Department of Agriculture as indicated.

If you have any questions or require additional information in order to make a determination, please contact me by phone at (316)206-1343 or by email at nicole.franken@pec1.com.

Respectfully,

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.



Nicole Franken, P.E.
Design Engineer

NDF:ev

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DWR Form 1-100

Application for Permit to Appropriate Water for Beneficial Use

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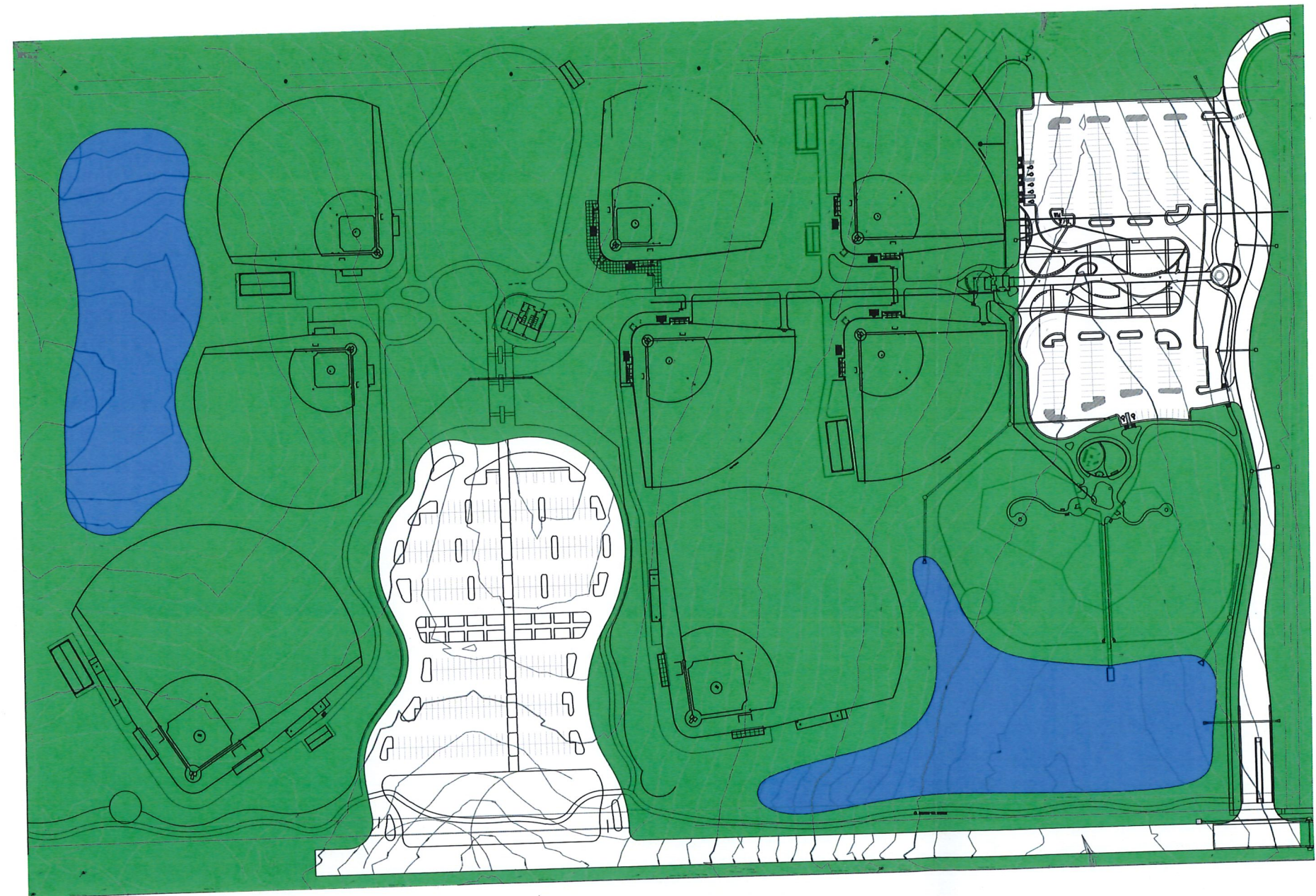
OCT 29 2024

