

**NOTICE OF INTENT TO MODIFY A PERMIT
AUTHORIZING THE USE OF WATER
FOR MUNICIPAL PURPOSES
IN DALLAS COUNTY, IOWA**

Notice is hereby given that pursuant to Iowa Code Chapter 455B, there is now on file with the Iowa Department of Natural Resources, 502 E. Ninth Street, Des Moines, Iowa 50319-0034, an application as described below.

The City of De Soto, Iowa DNR Log No. 34,371, requests a permit authorizing withdrawal of water from three existing and two newly-proposed alluvial wells associated with the South Raccoon River alluvium, one 44 feet and the others 50 feet deep, and the two new ones being approximately 50 feet deep, all located on land generally described as the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 18, T78N, R27W, all in Dallas County, Iowa, in the maximum amount of 67.0 million gallons per year at a maximum rate of 480 gallons per minute (~ 1.0 cubic feet per second) throughout each year for municipal purposes within and without the permittee's corporate limits consistent with its municipal distribution system and other provisions of law.

This permit modification represents the addition of two new service wells (alluvial wells) being added, as detailed above.

The analysis indicates that the requested amount of water is available, and can be used in a beneficial way.

The Department has determined that this use of water conforms to the relevant criteria (Iowa Code Chapter 455B and Iowa Administrative Code Chapter 567) and recommends the permit be granted. A copy of the summary report for the application is available upon request to the Department at the address listed above. Comments on the report and this use of water must be received by April 03, 2026, and should specify the log number 34,371.

(By Michael K. Anderson, P.E., Senior Environmental Engineer)

**IOWA DEPARTMENT OF NATURAL RESOURCES
WATER USE PERMIT SUMMARY REPORT**

Applicant: City of De Soto
PO Box 100
De Soto, IA 50069

Application Log No.: 34,371

The City of De Soto, Iowa DNR Log No. 34,371, requests a permit authorizing withdrawal of water from three existing and two newly-proposed alluvial wells associated with the South Raccoon River alluvium, one 44 feet and the others 50 feet deep, and the two new ones being approximately 50 feet deep, all located on land generally described as the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 18, T78N, R27W, all in Dallas County, Iowa, in the maximum amount of 67.0 million gallons per year at a maximum rate of 480 gallons per minute (~ 1.0 cubic feet per second) throughout each year for municipal purposes within and without the permittee's corporate limits consistent with its municipal distribution system and other provisions of law.

This permit modification represents the addition of two new service wells (alluvial wells) being added, as detailed above.

The analysis indicates that the requested amount of water is available, and can be used in a beneficial way.

1. The City of De Soto is located south of the South Raccoon River about one mile south of the US Highway 169 interchange on I-80 in south central Dallas County, Iowa. The 2010 census population is listed as 950 and it is projected that the population will increase to about 1150 during the ten year life of the water use permit. The requested quantity of water is within the acceptable range for this type of use and should provide adequate water resources for the projected growth in population. The increase will amount to an overall water usage of about 193 gallons per capita per day (gpcd).
2. Applicant's water source consists of existing wells tapping an alluvial aquifer, about 50 feet thick, associated with the Raccoon River and its tributaries. The Raccoon River has a drainage area of about 1,116 square miles at this location. Under normal conditions the aquifer will not be subject to depletion or experience an extended cone of depression as a result of water withdrawals made at the magnitude and rate requested by the Applicant.
3. According to department records, the nearest water user other than the Applicant which requires the diversion of water in sufficiently large quantity to require a water use permit is a gravel pit, located about 1 $\frac{1}{2}$ mile north of the Applicant's well field. Because this permittee is lowering the water level in its pit and discharging water to the river and because of the large separation distance, the department does not anticipate any impact upon this neighboring permitted water user from the Applicant's proposed use of water.
4. According to departmental records, the next nearest neighboring water user requiring the diversion of water in sufficiently large proportions to require a water use permit is a private water company with two alluvial wells, each about 50 feet deep, located about 4 miles north of the Applicant's withdrawal site. Because of the great separation distance and the Raccoon and North Raccoon Rivers recharging the aquifer, the department anticipates no impact upon these or other more distant permitted water users from the Applicant's proposed use of water.
5. According to department records, nearby privately owned wells could be located about 1 $\frac{1}{4}$ miles north and 1 $\frac{1}{4}$ miles west from the Applicant's wells. Although these neighboring wells are most likely finished in same aquifer as the Applicant's wells, because of the large separation distance with ample recharge and little drawdown, the department anticipates no significant interference with these or other neighboring properly constructed private wells from use of the Applicant's wells at the quantity and rate proposed. The department has received no allegations of public or private damage resulting from the use of water authorized under the predecessors to this permit. In any event, the interests of individuals using water for domestic purposes, as well as those persons

benefiting from the permits mentioned above, are amply protected, in the event of substantial injury, pursuant to Section 455B.271, Code of Iowa.

