

**NOTICE OF INTENT TO MODIFY A PERMIT
AUTHORIZING THE USE OF WATER
FOR MUNICIPAL PURPOSES
IN SAC 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, 6200 Park Avenue, Suite "200"; Des Moines, Iowa 50321, an application as described below.

The City of Odebolt, Iowa DNR Log Number 34,745, requests a newly-modified water use permit authorizing withdrawals of water from two Odebolt Creek alluvial aquifer wells, 30 and 42 feet deep, located on land generally described as the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of the Section 28, and from one Cambrian-Ordovician (Jordan Sandstone) aquifer well, 2,131 feet deep, located on land generally described as the NE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 34, T87N, R38W, Sac County, Iowa, in the maximum quantity of 60 million gallons per year at a maximum rate of 520 gallons per minute 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.

The proposed permit modification represents no change to the instantaneous pumping capacity, but an increase in maximum annual capacity from 55 million gallons per year to 60 million gallons per year to facilitate operational flexibility.

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 September 30, 2026, and should specify the Iowa DNR log number.

(By Michael K. Anderson, P.E.)

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

Applicant: City of Odebolt
P.O. Box 433
Odebolt IA 51458-0433

DNR Application Log No.: 34,745

The City of Odebolt, DNR Log Number 34,745, requests a newly-modified water use permit authorizing withdrawals of water from two Odebolt Creek alluvial aquifer wells, 30 and 42 feet deep, located on land generally described as the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of the Section 28, and from one Cambrian-Ordovician (Jordan Sandstone) aquifer well, 2,131 feet deep, located on land generally described as the NE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 34, T87N, R38W, Sac County, Iowa, in the maximum quantity of 60 million gallons per year at a maximum rate of 520 gallons per minute 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.

The proposed permit modification represents no change to the instantaneous pumping capacity, but an increase in maximum annual capacity from 55 million gallons per year to 60 million gallons per year to facilitate operational flexibility.

1. The source of water for Well #8 is the Cambrian-Ordovician Aquifer. This aquifer is composed of four different formations; the St. Lawrence, Jordan Sandstone, Prairie du Chien, and the St. Peter Sandstone. Well #8 solely withdraws water from the Jordan Sandstone Aquifer approximately 2,131 feet deep, at a maximum rate estimated at 450 gallons per minute.
2. The Department has not received any complaints regarding the permittee's water withdrawals, since the original permit was issued in July of 1986.
3. The Applicant's system is located in west central Iowa, in Sac County, neighboring the City of Lake View to the east. The town serves approximately 994 people. Iowa Highway 39 and 175 provide principal access to the community.
4. The additional water source is the Jordan Aquifer. Iowa Administrative Code Chapter 50.4(3)c states that water levels in the Cambrian-Ordovician (Jordan) aquifer are not to decline more than 200 feet from the 1977 baseline in any high-use area. The Iowa Geological Survey has found that increased pumping rates in the Lake Panorama area have not resulted in drawdowns that exceed 100 feet from 1978 to 2008. Using the projected water usage for the Lake Panorama Association, and utilizing the State's calibrated groundwater flow model (Visual MODFLOW), drawdowns are not projected to exceed 200 feet, from the 1977 baseline, in the year 2030.
5. The nearest neighboring water user which requires the diversion of water in sufficiently large quantities to require a water use permit is the City of Lake View. (Permit # 5134), approximately 6 miles east of the Applicants property. The City of Lake View's water source is from the buried channel aquifer, with a maximum permitted withdrawal rate of 700 gallons per minute at an annual maximum quantity of 150.0 million gallons per year. Due to the fact that the withdrawal source for the City is from a different aquifer and the Applicant's Well #8 withdrawal source is from deeper groundwater, approximately 2,131 feet below the surface, there is little likelihood that the City of Lake View will experience detectable impacts resulting from use of Applicant's well.
6. The Applicant provided the three nearest neighboring privately owned domestic wells. None these three or any other nearby privately-owned domestic wells use the Jordan Sandstone Aquifer. It is unlikely that properly constructed wells in the same or shallower aquifers will experience any significant impacts from the withdrawals by the Applicant. 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.

7. The applicant is devoting a reasonable amount of water to a beneficial use (Municipal usage including human consumption and human sanitation). There is no evidence that the use of water pursuant to a permit granted in accordance with the conclusions contained herein 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 rights who might be affected.

As outlined in rule 567 50.4(3)c., the Permittee may withdraw from the Jordan Sandstone well only when the groundwater potentiometric level in the Jordan Sandstone Aquifer is above a level from the 1978 baseline as determined from available Department records. The following table expresses the available Department records for these wells.