KS Dept. of Agriculture

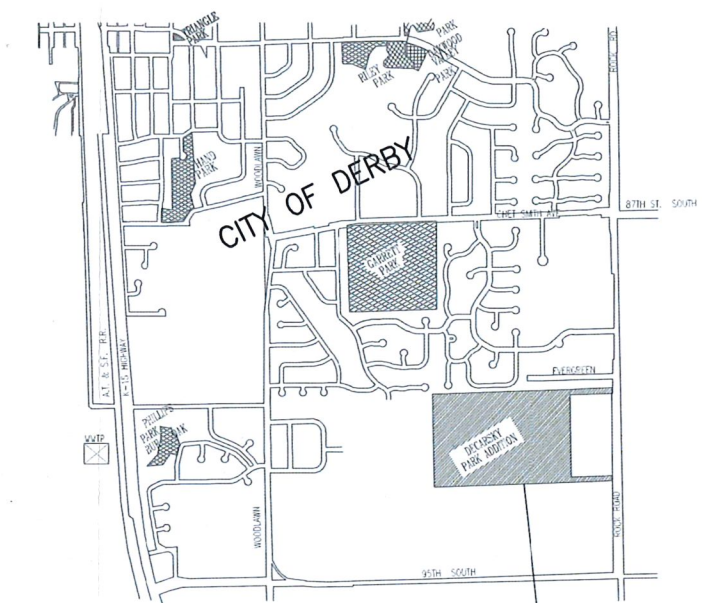
WATER RESOURCES RECEIVED

OCT 31 2024

KS Dept. of Agriculture



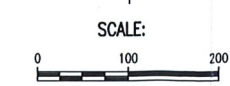
LOCATION MAP



PROJECT AREA

LEGEND

- RECREATIONAL PLACE OF USE (SURFACE AREA = 5.35 AC)
- IRRIGATION PLACE OF USE (AREA = 44.64 AC)



No.	Revision	By	Date
CITY OF DERBY SEDGWICK COUNTY, KANSAS PLACE OF USE DECARSKY PARK ADDITION			
PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	Job No. 35-170828-000	SH. 1 of 1	
Drawn by	Date		

Saved: 04-16-2018 4:12:51 PM by GAGE SCHEER
 Plot Scale: 1" = 0'-0" 04-16-2018 4:13:04 PM by GAGE SCHEER
 U:\Projects-Civil\2017\170828\000\Misc\Drawings\Miscellaneous\170828-000 Water Appropriation Areas

DECARSKY PARK – PHASE 2 DERBY, KANSAS

APPLICATION FOR PERMIT TO APPROPRIATE
WATER FOR BENEFICIAL USE – GROUND AND
SURFACE WATER

PEC PROJECT NO. 35-231214-000-0180

OCTOBER 2024

PREPARED BY:

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 S. TOPEKA
WICHITA, KANSAS

October 07, 2024

Kansas Department of Agriculture
Division of Water Resources
1320 Research Park Drive
Manhattan, KS 66502

Reference: Decarsky Park – DWR Groundwater Permit
Application for Permit to Appropriate Water for Beneficial Use
PEC Project No. 35-231214-000-0180

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Respectfully,

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.