6. The applicant is using a reasonable amount of water in a beneficial manner (water for human consumption, normal distribution throughout the system, and for human waste assimilation). There is no evidence that the use of water pursuant to a permit granted in accordance this request will constitute a waste of the water resources of the State, will be incompatible with the state comprehensive plan for water resources, will impair the effect of pollution control laws of this State or the navigability of and navigable watercourse, or will be detrimental to the public interest or to the interests of property owners with prior or superior rights who might be affected.

THEREFORE:

The requested use of water conforms to the relevant criteria in Division III, Part 4, Chapter 455B, Code of Iowa and Chapter 52 of Part 567, Iowa Administrative Code. No adverse effect upon other water users is foreseen at this time. Following publication of notice and subject to revisions in response to comments that may be submitted, the attached draft permit should be issued for a period of ten years.

Water Supply Engineering
Date: February 27, 2026

**IOWA DEPARTMENT OF NATURAL RESOURCES
WATER USE PERMIT**

Permit issued to:	Permit Number:	5792-M5
CITY OF DE SOTO	Effective:	xxxxx
PO BOX 100	Expires:	xxxxx
405 WALNUT ST		
DE SOTO IA 50069		

The permittee is authorized to:

withdraw water from three existing and two newly-proposed alluvial wells associated with the South Raccoon River alluvium, one 44 feet and the others 50 feet deep, and the two new ones being approximately 50 feet deep, all located on land generally described as the SW ¼ of the NW ¼ of the SE ¼ of Section 18, T78N, R27W, all in Dallas County, Iowa, in the maximum amount of 67.0 million gallons per year at a maximum rate of 480 gallons per minute (~ 1.0 cubic feet per second) throughout each year for municipal purposes within and without the permittee's corporate limits consistent with its municipal distribution system and other provisions of law.

This authorization to withdraw water has been granted pursuant to the provisions of Part 4 of Division III of Chapter 455B, Code of Iowa, and Chapters 50, 51, and 52 of Part 567, Iowa Administrative Code, and is further subject to the general permit conditions within this permit.

Conditions of this permit may be appealed as provided in rule 567--50.9, Iowa Administrative Code. Appeal must be in writing and must be received at the Department of Natural Resources; Water Supply Engineering Section; 502 E 9th Street; Des Moines, Iowa 50309-4611 within thirty days of the date of the certification of the mailing of the permit.

FOR THE DIRECTOR:

By: _____ Date Executed: _____

cc: Field Office No. 5 {Des Moines}

(mka)

CERTIFICATE OF MAILING

On the date shown below, a copy of the foregoing permit was mailed to the Permittee and to each person entitled to receive a copy as provided by rule 567--50.8(2), Iowa Administrative Code.

Certified by (initials): _____ Date: _____

GENERAL PERMIT CONDITIONS

1. Permittee shall maintain accurate and up-to-date records of water use from said sources by means of water meters and submit them annually to the department. Additional records on pumping rated from said sources, water levels in said wells, and other data related to the regulation of this use of water shall be maintained and submitted as directed by the department.

2. Permittee is responsible for compliance with all applicable provisions of state law and the rules and regulations of this department and of federal and local health and water pollution control agencies in the operation of its wetland augmentation facilities and in the disposal of its wastes.
3. Permittee shall construct, maintain, and monitor observation wells, as directed by the department to define the effects of permittee's water withdrawals on groundwater resources or on other water users who might be affected by the withdrawals authorized herein.
4. Permittee shall submit to the department within 90 days of being notified by the department, or no later than the expiration date of this permit, whichever first occurs, a plan for implementing routine day-to-day water conservation measures and for implementing emergency water conservation measures during periods of water shortage. Until such a plan has been submitted to and approved by the department, permittee shall implement those emergency water conservation measures determined to be necessary by the department pursuant to Iowa Code Sections 455B.265 and 455B.266.
5. Existing wells shall not be replaced without notifying the Iowa Department of Natural Resources. Changes to the location, depth, source aquifer, or other physical features of said wells may require that this permit be modified to accommodate the changes.
6. Each proposed or replacement well authorized as a source of water in this permit must be equipped with an access port having a minimum diameter of three-fourths inch. The access port must be equipped with a threaded cap or plug. The access port must be located to allow insertion of a steel tape or electric probe into the well casing for measurement of water levels.
7. With respect to each proposed or replacement well authorized as a source of water in this permit, withdrawals of water may be made only after the permittee has made the following information available to the Iowa Geological Survey: well location, well log, casing and grouting schedule, results of yield tests, and cutting samples.
8. Once each spring prior to March 31, the permittee shall be responsible for accurately measuring the distances to water (static water level) from the access port in all permitted wells. The distance to water shall be submitted to the department annually as part of the records of water use.
9. This permit supersedes DNR H₂O Use permit # 5792-M4.

CAVEAT

Permittee is advised that pursuant to Section 455B.271, Code of Iowa, the authority to withdraw water provided by this permit may be modified, canceled or suspended in case of any breach of the terms or conditions herein, in case of any violation of state law pertaining to the permit, or if found necessary to prevent substantial injury to private or public interests.