Table 1: Odebolt [Water Use Pmt #6408] Jordan Well Water Levels

Local Name	Well #8
Drill Date	8/12/1976
Well Elevation (ft)	1,410
1978 Jordan Water Level Elevation (ft)	1,055
Total Well Depth (ft)	2,131
Total Casing Depth (ft)	1,827
2025 Static Water Level Depth (ft)	340
2025 Pumping Water Level Depth (ft)	360
1978 Jordan Baseline Water Level Depth (ft)	355
Jordan Tier 2 Depth (1978 level -300 ft.)	655
Jordan Tier 3 Depth (1978 level -400 ft.)	755
Feet Above Tier 2 (Tier 2 – pumping)	+295
Feet Above Tier 3 (Tier 3 – pumping)	+395

Water levels were submitted to the Department during permit renewal. Consequently, the potentiometric level that governs this permit is ~ 360 feet. This permit is in compliance with this level, since the Jordan Tier 3 calculated level is 755 feet, or 395 feet above that.

THEREFORE:

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 five years.

Water Supply Engineering Section

Date: September 03, 2026

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

Permit issued to:

CITY OF ODEBOLT
MICHAEL GROTE
PO BOX 433
ODEBOLT IA 51458-0433

Permit Number:

6408-M5

Effective:

xxxx

Expires:

xxxx

The Permittee is authorized to:

withdraw water from two Odebolt Creek alluvial aquifer wells, 30 and 42 feet deep, located on land generally described as the NW ¼ of the SE ¼ of the Section 28, and from one Cambrian-Ordovician (Jordan Sandstone) aquifer well, 2,131 feet deep, located on land generally described as the NE ¼ of the NW ¼ of Section 34, T87N, R38W, Sac County, Iowa, in the maximum quantity of 60 million gallons per year at a maximum rate of 520 gallons per minute 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 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 IAC 50.9, Iowa Administrative Code. Appeal must be in writing and must be received at the Iowa Department of Natural Resources, Water Supply Engineering Section, 6200 Park Avenue, Suite "200" Des Moines, Iowa 50321 within thirty days of the date of the certification of the mailing of the permit.

FOR THE DIRECTOR:

By: _____ Date Executed: xxxxx

cc: Permit File 6408

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 monthly water use from each authorized source and submit them annually to the Department.
2. Permittee may be required to submit other information related to the regulation of this use of water as directed by the Department.
3. Permittee shall be responsible for securing and complying with all applicable provisions of state law, the rules and regulations of this Department, and of all federal and local health and water pollution control agencies in the operation of this facility.
4. Permittee shall be responsible for notifying the Department when there are changes to any conditions and authorizations given in this permit, including additional water source(s), well(s), intake(s), an expansion of the facility, or any other listed condition.
5. 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.
6. Each well authorized as a source of water in this permit must be constructed to allow for accurate measurement of water levels.
7. Withdrawals from permitted wells may be made only after the Permittee has made the following information available to the Department: well location(s), well log(s), and results of yield tests. Required chip samples shall be submitted to the Iowa Geological Survey.
8. Permittee shall be responsible for accurately measuring depth to water under non-pumping (static) conditions, depth to water under pumping conditions, and pumping rate(s) for all active wells listed in this permit, at a minimum of one measurement per year. These records shall be submitted annually to the Department.
 - a. As outlined in rule 567 50.4(3)c., the Permittee may withdraw from the Jordan Sandstone well only when the groundwater potentiometric level in the Jordan Sandstone Aquifer is above a level from the 1978 baseline as determined from available Department records. The following table expresses the available Department records for these wells.

Table 1: Odebolt [Water Use Pmt #6408] Jordan Well Water Levels

Local Name	Well #8
Drill Date	8/12/1976
Well Elevation (ft)	1,410
1978 Jordan Water Level Elevation (ft)	1,055
Total Well Depth (ft)	2,131
Total Casing Depth (ft)	1,827
2025 Static Water Level Depth (ft)	340
2025 Pumping Water Level Depth (ft)	360
1978 Jordan Baseline Water Level Depth (ft)	355
Jordan Tier 2 Depth (1978 level -300 ft.)	655
Jordan Tier 3 Depth (1978 level -400 ft.)	755
Feet Above Tier 2 (Tier 2 – pumping)	+295
Feet Above Tier 3 (Tier 3 – pumping)	+395

Water levels were submitted to the Department during permit renewal. Consequently, the potentiometric level that governs this permit is ~ 360 feet. This permit is in compliance with this level, since the Jordan Tier 3 calculated level is 755 feet, or 395 feet above that.

9. 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.
10. This permit supersedes Water Use Permit No. 6408-R4.

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.