Nicole Franken, P.E.
Design Engineer

NDF:ev

DWR Form 1-100

Application for Permit to Appropriate Water for Beneficial Use

THE STATE OF KANSAS



KANSAS DEPARTMENT OF AGRICULTURE
Mike Beam, Secretary of Agriculture

DIVISION OF WATER RESOURCES
Earl D. Lewis Jr., Chief Engineer

File Number
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1320 Research Park Drive, Manhattan, Kansas 66502:

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Address: 611 N Mulberry Road
City: Derby State KS Zip Code 67037-3533
Telephone Number: (316) 788-1519

2. The source of water is:
[] surface water in (stream)
OR
[X] groundwater in Arkansas River Basin (drainage basin)

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(a) [] Artificial Recharge (b) [X] Irrigation (c) [X] Recreational (d) [] Water Power
(e) [] Industrial (f) [] Municipal (g) [] Stockwatering (h) [] Sediment Control
(i) [] Domestic (j) [] Dewatering (k) [] Hydraulic Dredging (l) [] Fire Protection
(m) [] Thermal Exchange (n) [] Contamination Remediation

YOU MUST COMPLETE AND ATTACH ADDITIONAL DIVISION OF WATER RESOURCES FORM(S) PROVIDING INFORMATION TO SUBSTANTIATE YOUR REQUEST FOR THE AMOUNT OF WATER FOR THE INTENDED USE REFERENCED ABOVE.

For Office Use Only:
F.O. GMD Meets K.A.R. 5-3-1 (YES / NO) Use Source G / S County By Date
Code Fee \$ TR # Receipt Date Check #

5. The location of the proposed wells, pump sites or other works for diversion of water is:

Note: 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 SW quarter of the SE quarter of the SE quarter of Section 18, more particularly described as being near a point 1315 feet North and 1350 feet West of the Southeast corner of said section, in Township 29 South, Range 2 East West (circle one), Sedgwick 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.

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 (1/4) 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 800 gallons per minute and which supply water to a common distribution system.

6. The owner of the point of diversion, if other than the applicant is (please print):

N/A

(name, address and telephone number)

N/A

(name, address and telephone number)

You must provide evidence of legal access to, or control of, the point of diversion from the landowner or the landowner's authorized representative. Provide a copy of a recorded deed, lease, easement or other document with 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.

Executed on October 09, 2024. _____
Applicant's Signature

The applicant must provide the required information or signature irrespective of whether they are the landowner. Failure to complete this portion of the application will cause it to be unacceptable for filing and the application will be returned to the applicant.

7. The proposed project for diversion of water will consist of four (4) wells _____
(number of wells, pumps or dams, etc.)
and (was)(will be) completed (by) immediately after approval of this application
(Month/Day/Year - each was or will be completed)

File No. _____

8. The first actual application of water for the proposed beneficial use was or is estimated to be immediately after
well installation and development
(Mo/Day/Year) _____.

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 the Division of Water Resources for assistance, prior to submitting the application. Please attach a reservoir area capacity table and inform us of the total acres of surface drainage area above the reservoir.

Have you also made an application for a permit for construction of this dam and reservoir with the Division of Water 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. The application must be supplemented by a U.S.G.S. topographic map, aerial photograph or a detailed plat showing the following information. On the topographic map, aerial photograph, or plat, identify the center of the section, the section lines or the section corners and show the appropriate section, township and range numbers. Also, 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 ½ 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 ½ mile, please advise us.
- (c) If the application is for surface water, the names and addresses of the landowner(s) ½ mile downstream and ½ 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. List any application, appropriation of water, water right, or vested right file number that covers the same diversion points 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.

The City previously applied for water rights at this location and was approved (50219-00). The water right was dismissed pending completion. The well was not completed since the well drilled was dry. Other domestic wells drilled in the area extended deeper than the well the City drilled and are able to yield 20-25 gpm. The City would like to install new well(s) as needed to get 100 gpm. The application notes up to four wells can be installed with one application- the City requests up to five wells if they can only supply 20 gpm each.

13. Furnish the following well information if the proposed appropriation is for the use of groundwater. If the well has not been completed, give information obtained from test holes, if available.

Information below is from: Test holes Well as completed Drillers log attached

Well location as shown in paragraph No.	(A)	(B)	(C)	(D)
Date Drilled	<u>4/5/18</u>	_____	_____	_____
Total depth of well	<u>86</u>	_____	_____	_____
Depth to water bearing formation	_____	_____	_____	_____
Depth to static water level	<u>30</u>	_____	_____	_____
Depth to bottom of pump intake pipe	_____	_____	_____	_____

14. The relationship of the applicant to the proposed place where the water will be used is that of Owner
(owner, tenant, agent or otherwise)

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

(name, address and telephone number)

(name, address and telephone number)

16. The undersigned states that the information set forth above is true to the best of his/her knowledge and that this application is submitted in good faith.

Dated at Derby, Kansas, this 09 day of October, 2024.
(month) (year)



(Applicant Signature)

By _____
(Agent or Officer Signature)

Kiel Margus

(Agent or Officer - Please Print)

Assisted by _____ Date: _____
(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.

Note: 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

DWR Form 1-100.23

Irrigation Use Supplemental Sheet

IRRIGATION USE SUPPLEMENTAL SHEET

File No. _____

Name of Applicant (Please Print): City of Derby

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:** City of Derby
ADDRESS: 611 Mulberry Road, Suite 300

S	T	R	NE ¹ / ₄				NW ¹ / ₄				SW ¹ / ₄				SE ¹ / ₄				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
18	29S	2E																44.64	

Landowner of Record **NAME:** _____
ADDRESS: _____

S	T	R	NE ¹ / ₄				NW ¹ / ₄				SW ¹ / ₄				SE ¹ / ₄				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Landowner of Record **NAME:** _____
ADDRESS: _____

S	T	R	NE ¹ / ₄				NW ¹ / ₄				SW ¹ / ₄				SE ¹ / ₄				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

2. Please complete the following information for the description of the operation for the irrigation project. Attach supplemental sheets as needed.

a. Indicate the soils in the field(s) and their intake rates:

Soil Name	Percent of field (%)	Intake Rate (in/hr)	Irrigation Design Group
Clay	47		
Sand	14.5		
Shale	33.7		
Limestone	4.8		
Total:	100 %		

b. Estimate the average land slope in the field(s): 2 %

Estimate the maximum land slope in the field(s): 33.3 %

c. Type of irrigation system you propose to use (check one):

- Center pivot Center pivot - LEPA "Big gun" sprinkler
 Gravity system (furrows) Gravity system (borders) Sideroll sprinkler

Other, please describe: commercial sprinkler system

d. System design features:

i. Describe how you will control tailwater:

N/A - sprinkler system

ii. For sprinkler systems:

(1) Estimate the operating pressure at the distribution system: 90 psi

(2) What is the sprinkler package design rate? 100 gpm

(3) What is the wetted diameter (twice the distance the sprinkler throws water) of a sprinkler on the outer 100 feet of the system? N/A feet

(4) Please include a copy of the sprinkler package design information.

e. Crop(s) you intend to irrigate. Please note any planned crop rotations:

Fescue and native grass.

f. Please describe how you will determine when to irrigate and how much water to apply (particularly important if you do not plan a full irrigation).

Full Irrigation. The rate will vary as needed to sustain established vegetation.

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

DWR Form 1-100.25

Recreational Use Supplemental Sheet

RECREATIONAL USE SUPPLEMENTAL SHEET

File No. _____

Name of Applicant (Please Print): City of Derby

1. Please indicate type of recreational use (boating, fishing, swimming, etc.): Aesthetic amenity to park and storm water detention.

2. Please summarize how the water will be used and justify the quantity of water requested: _____
Water will be used to fill the pond to a static pool volume of 1295.5.

Recreational Use – Net Evaporable Loss of Pond: _____

$$\frac{20" \text{ Evaporable Loss}}{12 \frac{\text{in}}{\text{ft}}} \times 5.35 \text{ AC Pond Surface Area} = 8.92 \text{ AC - FT}$$

3. Please complete the following table showing estimated future water requirements:

ESTIMATED FUTURE WATER DIVERTED/STORED

NEXT 5 YEARS	WATER TO BE DIVERTED (ACRE-FEET OR GALLONS)
Year 1	8.92 AC-FT
Year 2	8.92 AC-FT
Year 3	8.92 AC-FT
Year 4	8.92 AC-FT
Year 5	8.92 AC-FT

Please attach any additional information, tables, or curves showing past, present and estimated future water requirements to substantiate the amount of water requested.

4. Please designate the legal description of the location where the water is to be used by providing the fractional part of the Section, Township and Range.

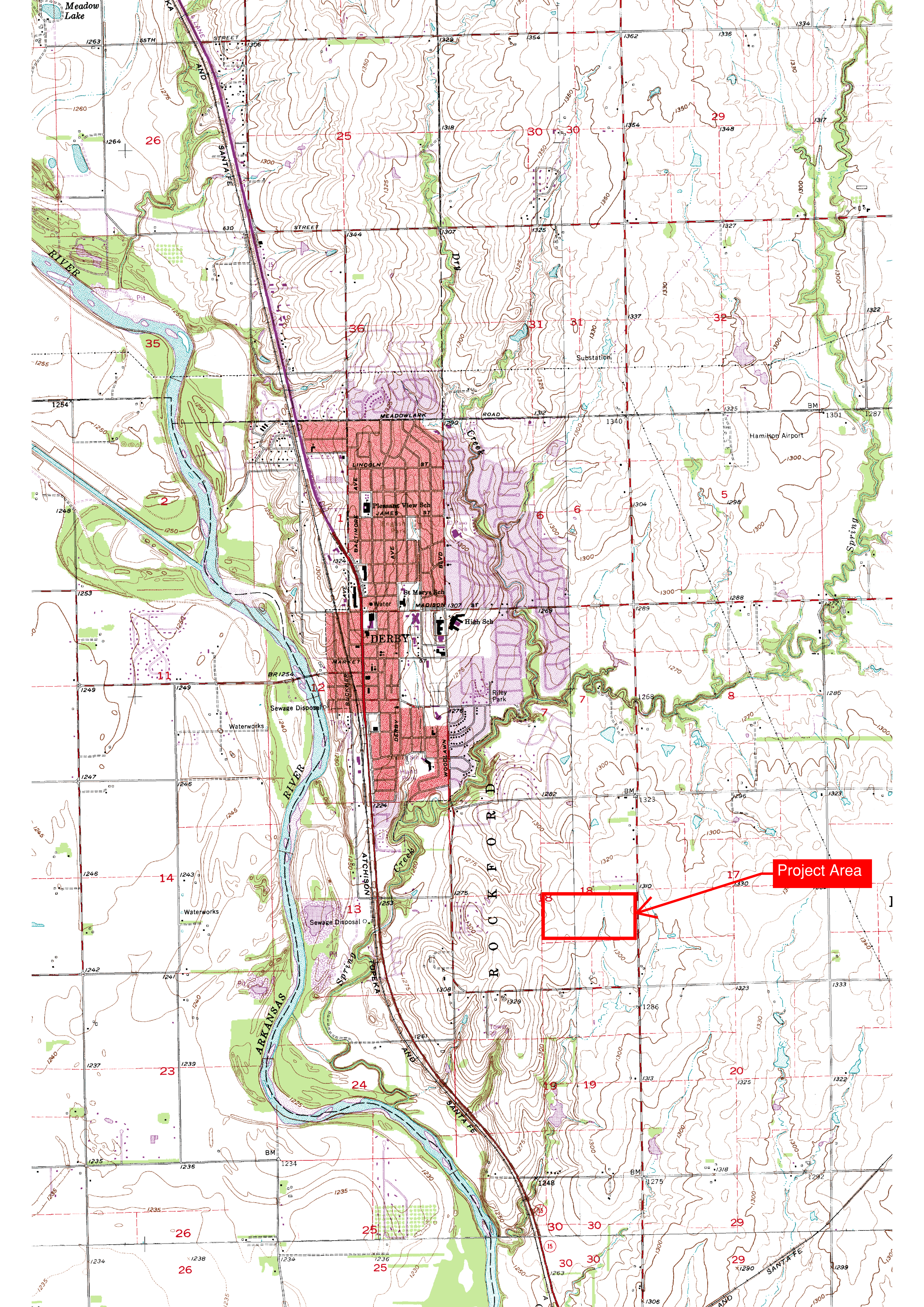
All water will be used in the N 1/2, SE1/4 of Section 18, T29S, R2E. See

attachment 3.

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

Attachment No. 1

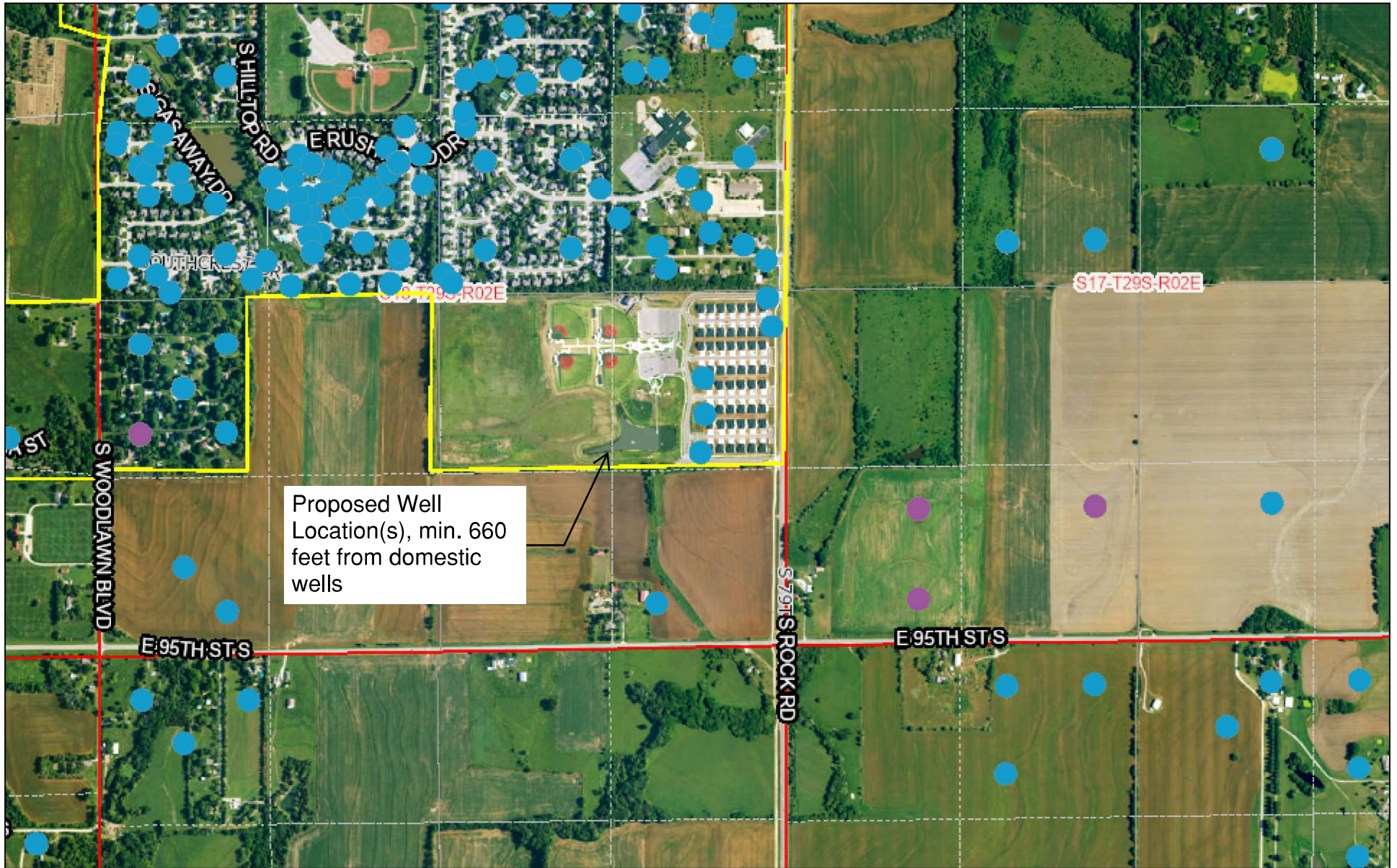
USGS Map



Attachment No. 2

Water Right Well Spacing Map

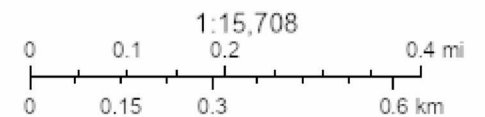
Dekarsky Park



10/7/2024, 9:43:22 AM

General Type

- Requires Rights
- Geothermal
- Domestic



City of Wichita, Sedgwick County, Esri, HERE, Garmin, INCREMENT P, USGS, METINASA, EPA, USDA

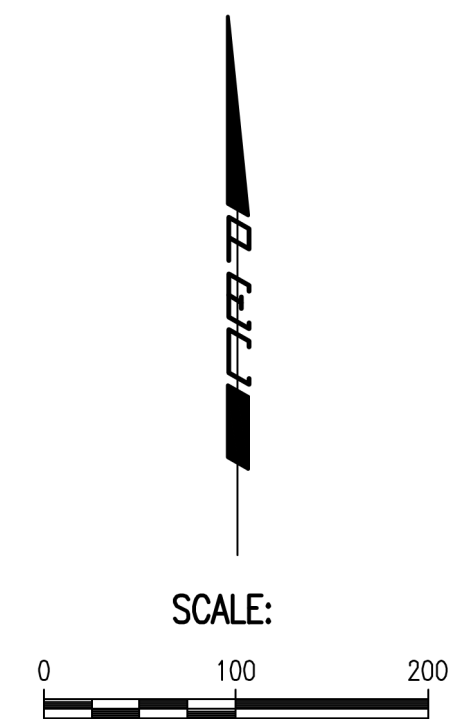
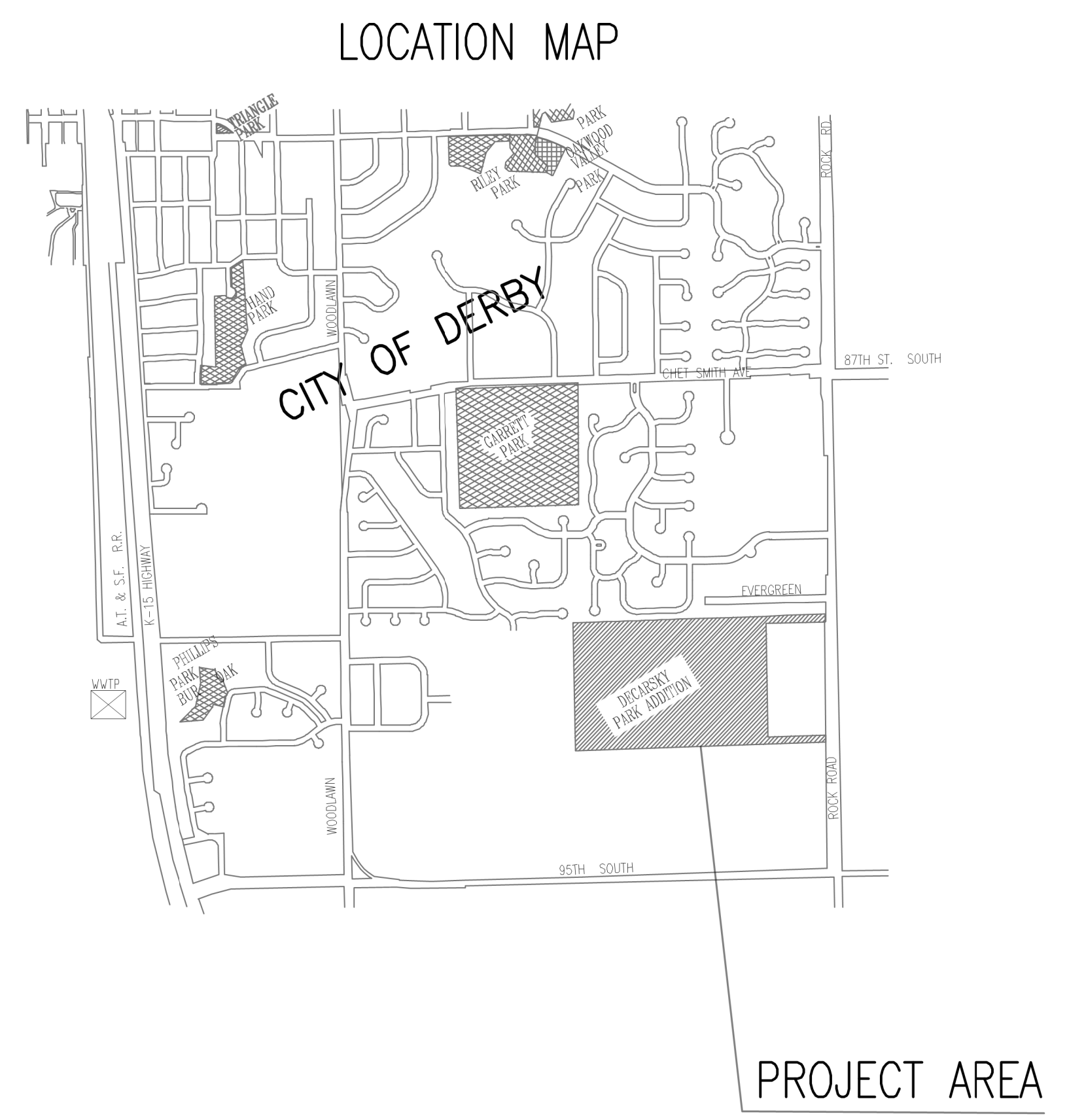
Attachment No. 3

Place of Use Map and Calculations

Saved: 04-16-2018 4:12:51 PM by GAGE SCHEER
 Plot Scale: 1:1 04-16-2018 4:13:04 PM by GAGE SCHEER
 U:\Wichita-Civil\2017\170828\000\Drawings\Miscellaneous\170828-000 Water Appropriation Areas



- LEGEND**
- RECREATIONAL PLACE OF USE (SURFACE AREA = 5.35 AC)
 - IRRIGATION PLACE OF USE (AREA = 44.64 AC)



No.	Revision	By	Date
CITY OF DERBY SEDGWICK COUNTY, KANSAS PLACE OF USE DECARSKY PARK ADDITION			
PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	Job No. 35-170828-000	Sht. 1 of 1	
Drawn by	Date		

Recreational Use – Net Evaporable Loss of Pond:

$$\frac{20" \text{ Evaporable Loss}}{12 \frac{\text{in}}{\text{ft}}} \times 5.35 \text{ AC Pond Surface Area} = 8.92 \text{ AC} - \text{FT}$$

Irrigation Use:

$$\frac{1.3 \text{ AC} - \text{FT}}{\text{AC}} \times 44.64 \text{ Irrigated AC} = 58.03 \text{ AC} - \text{FT}$$

Attachment No. 4

Well Driller's Log

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

November 7, 2024

CITY OF DERBY
611 N MULBERRY ROAD
DERBY KS 67037-3533

RE: Application, File No(s). **51349**

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. If you have any other questions, please contact our office at 785-564-6640 or your local Stafford Field Office at 620-234-5311. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

Kris Neuhauser
New Applications Lead
Water Appropriation Program